CURRICULUM VITÆ

1 Personal Data

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- Birth: December 31, 1958, Ft. Worth, Texas, U.S.A.
- Citizenship: U.S.A.
- Present Position: David Ross Boyd Professor of Physics at the University of Oklahoma at Norman.
- Area of Research: Experimental High Energy Physics
- Societies: American Physical Society
- Advisors:
  - Graduate Advisor: C. D. Buchanan (U.C.L.A.)
  - Postdoctoral Advisors: R. Kofler (Univerity of Massachusetts),
    S. Hertzbach (University of Massachusetts)
- Awards:
  - 2006: Carlisle Mabrey and Lurine Mabrey Presidential Professorship, University of Oklahoma
  - 2002: Regents Award for Superior Teaching, University of Oklahoma
  - 2000: BP-Amoco Foundation Good Teaching Award, University of Oklahoma
  - 1999: OU Student Association Outstanding Professor, College of Arts and Sciences, University of Oklahoma
  - 1998: Junior Faculty Research Award, University of Oklahoma
  - 1996: Junior Faculty Research Award, University of Oklahoma

2 Education

- **1988**: Received a Ph.D. in Experimental High Energy Physics from the University of California at Los Angeles under the direction of Professor Charles D. Buchanan. Degree requirements included the completion of a dissertation entitled "A Study of Λ Polarization and ϕ Spin Alignment in e^+e^- Annihilation at $\sqrt{s} = 29\,\mathrm{GeV}$ as a Probe of Color Field Behavior." The research was performed using the TPC detector on the PEP ring at SLAC.
- **1983**: Obtained a Masters Degree in Physics from the University of California at Los Angeles.
- **1981**: Graduated *summa cum laude* from Biola University in La Mirada, California with a major in Physical Science and a minor in Mathematical Science.

3 Positions

- **2012-Present**: David Ross Boyd Professor, University of Oklahoma, Norman, OK; Member of DØ Collaboration, Fermi National Accelerator Laboratory, Batavia, IL; Member of ATLAS Collaboration, European Laboratory for Particle Physics (CERN), Geneva, Switzerland.
- **2004-2012**: Associate Director, Oklahoma Center for High Energy Physics.
- **2010-2012**: Professor, University of Oklahoma, Norman, OK; Member of DØ Collaboration, Fermi National Accelerator Laboratory, Batavia, IL; Member of ATLAS Collaboration, European Laboratory for Particle Physics (CERN), Geneva, Switzerland.
- **2001-2010**: Associate Professor, University of Oklahoma, Norman, OK; Member of DØ Collaboration, Fermi National Accelerator Laboratory, Batavia, IL; Member of ATLAS Collaboration, European Laboratory for Particle Physics (CERN), Geneva, Switzerland.
- **1995-2001**: Assistant Professor, University of Oklahoma, Norman, OK; Member of DØ Collaboration, Fermi National Accelerator Laboratory, Batavia, IL; Member of ATLAS Collaboration, European Laboratory for Particle Physics (CERN), Geneva, Switzerland.
- **1992-1995**: Senior Research Associate, University of Massachusetts, Amherst, MA; Member of SLD Collaboration, Stanford Linear Accelerator Center, Stanford, CA.
- **1988-1992**: Research Associate, University of Massachusetts, Amherst, MA; Member of SLD Collaboration, Stanford Linear Accelerator Center, Stanford, CA; Member of TPC/2γ Collaboration, Stanford Linear Accelerator Center, Stanford, CA.
- **1983-1988**: Research Assistant, University of California, Los Angeles, CA; Member of TPC/2γ Collaboration, Stanford Linear Accelerator Center, Stanford, CA.
- **1982-1983**: Teaching Assistant, University of California, Los Angeles, CA.

4 Experience

4.1 1995-Present: Professor, University of Oklahoma, Norman

4.1.1 Research Experience

- **Data Analysis**
  - **Particle Searches:** Searched for high mass particles decaying to the final state $WW \to e\nu\mu\nu$ using data from the ATLAS detector taken at 13 TeV.
  - **Higgs Properties:** Measured cross section for Standard Model Higgs production with data from the ATLAS detector taken at 8 and 13 TeV using the decay mode $H \to WW \to \ell\nu\ell\nu$ using both the ggf and VBF production modes.
  - **Higgs Decay:** Analyzed data from ATLAS detector taken at 8 and 13 TeV in a search for the decay of the Higgs particle using the decay mode $H \to WW \to \ell\nu qq$.
  - **Top Quark Mass:** Analyzed data from ATLAS detector taken at 7 and 8 TeV to measure the top quark mass based on the measured cross section.
  - **Rapidity Gap Fraction:** Analyzed data from ATLAS detector to measure the fraction of top anti-top events that contain a large rapidity gap with no extra jets.
  - **DØ QCD Co-Convener:** (2010-2012) Coordinate and oversee all QCD analysis for the DØ collaboration.
  - **Dijet Mass Spectrum:** Analyzed data from run 2 of the Tevatron to measure the dijet cross section as a function of invariant mass and rapidity. Published in Physics Letters B.
  - **Branching Fraction of $\mathbf{B^0 \to \mu^+\mu^-\pi^+\pi^-\pi^+\pi^-}$:** Analyzed data from run 2 of the Tevatron to determine if a more precise measurement of certain branching fractions of B mesons was possible.
  - **Production of Direct Photons:** Analyzed data from the Run-1c taken at the Fermilab Tevatron at $\sqrt{s} = 630$ GeV with the DØ detector. A measurement of the cross section for production of direct photons probes the parton-parton interaction without the ambiguities associated with jet fragmentation and energy measurements. This analysis was published in Physical Review Letters.
  - **Search for Magnetic Monopoles:** Conducted an experiment at the University of Oklahoma searching for magnetic monopoles which may have been created at the Fermilab Tevatron and were subsequently trapped in material surrounding the beampipe. The material was shipped to Oklahoma, and we used a Superconducting Quantum Interference Device (SQUID) to look for monopole signatures. This analysis was published in Physical Review Letters and Physical Review D.
- **Software**
  - **Track Reconstruction Group Convener:** (2004-2007) Oversee and coordinate all aspects of offline track reconstruction for the collaboration, including developing performance standards and upgrades.
  - **Track Reconstruction Performance Software:** Developed standardized software to determine track reconstruction performance, including tracking efficiency and purity. This software was used for a collaboration tracking challenge to determine which reconstruction algorithms are most effective.
- **Hardware**

- **ATLAS SONAR test:** Use speed of sound measurements to determine gas mixture in ATLAS inner detector.
- **DØ Silicon Strip Testing Coordinator:** Led the effort at the University of Oklahoma to test the physical characteristics of silicon microstrip detectors which were fabricated into a silicon vertex detector for the DØ experiment at the Fermi. We developed a number of new techniques to characterize silicon detectors. This effort involved supervision of a number of graduate and undergraduate students.
- **DØ Silicon Microstrip Tracker Production Director:** Assisted in overseeing various aspects of the production and fabrication of the Silicon Microstrip Tracker.

- **DØ Service**
  - **Chairman of QCD Editorial Board:** (2008-2010) Chaired editorial board that performed internal evaluation of all QCD physics.
  - **QCD Editorial Board:** (2002-2007,2012-2014) Member of editorial board that performed internal evaluation of all QCD physics.
  - **DØ Speaker's Bureau** (1998-2006): Member of Speaker's Bureau responsible for assigning individuals to give conference talks regarding DØ results.
  - **Momentum Scale Task Force** (2005-2007): Member of committee studying the momentum scale, material, and alignment in the DØ detector.
  - **Data Acquisition Expert** (2002): Served as on-line data acquisitions expert during the early part of Run II.
  - **Track Reconstruction Review Committee** (1999-2002): Member of committee reviewing track reconstruction algorithms and making recommendations to spokespersons regarding options and timescales for completing global tracking software.
  - $\boldsymbol{R_{23}}$ **Editorial Board:** (1997-2000) Member of editorial board that performed internal evaluation of a measurment of $R_{23} = \frac{\sigma(p\overline{p}\rightarrow\geq 3\ jets)}{\sigma(p\overline{p}\rightarrow\geq 2\ jets)}$. This analysis has been completed and is being submitted to PRL.

- **Professional Service**:
  - EPJC: Reviewed articles for publication in the European Physical Journal C (2013)
  - OTKA: Reviewed grant proposals for the Hungarian Scientific Research Fund (2013, 2016, 2018)
  - CFI: Reviewed grant proposals for the Canada Foundation for Innovation (2003, 2005-2008)
  - NSF: Reviewed grant proposals (2008 - 2010)
  - DOE: Reviewed grant proposals (2008 - 2012)
  - CRDF: Reviewed grant proposal for the U.S. Civilian Research and Development Foundation (2004)

4.1.2 Teaching Experience

- **Physics Classes:**
  - **Physics 1205 and 1215: Introductory Physics for Physics Majors** (2003-2006, 2007-2008, 2019): These classes provide a one year introductory physics course covering mechanics, waves, electricity and magnetism, and thermodynamics. The class usually has between 20 to 40 students.

- **Physics 1114: Introductory Physics for Non-Sciene Majors** (2012-2013, 2018, 2020): A one semester general education class for non science majors which may include topics of mechanics, waves, electricity and magnetism, thermodynamics, and modern physics. The class usually has between 100 to 2000 students. Interactive techniques in class and Web based instruction and testing are used.
- **Physics 2514 and 2524: Physics for Engineering and Science Majors** (2000-2001, 2020-2022): This class is a one year introductory physics course covering mechanics, waves, electricity and magnetism, optics, and thermodynamics. The class usually has between 200 to 300 students enrolled in the lecture section. A number of teaching innovations have been incorporated into the classroom to enhance learning. These include interactive techniques in a large classroom and Web based interactive questions.
- **Physics 2414 and 2424: Physics for Life Science Majors** (1996-1999, 2001-2002, 2006-2007, 2009-2011, 2013-2019, 2022-2024): This class is a one year introductory physics course covering mechanics, waves, electricity and magnetism, optics, and modern physics. The class usually has between 200 to 300 students enrolled in the lecture section. A number of teaching innovations have been incorporated into the classroom to enhance learning. These include interactive techniques in a large classroom and Web based interactive questions.
- **Physics 5970 and 5001: Introduction to Research** (1997, 2002-2005, 2010, 2017-2021): A class which introduces new graduate students to research being conducted by faculty in the department, as well as an introduction to teaching technique and requirements.

- **Quarknet Co-Coordinator** (1999-2021): Coordinated NSF and DOE sponsored Quarknet effort at the Univesity of Oklahoma. Quarknet is a national program for training and equipping high school teachers to teach and use elementary particle physics research in their classroom.
- **Teaching Assistant Training** (1997-2004): Instructed incoming teaching assistants in the use of various interactive teaching techniques for the classroom. This training was conducted for all new teaching assistants at the University of Oklahoma.
- **Capstone Project Supervisor** (1997-1998, 2005-2008, 2012-2013, 2019-2022): Supervised Senior Capstone Project for students involving analysis of DØ data or ATLAS data.

- **Graduate Students:**

Student	Position	Department	Status
J.D. Nichols	Advisor	Ph.D., Physics	In Progress
Mayuri Kawale	Advisor	Ph.D., Physics	In Progress
Bijay Shrestha	Advisor	Ph.D., Physics	Completed 2024
Renae Wall	Committee Member	Ph.D., Astrophysics	Completed 2024
James DerKacy	Committee Member	Ph.D., Astrophysics	Completed 2022
Nathan Grieser	Advisor	Ph.D., Physics	Completed 2020
Coulton Johnson	Advisor	M.S., Physics	Completed 2019
David Shope	Advisor	Ph.D., Physics	Completed 2019
Qing Wang	Committee Member	Ph.D., Physics	Completed 2019
Yu-Ting Shen	Committee Member	Ph.D., Physics	Completed 2018
Othmane Rifki	Committee Member	Ph.D., Physics	Completed 2017
Michael Savoy	Committee Member	Ph.D., Physics	Completed 2017
Benjamin Pearson	Advisor	Ph.D., Physics	Completed 2016
David Bertsche	Committee Member	Ph.D., Physics	Completed 2016
Carolyn Bertsche Bradley	Advisor	Ph.D., Physics	Completed 2015
Mandy Rominsky	Advisor	Ph.D., Physics	Completed 2009
Ike Hall	Committee Member	Ph.D., Physics	Completed 2007
Xiaojian Zhang	Committee Member	Ph.D., Physics	Completed 2004
Matthew Price	Advisor	M.S., Physics	Completed 2000
Jesse Cooper	Committee Member	Ph.D., Biochemistry	Completed

4.1.3 Service Experience

- **Member of Faculty Senate** (2008-2011): Elected as one of the 50 members of the facutly senate representing the University of Oklahoma faculty and excercising legislative responsibilities within the university.
- **Member of Academic Misconduct Committee** (2007-present): Member of board reviewing cases of alleged student academic misconduct.
- **OU Speaker's Service** (1999-Present): Representing the University of Oklahoma in the presentation of public lectures on Particle Physics given throughout Oklahoma and Texas.
- **Physics and Astronomy Department Committees** (1995-Present): Member of committees within the University of Oklahoma Physics and Astronomy:
  - Bridge Committe (2022-2023)
  - Colloquium Coordinator (2024)
  - Chairman, Graduate Studies Committee (2017-2022)
  - Assessment Committee (2017-2022)
  - Chairman, Undergraduate Studies Committee (2011-2016)
  - Research Experience for Undergraduates (2011-2024)
  - Policies and Procedures (2009-2010)
  - Needs (1995-1996), Chairman (2000-2011)
  - Graduate Recruiting (1997-2005)
  - Graduate Studies (1996-1997)
  - Experimental Facilities (1995-1998, 2016)

  - Computing (1995-2000)
  - New Building Committee (1997, 1998)
  - Undergraduate Studies (1999, 2000-2008, 2016-2017,2024)
  - Library (1999-2000)
  - Lin Symposium (2000)

- **Faculty Secretary** (1996–1997): Department of Physics and Astronomy
- **Graduate Recruiting Poster** (1996): Designed and coordinated all aspects of the production of departmental graduate recruiting poster.

4.2 1988-1995: Research Associate, University of Massachusetts, Amherst

4.2.1 Software Experience

- **Charged Track Reconstruction Group Leader:** Proposed, organized, and coordinated an effort to redesign the charged particle track reconstruction for use with an upgraded vertex detector. The upgraded detector was capable of independent track finding allowing efficient track reconstruction in the SLD drift chambers. Led a team of research associates and graduate students to develop new drift chamber and vertex detector pattern recognition algorithms. In addition to overseeing this effort, my contributions included:

  - Developed a Geant-based Monte Carlo simulation of the SLD vertex detector upgrade which was used to optimize the detector design.
  - Developed and wrote new tracking algorithms to be used for independent pattern recognition in the upgraded vertex detector.

- **Vertex Detector Offline Group Leader:** Coordinated all effort for the offline reconstruction software relating to the SLD vertex detector composed of 480 CCD devices. In addition to overseeing the work of four research associates and two graduate students, my contributions included:

  - Developed a Geant-based Monte Carlo simulation of the SLD vertex detector including the response of the detector to charged particles, a simulation of the associated electronics, and an accurate representation of all material associated with the detector. This simulation was completed at an early stage in the design of the vertex detector and was used to optimize the design parameters.
  - Developed and wrote all software used to reconstruct energy clusters and charged particle tracks in the SLD vertex detector.
  - Developed and wrote event display software to view SLD vertex detector reconstruction on three dimensional graphical devices.

- **Chairman of DST Committee:** Chairman of the committee which designed the data structure used for physics analysis by the SLD collaboration.

4.2.2 Hardware Experience

- **Assembly of the SLD Vertex Detector:** Assisted in assembling and testing the SLD CCD-based vertex detector. The detector was originally fabricated in the United Kingdom, and was then disassembled and shipped to SLAC. The project included testing the charge transfer efficiency of the CCD's, reassembling the components, and mounting the detector on the SLD beam pipe.

4.2.3 Data Analysis Experience

- **Chairman of the QCD Heavy Quark Working Group:** Responsible for analysis and publication of QCD physics using tagged heavy quark events. The following analysis came from this group under my direction:

  - A measurement of the charged multiplicity of $Z^0 \to b\overline{b}$ events published in Phys. Rev. Lett.
  - A measurement of the flavor independence of the ratio of α_s published in Phys. Rev. D.

- **Chairman of the Vertex Reconstruction Working Group:** Proposed and organized a physics working group responsible for developing methods to reconstruct three dimensional topological vertices with the SLD vertex detector and coordinating physics analysis effort which exploited these techniques. A number of algorithms were developed and a measurement of the average B hadron lifetime was published.

- **Analysis Topics:** Contributed to a number of other analysis topics including:

  - A measurement of $R_b = \frac{\Gamma(Z^0 \to b\bar{b})}{\Gamma(Z^0 \to \text{hadrons})}$. Developed the original SLD analysis for tagging $Z^0 \to b\overline{b}$ events.
  - A measurement of the $Z^0 \to q\bar{q}q\bar{q}$ cross section. Developed analysis techniques aimed at making the first measurement of the cross section $Z^0 \to b\overline{b}b\overline{b}$.

4.3 1983-1988: Research Assistant, UCLA

4.3.1 Software Experience

- **TPC Track Pattern Recognition:** Developed and wrote the pattern recognition package used by the TPC/2γ collaboration to reconstruct charged tracks. This was a three-dimensional pattern recognition algorithm which used TPC wires to guide the search for points on a specific track.

- **Incorporated Quark Spin Effects into Jetset 5.3:** A measurement of the polarization of λ hyperons and ϕ mesons required that quarks produced by the fragmentation process have a particular transverse spin and that hadrons produced from these quarks decay with the proper angular distribution. Because Jetset 5.3 had no mechanism for creating polarized quarks, or decaying particles according to their polarization, these algorithms were integrated into the Lund Monte Carlo.

4.3.2 Hardware Experience

- **System Manager for the Pole Tip Calorimeter:** Maintained all hardware and software aspects of the Pole Tip Calorimeter (PTC), a lead-gas proportional wire chamber used for measurement of low-angle electromagnetic showers. This included locating and disconnecting broken wires, diagnosing and fixing electronics problems on PTC mother boards, installing software driven high voltage control boards, and upgrading high voltage control software.

- **PTC Trigger Upgrade:** Designed a logic circuit which modified the PTC trigger from a simple energy threshold to accept only electromagnetic showers with large angular separation and minimum energy. Selected and purchased the appropriate chips, then modified and wire-wrapped PTC trigger boards to incorporate this new design. All modifications were extensively tested and incorporated into the default TPC/2γ trigger.

4.3.3 Data Analysis Experience

- **Conducted Research Studying Quark Production Spin Effects:** The Lund model of fragmentation predicts that quarks produced during the fragmentation process will have a preferred spin direction which is a function of their transverse momentum. When s quarks are produced in the fragmentation process and combine with other quarks to produce Λ baryons or ϕ mesons, the original quark spin may be evident in the angular decay distributions of the Λ and ϕ. This research was an attempt to observe the underlying spin of the quarks. Because quark spin effects are predicted by Lund theory, but not explicitly produced in the Lund Monte Carlo, These effects were incorporated into the Monte Carlo to determine the magnitude of the expected signal. Non-zero transverse Λ polarization was observed with a significance of about two standard deviations and a sign predicted by the Lund theory.

4.3.4 Teaching Experience

- **Teaching Assistant, University of California, Los Angeles:** Directed classroom lectures, discussion sessions, and labs for various courses, including undergraduate Mechanics, E&M, and Elementary Particle Physics.
- **Tour Guide, Stanford Linear Accelerator Center:** Conducted academic tours of the Stanford Linear Accelerator Center. These tours included an hour lecture explaining the current status of high energy physics at SLAC and elsewhere.
- **Guest High School Teacher:** Taught a series of classes in High Energy Physics and Cosmology at Los Gatos High School. These classes were conducted for all physics students and presented at an introductory college level.

5 Funding

- **2024**
  - DOE Grant with Gutierrez, Abbott, Stupak: (4/1/24-3/31/27) $1,500,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2023-3/31/2026): $385,852
  - Southwest Tier 2 OU Contribution for ATLAS with Gutierrez, Abbott (2/1/22 - 1/31/27): $525,000
  - ATC grant for J.D. Nichols work at ANL (3/1/24-2/28/25): $11,880
- **2023**
  - DOE Grant Experimental portions with Gutierrez, Abbott, Stupak: (4/1/21-3/31/22) $510,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2023-3/31/2026): $385,852
  - Southwest Tier 2 OU Contribution for ATLAS with Gutierrez, Abbott (2/1/22 - 1/31/27): $525,000
- **2022**
  - DOE Grant Experimental portions with Gutierrez, Abbott, Stupak: (4/1/21-3/31/22) $510,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2020-3/31/2023): $326,367
  - Southwest Tier 2 OU Contribution for ATLAS with Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000
- **2021**
  - DOE Grant Experimental portions with Gutierrez, Abbott, Stupak: (4/1/20-3/31/21) $510,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2020-3/31/2023): $326,367
  - Southwest Tier 2 OU Contribution for ATLAS with Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000
- **2020**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (4/1/19-3/31/20) $420,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2020-3/31/2023): $326,367
  - Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000
- **2019**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (4/1/18-3/31/19) $420,000.00

- NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2017-3/31/2019): $292,071
- Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000

- **2018**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/17-4/30/18) $500,000.00
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2017-3/31/2019): $292,071
  - Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000

- **2017**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/16-4/30/17) $500,000.00
  - Quarknet High School Teacher program with Gutierrez: $84,625.00 (9/15/07 - 8/31/17)
  - NSF REU/RET Physics Site at the University of Oklahoma with Abbott, (4/1/2017-3/31/2019): $292,071
  - Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/17 - 1/31/22): $525,000

- **2016**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/15-4/30/16) $585,000.00
  - CC*IIE Engineer: A Model for Advanced Cyberinfrastructure Research and Education Facilitators with Henry, Skubic, Cutierrez, Abbott and more (10/1/14 - 9/30/16): $400,000
  - NSF REU/RET Physics Site at the University of Oklahoma with Abraham, (6/1/2014-5/31/2017): $189,417
  - Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/12 - 1/31/16): $210,000

- **2015**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/14-4/30/15) $585,000.00
  - CC*IIE Engineer: A Model for Advanced Cyberinfrastructure Research and Education Facilitators with Henry, Skubic, Cutierrez, Abbott and more (10/1/14 - 9/30/16): $400,000
  - NSF REU/RET Physics Site at the University of Oklahoma with Abraham, (6/1/2014-5/31/2017): $189,417
  - Southwest Tier 2 OU Contribution for ATLAS with Skubic, Gutierrez, Abbott (2/1/12 - 1/31/16): $210,000
  - Quarknet High School Teacher program with Gutierrez: $19,500.00 (9/1/15 - 9/1/16)

- **2014**

- DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/14-4/30/15) $585,000.00
- Southwest Tier 2 Proposal for ATLAS with Skubic, Gutierrez, Abbott (9/1/11 - 1/31/16): $525,000
- Quarknet High School Teacher program with Gutierrez: $12,500.00 (9/1/14 - 9/1/15)
- MRI: Development for a Novel Pixel Tracking Layer for ATLAS, with Abbott, Guteirrez, Skubic (10/1/10 - 9/30/15): $340,000
- Maintenance and Operation of the ATLAS Detector with Skubic, Gutierrez, Abbott, DOE through BNL Subcontract (10/1/14–9/30/15) $46,000
- NSF REU/RET Physics Site at the University of Oklahoma with Abraham, (6/1/2011-5/31/2014): $303,000

- **2013**
  - DOE Grant DE-SC0009956 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/13-4/30/14) $540,000.00
  - Southwest Tier 2 Proposal for ATLAS with Skubic, Gutierrez, Abbott (9/1/11 - 1/31/16): $550,000
  - Quarknet High School Teacher program with Gutierrez: $12,500.00
  - MRI: Development for a Novel Pixel Tracking Layer for ATLAS, with Abbott, Guteirrez, Skubic (10/1/10 - 9/30/14): $340,000
  - NSF REU/RET Physics Site at the University of Oklahoma (6/1/2011-5/31/2014): $303,000 with Abraham
  - Aquisition of Extensible Petascale Storage for Data Intensive Research (11/1/10 - 10/31/13): $792,925 with H. Neeman et.al.

- **2012**
  - DOE Grant DE-FG02-04ER41305 Experimental portions with Skubic, Gutierrez, Abbott: (5/1/12-4/30/13) $507,000.00
  - Southwest Tier 2 Proposal for ATLAS with Skubic, Gutierrez, Abbott (9/1/11 - 1/31/16): $550,000
  - DOE Grant through Fermilab: $18,000
  - Quarknet High School Teacher program with Gutierrez: $12,500.00
  - MRI: Development for a Novel Pixel Tracking Layer for ATLAS, with Abbott, Guteirrez, Skubic (10/1/10 - 9/30/14): $340,000
  - NSF REU/RET Physics Site at the University of Oklahoma (6/1/2011-5/31/2013): $283,000 with Abraham
  - Aquisition of Extensible Petascale Storage for Data Intensive Research (11/1/10 - 10/31/13): $792,925 with H. Neeman et.al.

- **2011**
  - DOE Grant DE-FG02-04ER41305 Experimental portions with Skubic, Gutierrez, Abbott: $542,000.00
  - Southwest Tier 2 Proposal for ATLAS with Skubic, Gutierrez, Abbott (9/1/05 - 12/31/11): $400,000
  - DOE Grant through Fermilab: $18,000

- Quarknet High School Teacher program with Gutierrez: $12,500.00
- MRI: Development for a Novel Pixel Tracking Layer for ATLAS, with Abbott, Guteirrez, Skubic (10/1/10 - 9/30/14): $340,000
- NSF REU/RET Physics Site at the University of Oklahoma (6/1/2011-5/31/2013): $283,000 with Abraham
- Aquisition of Extensible Petascale Storage for Data Intensive Research (11/1/10 - 10/31/13): $792,925 with H. Neeman et.al.

- **2010**
  - DOE EPSCoR Grant including Regents and VPR match for OU Subcontract and Supplemental Funding (8/15/07 - 8/14/2011): $1,322,344
  - DOE Grant DE-FG02-04ER41305 Experimental portions with Skubic, Gutierrez, Abbott: $528,000.00
  - DOE Tier 2 Grant for ATLAS with Skubic, Gutierrez, Abbott (9/1/05 - 12/31/11): $400,000
  - DOE Grant through Fermilab: $18,000
  - ARRA Tier 3 Funding: $20,000
  - NSF Quarknet High School Teacher program with Gutierrez: $10,000.00
  - MRI: Development for a Novel Pixel Tracking Layer for ATLAS, with Abbott, Guteirrez, Skubic (10/1/10 - 9/30/14): $340,000
  - NSF REU/RET Physics Site at the University of Oklahoma (6/1/2011-5/31/2013): $283,000 with Abraham
  - University of Oklahoma Contribution to OSG Software Development: $50,000
  - Aquisition of Extensible Petascale Storage for Data Intensive Research (11/1/10 - 10/31/13): $792,925 with H. Neeman et.al.

- **2009**
  - D0E EPSCoR Grant including Regents match for OU Subcontract and Supplemental Funding: $321,603
  - DOE Grant DE-FG02-95ER40923 Experimental portions with Skubic, Gutierrez, Abbott: $458,200.00 item DOE Tier 2 Grant for ATLAS with Skubic, Gutierrez, Abbott: $68,000.00
  - DOE Grant through Fermilab: $18,000
  - DOE Grant for ILC Tracking: $10,509
  - NSF Quarknet High School Teacher program with Gutierrez: $6600.00
  - Proposal for Inner Detector Optical Link with Abbot, Guteirrez, Skubic: $24,045.

- **2008**
  - D0E EPSCoR Grant including Regents match for OU Subcontract: $204,631
  - DOE Grant DE-FG02-95ER40923 Experimental portions with Skubic, Gutierrez, Abbott: $486,000.00 item DOE Tier 2 Grant for ATLAS with Skubic, Gutierrez, Abbott: $68,000.00
  - DOE Grant through Fermilab: $18,000
  - DOE Grant for ILC Tracking: $10,509

- NSF Quarknet High School Teacher program with Gutierrez: $4000.00
- Proposal for Inner Detector Optical Link with Abbot, Guteirrez, Skubic: $24,045.

- **2007**
  - D0E EPSCoR Grant including Regents match for OU Subcontract: $304,000
  - DOE Grant DE-FG02-95ER40923 Experimental portions with Skubic, Gutierrez, Abbott: $455,000.00 item DOE Tier 2 Grant for ATLAS with Skubic, Gutierrez, Abbott: $65,000.00
  - DOE Grant through Fermilab: $19,000
  - DOE Grant for ILC Tracking: $10,509
  - NSF Quarknet High School Teacher program with Gutierrez: $5,418.00
  - Proposal for Inner Detector Optical Link with Abbot, Guteirrez, Skubic: $24,045.
- **2006**
  - D0E EPSCoR Grant including Regents match for OU Subcontract: $304,000
  - DOE Grant DE-FG02-95ER40923 Experimental portions with Skubic, Gutierrez, Abbott: $453,000.00
  - DOE Grant through Fermilab: $19,000
  - NSF Quarknet High School Teacher program with Gutierrez: $20,125.00
- **2005**
  - D0E EPSCoR Grant with OSU, Langston:$338,000 with Regents match
  - DOE Grant DE-FG02-95ER40923 Experimental portions with Skubic, Gutierrez, Abbott: $460,000.00
  - DOE Grant through Fermilab: $19,000
  - DOE EPSCoR grant with Kao, Skubic, Gutierrez, Milton, and Abbott: $150,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $14,250.00
- **2004**
  - DOE Grant DE-FG02-95ER40923 with Skubic, Gutierrez, and Milton: $620,000.00
  - NSF Major Research Infrastructure Grant with Skubic and Gutierrez: $285,000.00
  - DOE EPSCoR grant with Kao, Skubic, Gutierrez, Milton, and Abbott: $150,000.00
  - NSF funds for ATLAS equipment dispursed through Columbia University with Skubic and Gutierrez: $114,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $14,250.00
- **2003**
  - DOE Grant DE-FG02-95ER40923 with Skubic, Gutierrez, and Milton: $555,000.00
  - NSF Major Research Infrastructure Grant with Skubic and Gutierrez: $285,000.00
  - DOE EPSCoR grant with Kao, Skubic, Gutierrez, Milton, and Abbott: $150,000.00
  - NSF funds for ATLAS equipment dispursed through Columbia University with Skubic and Gutierrez: $114,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $14,250.00

- **2002**
  - DOE Grant DE-FG02-95ER40923 with Skubic, Gutierrez, and Milton: $555,000.00
  - NSF Major Research Infrastructure Grant with Skubic and Gutierrez: $285,000.00
  - NSF funds for ATLAS equipment dispursed through Columbia University: $20,000.00
  - Internal Funding: OU Matching funds for ATLAS: $20,000.00.
- **2001**
  - DOE Grant DE-FG02-95ER40923 with Skubic, Gutierrez, and Milton: $555,000.00
  - NSF Major Research Infrastructure Grant with Skubic and Gutierrez: $285,000.00
  - NSF funds for ATLAS equipment dispursed through Columbia University: $20,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $14,250.00
  - Internal Funding: Research/Creative Activity Equipment/Facilities Grant with Skubic, Gutierrez, and Abbott, "Semiconductor Detector Design and Testing Facility:" $18,350.00.
  - Internal Funding: OU Matching funds for ATLAS: $20,000.00.
- **2000**
  - DOE Grant DE-FG02-95ER40923 with Kalbfleisch, Skubic, and Gutierrez: $380,000.00
  - DOE Grant DE-FG02-95ER40923-E with Skubic and Gutierrez: $40,800.00 supplemental for ATLAS.
  - DOE Grant DE-FG02-95ER40923-MM with Kalbfleisch and Milton, $30,000.00 supplemental for magnetic monopoles.
  - DØ Fermilab silicon detector: $12,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $14,250.00
  - Internal Funding: OU Matching funds for ATLAS: $20,000.00
- **1999**
  - DOE Grant DE-FG02-95ER40923 with Kalbfleisch, Skubic, and Gutierrez: $380,000.00
  - DOE Grant DE-FG02-95ER40923-E with Skubic and Gutierrez: $40,800.00 supplemental for ATLAS.
  - DOE Grant DE-FG02-95ER40923-MM with Kalbfleisch and Milton: $30,000.00 supplemental for magnetic monopoles.
  - DØ Fermilab silicon detector: $12,000.00
  - NSF Quarknet High School Teacher program with Gutierrez: $8,800.00
  - Internal Funding; OU Matching funds for ATLAS: $20,000.00.
  - Internal Funding; Matching funds for DØ silicon detector grant equivalent to IDC.
- **1998**
  - DOE Grant DE-FG02-95ER40923 with Kalbfleisch, Skubic, and Gutierrez: $380,000.00
  - DOE Grant DE-FG02-95ER40923-E with Skubic and Gutierrez: $30,000.00 supplemental for ATLAS.
  - DOE Grant DE-FG02-95ER40923-MM with Kalbfleisch and Milton: $30,000.00 supplemental for magnetic monopoles.

- DØ Fermilab silicon detector: $10,000.00
- Internal Funding; OU Matching funds for ATLAS: $20,000.00.
- Internal Funding; Vice Presidential Junior Faculty Research Program "A Measurement of the Isolated Photon Cross Section at an Energy of 630 GeV Using the DØ Detector at Fermilab," $6000

- **1997**
  - DOE Grant DE-FG02-95ER40923 with Kalbfleisch, Skubic, and Gutierrez: $378,000.00
  - DOE Grant DE-FG02-95ER40923-E with Skubic and Gutierrez: $48,000.00 supplemental for ATLAS.
  - DOE Grant DE-FG02-95ER40923-MM with Kalbfleisch and Milton: $30,000.00 supplemental for magnetic monopoles.
  - DØ Fermilab silicon detector: $10,000.00
  - Internal Funding; OU Matching funds for ATLAS: $20,000.00.

- **1996**
  - Internal Funding: Vice Presidential Junior Faculty Research Program "A Study of Quarks and Quantum Chromodynamics Using the DØ Detector at the Fermi National Accelerator Laboratory," $6000

6 Selected Conference Proceedings

1. "Measurements of differential W + Jets Production and α_S from Multijet Production," Michael G. Strauss, 36th International Conference on High Energy Physics, Melbourne, Australia, July 4 - 1, 2012.

2. "Recent QCD Measurements at the Tevatron," Michael G. Strauss, 22nd Rencontres de Blois, Blois, France, July 15 - 20, 2010.

3. "Rare Heavy Flavor Decays at DØ," M. G. Strauss, XXXIII International Conference on High Energy Physics, Moscow, Russia, July 26 - August 2, 2006, Institute of Physics Publishing, p. 1179, (2006).

4. "Measurements of the Masses, Mixing, and Lifetimes of B Hadrons at the Tevatron," M. G. Strauss, New Views in Particle Physics, Proceedings of the 5th Rencontres du Vietnam, Hanoi, Vietnam, August 5-11, 2004, The Gioi Publishers, p. 301, (2005).

5. "Recent Results on Jet Physics," Michael Strauss, Proceedings of the XXI International Conference on Physics in Collision, 2001, Seoul, Korea, June 28-30, 2001, Ed. Soo-Bong Kim, Frascati Physics Series, p. 143.

6. "Photon Production at the Fermilab Tevatron," M.G. Strauss for the DØ and CDF Collaborations, Proceedings of the 34th Rencontres de Moriond '99 QCD and High Energy Hadronic Interactions, Les Arcs, France, March 20-27, 1999, Ed. J. Trân Thanh Vân, Thê Giói Publishers, p. 19.

7. "Color Singlet Exchange at the Tevatron" M.G. Strauss for the DØ and CDF Collaborations, Proceedings of the 34th Rencontres de Moriond '99 QCD and High Energy Hadronic Interactions, Les Arcs, France, March 20-27, 1999, Ed. J. Trân Thanh Vân, Thê Giói Publishers, p. 93.

8. "The DØ Detector Upgrade at Fermilab," M.G. Strauss for the DØ Collaboration, Proceedings of the International Europhysics Conference on High Energy Physics, Jerusalem, Israel, August 20-26, 1997, Eds. D. Lellouch, G. Mikenberg, E. Rabinovici, Springer Publishers, p. 1095.

9. "Performance of the SLD CCD Pixel Vertex Detector and Design of an Upgrade," SLD Collaboration, M.G. Strauss *et al.*, Proceedings of the XXVII International Conference on High Energy Physics (ICHEP), Glasgow, Scotland, UK, 20-27 July, 1994, Eds. P.J. Bussey, I.G. Knowles, Vol. 2, p. 1179.

10. "QCD Tests With SLD and Polarized Beams," SLD Collaboration, M.G. Strauss *et al.*, Proceedings of the XXI Summer Institute on Particle Physics, Topical Conference, Stanford Linear Accelerator Center, Stanford, CA, 4-6 August, 1993, Eds. D. Burke, L. Dixon, W.G.S Leith, p. 345.

11. "Performance of a Silicon CCD Pixel Vertex Detector in the SLD," SLD Collaboration, M.G. Strauss *et al.*, SLAC-PUB-5970, October 1992. 6pp. Proceedings of the Fermilab Meeting, DPF 92, 10-14 November 1992, Ed. C.H. Albright *et al.*, Vol. 2 p. 1758.

12. "Design and Performance of the SLD Vertex Detector, A 120 Mpixel Tracking System," C.J.S. Damerell *et al.*, Proceedings of the XXVI International Conference on High Energy Physics (ICHEP), Dallas, Texas, 6-12 August, 1992, Ed. James R. Sanford, Vol. 2 p. 1862.

13. "General Lessons from the SLD Vertex Detector," G.D. Agnew *et al.*, Stanford 1992, Proceedings, B Factories, p. 397.

7 Selected Invited Talks

1. "The Higgs Particle After Seven Years," Texas A&M University, College Station, TX, October 18, 2019.
2. "Measurements of the properties of a Higgs Boson using the ATLAS detector at the LHC," University of Mississippi, Oxford, MS, February 10, 2015.
3. "Measurements of the properties of a Higgs Boson using the ATLAS detector at the LHC," Mississippi State University, February 11, 2015.
4. "Measurements of the properties of a Higgs Boson using the ATLAS detector at the LHC," University of Nebraska, Lincoln, NE, March 12, 2015.
5. "Measurements of the properties of a Higgs Boson using the ATLAS Detector at the LHC," Texas Tech University, Lubbock, TX, October 23, 2014.
6. "Discovery of the Higgs Boson Using the ATLAS Detector at the LHC," Gdansk University of Technology, Gdansk, Poland, June 27, 2014.
7. "Discovery of the Higgs Boson Using the ATLAS Detector at the LHC," University of North Texas, Denton, TX, April 1, 2014.
8. "Discovery of the Higgs Boson Using the ATLAS Detector at the LHC," Korea University, Seoul, Korea, March 21, 2013.
9. "Discovery of the Higgs Boson Using the ATLAS Detector at the LHC," Seoul National University, Seoul, Korea, March 22, 2013.
10. "True Color: QCD Measurements with the DØ Detector at the Tevatron Collider," Colloquium, University of Alabama, Tuscaloosa, AL, October 31, 2012.
11. "Seeing Color in Black and White," Colloquium, University of Oklahoma, Norman, OK, April 29, 2010.
12. "QCD at the Tevatron: The Production of Jets and Photons plus Jets," The American Physical Society Annual Meeting, Denver, CO, May 2-5, 2009.
13. "The Top (at) Ten," Colloquium, The University of Hawaii, Honolulu, HI, March 16, 2006.
14. "Measurements of the Masses, Mixing, and Lifetimes of B Hadrons at the Tevatron," Santa Cruz Institute for Particle Physics, Santa Cruz, CA, October 25, 2004.
15. "Probing the Structure of the Proton at the Fermilab Tevatron," Colloquium, University of Oklahoma, Norman, OK, October 5, 2000.
16. "On Top at DØ and other Heavy Subjects," Colloquium, Oklahoma State University, Stillwater, OK, January 20, 2000.
17. "A Tour of the Standard Model of Elementary Particles and Fields," Grayson County Community College, TX, September 23, 1999.
18. "The Fundamental Forces and Particles in the Universe," Colloquium, Northeastern State University, Tahlequah, OK, April 15, 1998.
19. "Heavy Quark Asymmetries and Other Parameters" M. Strauss representing the SLD Collaboration, Plenary Session of the joint APS/AAPT Meeting, Washington D.C., 21 April, 1995.

8 Publications

1. ATLAS:2024ffc G. Aad *et al.* [ATLAS], "Operation and performance of the ATLAS tile calorimeter in LHC Run 2," Eur. Phys. J. C **84**, no.12, 1313 (2024) doi:10.1140/epjc/s10052-024-13151-4

2. ATLAS:2024rzd G. Aad *et al.* [ATLAS], "Search for a light CP-odd Higgs boson decaying into a pair of τ-leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **12**, 126 (2024) doi:10.1007/JHEP12(2024)126 [arXiv:2409.20381 [hep-ex]].

3. ATLAS:2024woy G. Aad *et al.* [ATLAS], "Search for supersymmetry using vector boson fusion signatures and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **12**, 116 (2024) doi:10.1007/JHEP12(2024)116 [arXiv:2409.18762 [hep-ex]].

4. ATLAS:2024fcs G. Aad *et al.* [ATLAS], "Search for heavy right-handed Majorana neutrinos in the decay of top quarks produced in proton-proton collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.11, 112004 (2024) doi:10.1103/PhysRevD.110.112004 [arXiv:2408.05000 [hep-ex]].

5. ATLAS:2024rua G. Aad *et al.* [ATLAS], "Accuracy versus precision in boosted top tagging with the ATLAS detector," JINST **19**, no.08, P08018 (2024) doi:10.1088/1748-0221/19/08/P08018 [arXiv:2407.20127 [hep-ex]].

6. ATLAS:2024jtu G. Aad *et al.* [ATLAS], "Jet radius dependence of dijet momentum balance and suppression in Pb+Pb collisions at 5.02 TeV with the ATLAS detector," Phys. Rev. C **110**, no.5, 054912 (2024) doi:10.1103/PhysRevC.110.054912 [arXiv:2407.18796 [nucl-ex]].

7. ATLAS:2024ppp G. Aad *et al.* [ATLAS], "Measurement of single top-quark production in association with a W boson in pp collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.7, 072010 (2024) doi:10.1103/PhysRevD.110.072010 [arXiv:2407.15594 [hep-ex]].

8. ATLAS:2024yqn G. Aad *et al.* [ATLAS], "Using pile-up collisions as an abundant source of low-energy hadronic physics processes in ATLAS and an extraction of the jet energy resolution," JHEP **12**, 032 (2024) doi:10.1007/JHEP12(2024)032 [arXiv:2407.10819 [hep-ex]].

9. ATLAS:2024ocv G. Aad *et al.* [ATLAS], "Search for neutral long-lived particles that decay into displaced jets in the ATLAS calorimeter in association with leptons or jets using pp collisions at $\sqrt{\mathrm{s}} = 13$ TeV," JHEP **11**, 036 (2024) doi:10.1007/JHEP11(2024)036 [arXiv:2407.09183 [hep-ex]].

10. ATLAS:2024ytx G. Aad *et al.* [ATLAS], "Sensor response and radiation damage effects for 3D pixels in the ATLAS IBL Detector," JINST **19**, no.10, P10008 (2024) doi:10.1088/1748-0221/19/10/P10008 [arXiv:2407.05716 [physics.ins-det]].

11. ATLAS:2024jvf G. Aad *et al.* [ATLAS], "Disentangling Sources of Momentum Fluctuations in Xe+Xe and Pb+Pb Collisions with the ATLAS Detector," Phys. Rev. Lett. **133**, no.25, 252301 (2024) doi:10.1103/PhysRevLett.133.252301 [arXiv:2407.06413 [nucl-ex]].

12. ATLAS:2024vpj G. Aad *et al.* [ATLAS], "Search for decays of the Higgs boson into a pair of pseudoscalar particles decaying into $\mathrm{bb}^{-}\tau+\tau$- using pp collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.5, 052013 (2024) doi:10.1103/PhysRevD.110.052013 [arXiv:2407.01335 [hep-ex]].

13. ATLAS:2024xkd G. Aad *et al.* [ATLAS], "Measurement of differential cross-sections in $t\bar{t}$ and $t\bar{t}$+jets production in the lepton+jets final state in pp collisions at $\sqrt{s} = 13$ TeV using 140 fb[1] of ATLAS data," JHEP **08**, 182 (2024) doi:10.1007/JHEP08(2024)182 [arXiv:2406.19701 [hep-ex]].

14. ATLAS:2024zkx G. Aad *et al.* [ATLAS], "Search for R-parity violating supersymmetric decays of the top squark to a b-jet and a lepton in s=13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **110**, no.9, 092004 (2024) doi:10.1103/PhysRevD.110.092004 [arXiv:2406.18367 [hep-ex]].

15. ATLAS:2024ish G. Aad *et al.* [ATLAS], "Combination of Searches for Higgs Boson Pair Production in pp Collisions at s=13 TeV with the ATLAS Detector," Phys. Rev. Lett. **133**, no.10, 101801 (2024) doi:10.1103/PhysRevLett.133.101801 [arXiv:2406.09971 [hep-ex]].

16. ATLAS:2024rlu G. Aad *et al.* [ATLAS], "Search for new particles in events with a hadronically decaying W or Z boson and large missing transverse momentum at $\sqrt{s} = 13$ TeV using the ATLAS detector," JHEP **11**, 126 (2024) doi:10.1007/JHEP11(2024)126 [arXiv:2406.01272 [hep-ex]].

17. ATLAS:2024cju G. Aad *et al.* [ATLAS], "Combination of searches for Higgs boson decays into a photon and a massless dark photon using pp collisions at $\sqrt{s}$= 13 TeV with the ATLAS detector," JHEP **08**, 153 (2024) doi:10.1007/JHEP08(2024)153 [arXiv:2406.01656 [hep-ex]].

18. ATLAS:2024xkk G. Aad *et al.* [ATLAS], "Search for a resonance decaying into a scalar particle and a Higgs boson in final states with leptons and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 104 (2024) doi:10.1007/JHEP10(2024)104 [arXiv:2405.20926 [hep-ex]].

19. ATLAS:2024xxl G. Aad *et al.* [ATLAS], "Simultaneous Unbinned Differential Cross-Section Measurement of Twenty-Four Z+jets Kinematic Observables with the ATLAS Detector," Phys. Rev. Lett. **133**, no.26, 261803 (2024) doi:10.1103/PhysRevLett.133.261803 [arXiv:2405.20041 [hep-ex]].

20. ATLAS:2024png G. Aad *et al.* [ATLAS], "Measurements of jet cross-section ratios in 13 TeV proton-proton collisions with ATLAS," Phys. Rev. D **110**, no.7, 072019 (2024) doi:10.1103/PhysRevD.110.072019 [arXiv:2405.20206 [hep-ex]].

21. ATLAS:2024zlo G. Aad *et al.* [ATLAS], "Search for pair-produced vectorlike quarks coupling to light quarks in the lepton plus jets final state using 13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **110**, no.5, 052009 (2024) doi:10.1103/PhysRevD.110.052009 [arXiv:2405.19862 [hep-ex]].

22. ATLAS:2024xbu G. Aad *et al.* [ATLAS], "Search for dark mesons decaying to top and bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **09**, 005 (2024) doi:10.1007/JHEP09(2024)005 [arXiv:2405.20061 [hep-ex]].

23. ATLAS:2024lhu G. Aad *et al.* [ATLAS], "Search for non-resonant Higgs boson pair production in final states with leptons, taus, and photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 164 (2024) doi:10.1007/JHEP08(2024)164 [arXiv:2405.20040 [hep-ex]].

24. ATLAS:2024qdu G. Aad *et al.* [ATLAS], "Observation of $t\bar{t}$ production in the lepton+jets and dilepton channels in p+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV with the ATLAS detector," JHEP **11**, 101 (2024) doi:10.1007/JHEP11(2024)101 [arXiv:2405.05078 [nucl-ex]].

25. ATLAS:2024nbm G. Aad *et al.* [ATLAS], "Underlying-event studies with strange hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.12, 1335 (2024) doi:10.1140/epjc/s10052-024-13243-1 [arXiv:2405.05048 [hep-ex]].

26. ATLAS:2024ytk G. Aad *et al.* [ATLAS], "Calibration of a soft secondary vertex tagger using proton-proton collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.3, 032015 (2024) doi:10.1103/PhysRevD.110.032015 [arXiv:2405.03253 [hep-ex]].

27. ATLAS:2024sat G. Aad *et al.* [ATLAS], "Beam-induced backgrounds measured in the ATLAS detector during local gas injection into the LHC beam vacuum," JINST **19**, no.06, P06014 (2024) doi:10.1088/1748-0221/19/06/P06014 [arXiv:2405.05054 [physics.ins-det]].

28. ATLAS:2024vxm G. Aad *et al.* [ATLAS], "Search for heavy neutral Higgs bosons decaying into a top quark pair in 140 fb^1 of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 013 (2024) doi:10.1007/JHEP08(2024)013 [arXiv:2404.18986 [hep-ex]].

29. ATLAS:2024lsk G. Aad *et al.* [ATLAS], "Search for pair production of boosted Higgs bosons via vector-boson fusion in the $\mathrm{bb}^{-}\mathrm{bb}^{-}$ final state using pp collisions at s=13TeV with the ATLAS detector," Phys. Lett. B **858**, 139007 (2024) doi:10.1016/j.physletb.2024.139007 [arXiv:2404.17193 [hep-ex]].

30. ATLAS:2024kpy G. Aad *et al.* [ATLAS], "Constraints on simplified dark matter models involving an s-channel mediator with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **84**, no.10, 1102 (2024) doi:10.1140/epjc/s10052-024-13215-5 [arXiv:2404.15930 [hep-ex]].

31. ATLAS:2024auw G. Aad *et al.* [ATLAS], "Search for a resonance decaying into a scalar particle and a Higgs boson in the final state with two bottom quarks and two photons in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **11**, 047 (2024) doi:10.1007/JHEP11(2024)047 [arXiv:2404.12915 [hep-ex]].

32. ATLAS:2024pov G. Aad *et al.* [ATLAS], "Search for the nonresonant production of Higgs boson pairs via gluon fusion and vector-boson fusion in the $\mathrm{bb}^{-}\tau+\tau$- final state in proton-proton collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.3, 032012 (2024) doi:10.1103/PhysRevD.110.032012 [arXiv:2404.12660 [hep-ex]].

33. ATLAS:2024nrd G. Aad *et al.* [ATLAS], "Precise measurements of W- and Z-boson transverse momentum spectra with the ATLAS detector using pp collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV," Eur. Phys. J. C **84**, no.10, 1126 (2024) doi:10.1140/epjc/s10052-024-13414-0 [arXiv:2404.06204 [hep-ex]].

34. ATLAS:2024zzz G. Aad *et al.* [ATLAS], "Search for pair-produced higgsinos decaying via Higgs or Z bosons to final states containing a pair of photons and a pair of b-jets with the ATLAS detector," Phys. Lett. B **856**, 138938 (2024) doi:10.1016/j.physletb.2024.138938 [arXiv:2404.01996 [hep-ex]].

35. ATLAS:2024mih G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral-current couplings between the top quark and the Higgs boson in multi-lepton final states in 13 TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **84**, no.7, 757 (2024) doi:10.1140/epjc/s10052-024-12994-1 [arXiv:2404.02123 [hep-ex]].

36. ATLAS:2024qoo G. Aad *et al.* [ATLAS], "Search for Light Long-Lived Particles in pp Collisions at s=13 TeV Using Displaced Vertices in the ATLAS Inner Detector," Phys. Rev. Lett. **133**, no.16, 161803 (2024) doi:10.1103/PhysRevLett.133.161803 [arXiv:2403.15332 [hep-ex]].

37. ATLAS:2024ini G. Aad *et al.* [ATLAS], "Measurements of electroweak WZ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 192 (2024) doi:10.1007/JHEP06(2024)192 [arXiv:2403.15296 [hep-ex]].

38. ATLAS:2024tnr G. Aad *et al.* [ATLAS], "Measurements of the production cross-section for a Z boson in association with b- or c-jets in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.9, 984 (2024) doi:10.1140/epjc/s10052-024-13159-w [arXiv:2403.15093 [hep-ex]].

39. ATLAS:2024erm G. Aad *et al.* [ATLAS], "Measurement of the W-boson mass and width with the ATLAS detector using proton–proton collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **84**, no.12, 1309 (2024) doi:10.1140/epjc/s10052-024-13190-x [arXiv:2403.15085 [hep-ex]].

40. ATLAS:2024rzi G. Aad *et al.* [ATLAS], "Search for heavy Majorana neutrinos in ee and $e\mu$ final states via WW scattering in pp collisions at s=13 TeV with the ATLAS detector," Phys. Lett. B **856**, 138865 (2024) doi:10.1016/j.physletb.2024.138865 [arXiv:2403.15016 [hep-ex]].

41. ATLAS:2024irg G. Aad *et al.* [ATLAS], "Measurement of vector boson production cross sections and their ratios using pp collisions at s=13.6 TeV with the ATLAS detector," Phys. Lett. B **854**, 138725 (2024) doi:10.1016/j.physletb.2024.138725 [arXiv:2403.12902 [hep-ex]].

42. ATLAS:2024hmk G. Aad *et al.* [ATLAS], "Measurements of inclusive and differential cross-sections of $t\bar{t}\gamma$ production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 191 (2024) doi:10.1007/JHEP10(2024)191 [arXiv:2403.09452 [hep-ex]].

43. ATLAS:2024qqm G. Aad *et al.* [ATLAS], "Search for low-mass resonances decaying into two jets and produced in association with a photon or a jet at s=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.3, 032002 (2024) doi:10.1103/PhysRevD.110.032002 [arXiv:2403.08547 [hep-ex]].

44. ATLAS:2024njy G. Aad *et al.* [ATLAS], "Search for charged-lepton-flavor violating $\mu\tau qt$ interactions in top-quark production and decay in pp collisions at s=13 TeV with the ATLAS detector at the LHC," Phys. Rev. D **110**, no.1, 012014 (2024) doi:10.1103/PhysRevD.110.012014 [arXiv:2403.06742 [hep-ex]].

45. ATLAS:2024ett G. Aad *et al.* [ATLAS], "Observation of electroweak production of W^+W in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 254 (2024) doi:10.1007/JHEP07(2024)254 [arXiv:2403.04869 [hep-ex]].

46. ATLAS:2024vqf G. Aad *et al.* [ATLAS], "Differential cross-sections for events with missing transverse momentum and jets measured with the ATLAS detector in 13 TeV proton-proton collisions," JHEP **08**, 223 (2024) doi:10.1007/JHEP08(2024)223 [arXiv:2403.02793 [hep-ex]].

47. ATLAS:2024bho G. Aad *et al.* [ATLAS], "Fiducial and differential cross-section measurements of electroweak $W\gamma jj$ production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.10, 1064 (2024) doi:10.1140/epjc/s10052-024-13311-6 [arXiv:2403.02809 [hep-ex]].

48. ATLAS:2024tlf G. Aad *et al.* [ATLAS], "Precise test of lepton flavour universality in W-boson decays into muons and electrons in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.10, 993 (2024) doi:10.1140/epjc/s10052-024-13070-4 [arXiv:2403.02133 [hep-ex]].

49. ATLAS:2024ojr G. Aad *et al.* [ATLAS], "Measurement of t-channel production of single top quarks and antiquarks in pp collisions at 13 TeV using the full ATLAS Run 2 data sample," JHEP **05**, 305 (2024) doi:10.1007/JHEP05(2024)305 [arXiv:2403.02126 [hep-ex]].

50. ATLAS:2024dpw G. Aad *et al.* [ATLAS], "Searches for exclusive Higgs boson decays into $D^*\gamma$ and Z boson decays into $D^0\gamma$ and $K_s^0\gamma$ in pp collisions at $\sqrt{s}$=13TeV with the ATLAS detector," Phys. Lett. B **855**, 138762 (2024) doi:10.1016/j.physletb.2024.138762 [arXiv:2402.18731 [hep-ex]].

51. ATLAS:2024qbd G. Aad *et al.* [ATLAS], "Studies of the Energy Dependence of Diboson Polarization Fractions and the Radiation-Amplitude-Zero Effect in WZ Production with the ATLAS Detector," Phys. Rev. Lett. **133**, no.10, 101802 (2024) [erratum: Phys. Rev. Lett. **133**, no.16, 169901 (2024)] doi:10.1103/PhysRevLett.133.101802 [arXiv:2402.16365 [hep-ex]].

52. ATLAS:2024tzc G. Aad *et al.* [ATLAS], "Search for high-mass resonances in final states with a τ-lepton and missing transverse momentum with the ATLAS detector," Phys. Rev. D **109**, no.11, 112008 (2024) doi:10.1103/PhysRevD.109.112008 [arXiv:2402.16576 [hep-ex]].

53. ATLAS:2024xne G. Aad *et al.* [ATLAS], "Search for new particles in final states with a boosted top quark and missing transverse momentum in proton-proton collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," JHEP **05**, 263 (2024) doi:10.1007/JHEP05(2024)263 [arXiv:2402.16561 [hep-ex]].

54. ATLAS:2024uvu G. Aad *et al.* [ATLAS], "Search for a new Z' gauge boson via the $pp \to W^{\pm *} \to Z'\mu^{\pm}\nu \to \mu^{\pm}\mu^{\mp}\mu^{\pm}\nu$ process in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Phys. Rev. D **110**, no.7, 072008 (2024) doi:10.1103/PhysRevD.110.072008 [arXiv:2402.15212 [hep-ex]].

55. ATLAS:2024wrd G. Aad *et al.* [ATLAS], "Measurements of Lund subjet multiplicities in 13 TeV proton-proton collisions with the ATLAS detector," Phys. Lett. B **859**, 139090 (2024) doi:10.1016/j.physletb.2024.139090 [arXiv:2402.13052 [hep-ex]].

56. ATLAS:2024vyj G. Aad *et al.* [ATLAS], "A search for top-squark pair production, in final states containing a top quark, a charm quark and missing transverse momentum, using the 139 fb^1 of pp collision data collected by the ATLAS detector," JHEP **07**, 250 (2024) doi:10.1007/JHEP07(2024)250 [arXiv:2402.12137 [hep-ex]].

57. ATLAS:2024qvg G. Aad *et al.* [ATLAS], "Combination of searches for heavy spin-1 resonances using 139 fb^1 of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **04**, 118 (2024) doi:10.1007/JHEP04(2024)118 [arXiv:2402.10607 [hep-ex]].

58. ATLAS:2024qxh G. Aad *et al.* [ATLAS], "Statistical Combination of ATLAS Run 2 Searches for Charginos and Neutralinos at the LHC," Phys. Rev. Lett. **133**, no.3, 031802 (2024) doi:10.1103/PhysRevLett.133.031802 [arXiv:2402.08347 [hep-ex]].

59. ATLAS:2024dxp A. Hayrapetyan *et al.* [ATLAS and CMS], "Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at s=7 and 8 TeV," Phys. Rev. Lett. **132**, no.26, 261902 (2024) doi:10.1103/PhysRevLett.132.261902 [arXiv:2402.08713 [hep-ex]].

60. ATLAS:2024ztz G. Aad *et al.* [ATLAS], "Performance of the ATLAS forward proton Time-of-Flight detector in Run 2," JINST **19**, no.05, P05054 (2024) doi:10.1088/1748-0221/19/05/P05054 [arXiv:2402.06438 [physics.ins-det]].

61. ATLAS:2024lyh G. Aad *et al.* [ATLAS], "Interpretations of the ATLAS measurements of Higgs boson production and decay rates and differential cross-sections in pp collisions at $\sqrt{s}$ = 13 TeV," JHEP **11**, 097 (2024) doi:10.1007/JHEP11(2024)097 [arXiv:2402.05742 [hep-ex]].

62. ATLAS:2024qmx G. Aad *et al.* [ATLAS], "ATLAS Run 2 searches for electroweak production of supersymmetric particles interpreted within the pMSSM," JHEP **05**, 106 (2024) doi:10.1007/JHEP05(2024)106 [arXiv:2402.01392 [hep-ex]].

63. ATLAS:2024vxc G. Aad *et al.* [ATLAS], "Determination of the Relative Sign of the Higgs Boson Couplings to W and Z Bosons Using WH Production via Vector-Boson Fusion with the ATLAS Detector," Phys. Rev. Lett. **133**, no.14, 141801 (2024) doi:10.1103/PhysRevLett.133.141801 [arXiv:2402.00426 [hep-ex]].

64. ATLAS:2024fub G. Aad *et al.* [ATLAS], "Search for electroweak production of supersymmetric particles in final states with two τ-leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **05**, 150 (2024) doi:10.1007/JHEP05(2024)150 [arXiv:2402.00603 [hep-ex]].

65. ATLAS:2024gyc G. Aad *et al.* [ATLAS], "Search for pair-production of vector-like quarks in lepton+jets final states containing at least one b-tagged jet using the Run 2 data from the ATLAS experiment," Phys. Lett. B **854**, 138743 (2024) doi:10.1016/j.physletb.2024.138743 [arXiv:2401.17165 [hep-ex]].

66. ATLAS:2024kqk G. Aad *et al.* [ATLAS], "A search for R-parity-violating supersymmetry in final states containing many jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **05**, 003 (2024) doi:10.1007/JHEP05(2024)003 [arXiv:2401.16333 [hep-ex]].

67. ATLAS:2024tqe G. Aad *et al.* [ATLAS], "Search for pair production of higgsinos in events with two Higgs bosons and missing transverse momentum in s=13 TeV pp collisions at the ATLAS experiment," Phys. Rev. D **109**, no.11, 112011 (2024) doi:10.1103/PhysRevD.109.112011 [arXiv:2401.14922 [hep-ex]].

68. ATLAS:2024umc G. Aad *et al.* [ATLAS], "Search for Nearly Mass-Degenerate Higgsinos Using Low-Momentum Mildly Displaced Tracks in pp Collisions at s=13 TeV with the ATLAS Detector," Phys. Rev. Lett. **132**, no.22, 221801 (2024) doi:10.1103/PhysRevLett.132.221801 [arXiv:2401.14046 [hep-ex]].

69. ATLAS:2024rcx G. Aad *et al.* [ATLAS], "Search for new phenomena with top-quark pairs and large missing transverse momentum using 140 fb[1] of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **03**, 139 (2024) doi:10.1007/JHEP03(2024)139 [arXiv:2401.13430 [hep-ex]].

70. ATLAS:2024huc G. Aad *et al.* [ATLAS], "Combination of searches for pair-produced leptoquarks at s=13 TeV with the ATLAS detector," Phys. Lett. B **854**, 138736 (2024) doi:10.1016/j.physletb.2024.138736 [arXiv:2401.11928 [hep-ex]].

71. ATLAS:2024xna G. Aad *et al.* [ATLAS], "The ATLAS trigger system for LHC Run 3 and trigger performance in 2022," JINST **19**, no.06, P06029 (2024) doi:10.1088/1748-0221/19/06/P06029 [arXiv:2401.06630 [hep-ex]].

72. ATLAS:2024moy G. Aad *et al.* [ATLAS], "Measurement of the total and differential cross-sections of $t\bar{t}W$ production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **05**, 131 (2024) doi:10.1007/JHEP05(2024)131 [arXiv:2401.05299 [hep-ex]].

73. ATLAS:2024bzr G. Aad *et al.* [ATLAS], "Search for heavy resonances in final states with four leptons and missing transverse momentum or jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 130 (2024) doi:10.1007/JHEP10(2024)130 [arXiv:2401.04742 [hep-ex]].

74. D0:2024fko V. M. Abazov *et al.* [D0], "Up and Down Quark Structure of the Proton," Phys. Rev. D **110**, no.9, L091101 (2024) doi:10.1103/PhysRevD.110.L091101 [arXiv:2403.09331 [hep-ex]].

75. ATLAS:2023jdk G. Aad *et al.* [ATLAS], "Study of High-Transverse-Momentum Higgs Boson Production in Association with a Vector Boson in the qqbb Final State with the ATLAS Detector," Phys. Rev. Lett. **132**, no.13, 131802 (2024) doi:10.1103/PhysRevLett.132.131802 [arXiv:2312.07605 [hep-ex]].

76. ATLAS:2023eld G. Aad *et al.* [ATLAS], "Inclusive and differential cross-section measurements of $t\bar{t}Z$ production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, including EFT and spin-correlation interpretations," JHEP **07**, 163 (2024) doi:10.1007/JHEP07(2024)163 [arXiv:2312.04450 [hep-ex]].

77. ATLAS:2023ian G. Aad *et al.* [ATLAS], "Search for short- and long-lived axion-like particles in $H \to aa \to 4\gamma$ decays with the ATLAS experiment at the LHC," Eur. Phys. J. C **84**, no.7, 742 (2024) doi:10.1140/epjc/s10052-024-12979-0 [arXiv:2312.03306 [hep-ex]].

78. ATLAS:2023jdw G. Aad *et al.* [ATLAS], "Measurement of jet substructure in boosted tt^{-} events with the ATLAS detector using 140 fb-1 of 13 TeV pp collisions," Phys. Rev. D **109**, no.11, 112016 (2024) doi:10.1103/PhysRevD.109.112016 [arXiv:2312.03797 [hep-ex]].

79. ATLAS:2023ynf G. Aad *et al.* [ATLAS], "Measurement of the Z boson invisible width at s=13 TeV with the ATLAS detector," Phys. Lett. B **854**, 138705 (2024) doi:10.1016/j.physletb.2024.138705 [arXiv:2312.02789 [hep-ex]].

80. ATLAS:2023etl G. Aad *et al.* [ATLAS], "Search for the decay of the Higgs boson to a Z boson and a light pseudoscalar particle decaying to two photons," Phys. Lett. B **850**, 138536 (2024) doi:10.1016/j.physletb.2024.138536 [arXiv:2312.01942 [hep-ex]].

81. ATLAS:2023qpu G. Aad *et al.* [ATLAS], "Measurement of the $VH, H \to \tau\tau$ process with the ATLAS detector at 13 TeV," Phys. Lett. B **855**, 138817 (2024) doi:10.1016/j.physletb.2024.138817 [arXiv:2312.02394 [hep-ex]].

82. ATLAS:2023sua G. Aad *et al.* [ATLAS], "Measurement and interpretation of same-sign W boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **04**, 026 (2024) doi:10.1007/JHEP04(2024)026 [arXiv:2312.00420 [hep-ex]].

83. ATLAS:2023cjw G. Aad *et al.* [ATLAS], "Search for light long-lived neutral particles from Higgs boson decays via vector-boson-fusion production from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.7, 719 (2024) doi:10.1140/epjc/s10052-024-12902-7 [arXiv:2311.18298 [hep-ex]].

84. ATLAS:2023vdy G. Aad *et al.* [ATLAS], "Combination of Searches for Resonant Higgs Boson Pair Production Using pp Collisions at s=13 TeV with the ATLAS Detector," Phys. Rev. Lett. **132**, no.23, 231801 (2024) doi:10.1103/PhysRevLett.132.231801 [arXiv:2311.15956 [hep-ex]].

85. ATLAS:2023dew G. Aad *et al.* [ATLAS], "Measurement of ZZ production cross-sections in the four-lepton final state in pp collisions at s=13.6TeV with the ATLAS experiment," Phys. Lett. B **855**, 138764 (2024) doi:10.1016/j.physletb.2024.138764 [arXiv:2311.09715 [hep-ex]].

86. ATLAS:2023zca G. Aad *et al.* [ATLAS], "Simultaneous energy and mass calibration of large-radius jets with the ATLAS detector using a deep neural network," Mach. Learn. Sci. Tech. **5**, no.3, 035051 (2024) doi:10.1088/2632-2153/ad611e [arXiv:2311.08885 [hep-ex]].

87. ATLAS:2023fsd G. Aad *et al.* [ATLAS], "Observation of quantum entanglement with top quarks at the ATLAS detector," Nature **633**, no.8030, 542-547 (2024) doi:10.1038/s41586-024-07824-z [arXiv:2311.07288 [hep-ex]].

88. ATLAS:2023zkt G. Aad *et al.* [ATLAS], "Search for a CP-odd Higgs boson decaying into a heavy CP-even Higgs boson and a Z boson in the $\ell^+\ell^- t\bar{t}$ and $\nu\bar{\nu}b\bar{b}$ final states using 140 fb^1 of data collected with the ATLAS detector," JHEP **02**, 197 (2024) doi:10.1007/JHEP02(2024)197 [arXiv:2311.04033 [hep-ex]].

89. ATLAS:2023kao G. Aad *et al.* [ATLAS], "Search for resonant production of dark quarks in the dijet final state with the ATLAS detector," JHEP **02**, 128 (2024) doi:10.1007/JHEP02(2024)128 [arXiv:2311.03944 [hep-ex]].

90. ATLAS:2023ikq G. Aad *et al.* [ATLAS], "Improving topological cluster reconstruction using calorimeter cell timing in ATLAS," Eur. Phys. J. C **84**, no.5, 455 (2024) doi:10.1140/epjc/s10052-024-12657-1 [arXiv:2310.16497 [physics.ins-det]].

91. ATLAS:2023gzn G. Aad *et al.* [ATLAS], "Studies of new Higgs boson interactions through nonresonant HH production in the $b\bar{b}\gamma\gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **01**, 066 (2024) doi:10.1007/JHEP01(2024)066 [arXiv:2310.12301 [hep-ex]].

92. ATLAS:2023elc G. Aad *et al.* [ATLAS], "Search for non-resonant Higgs boson pair production in the $2b + 2\ell + E_{\mathrm{T}}^{\mathrm{miss}}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **02**, 037 (2024) doi:10.1007/JHEP02(2024)037 [arXiv:2310.11286 [hep-ex]].

93. ATLAS:2023puv G. Aad *et al.* [ATLAS], "Study of $Z \to ll\gamma$ decays at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.2, 195 (2024) doi:10.1140/epjc/s10052-024-12471-9 [arXiv:2310.11574 [hep-ex]].

94. ATLAS:2023qrn G. Aad *et al.* [ATLAS], "Measurement of t-channel single-top-quark production in pp collisions at s=5.02 TeV with the ATLAS detector," Phys. Lett. B **854**, 138726 (2024) doi:10.1016/j.physletb.2024.138726 [arXiv:2310.01518 [hep-ex]].

95. ATLAS:2023qnh G. Aad *et al.* [ATLAS], "Measurement of the production cross-section of J/ψ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.2, 169 (2024) doi:10.1140/epjc/s10052-024-12439-9 [arXiv:2309.17177 [hep-ex]].

96. ATLAS:2023jfq G. Aad *et al.* [ATLAS], "Search for the Exclusive W Boson Hadronic Decays $W^\pm \to \pi^\pm\gamma, W^\pm \to K^\pm\gamma$ and $W^\pm \to \rho^\pm\gamma$ with the ATLAS Detector," Phys. Rev. Lett. **133**, no.16, 161804 (2024) doi:10.1103/PhysRevLett.133.161804 [arXiv:2309.15887 [hep-ex]].

97. ATLAS:2023mnw G. Aad *et al.* [ATLAS], "Electron and photon energy calibration with the ATLAS detector using LHC Run 2 data," JINST **19**, no.02, P02009 (2024) doi:10.1088/1748-0221/19/02/P02009 [arXiv:2309.05471 [hep-ex]].

98. ATLAS:2023wqy G. Aad *et al.* [ATLAS], "Search for the $Z\gamma$ decay mode of new high-mass resonances in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Phys. Lett. B **848**, 138394 (2024) doi:10.1016/j.physletb.2023.138394 [arXiv:2309.04364 [hep-ex]].

99. ATLAS:2023yqk G. Aad *et al.* [ATLAS and CMS], "Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC," Phys. Rev. Lett. **132**, no.2, 021803 (2024) doi:10.1103/PhysRevLett.132.021803 [arXiv:2309.03501 [hep-ex]].

100. ATLAS:2023vms G. Aad *et al.* [ATLAS], "Azimuthal Angle Correlations of Muons Produced via Heavy-Flavor Decays in 5.02 TeV Pb+Pb and pp Collisions with the ATLAS Detector," Phys. Rev. Lett. **132**, no.20, 202301 (2024) doi:10.1103/PhysRevLett.132.202301 [arXiv:2308.16652 [nucl-ex]].

101. ATLAS:2023zfx G. Aad *et al.* [ATLAS], "Measurement of the Centrality Dependence of the Dijet Yield in p+Pb Collisions at sNN=8.16 TeV with the ATLAS Detector," Phys. Rev. Lett. **132**, no.10, 102301 (2024) doi:10.1103/PhysRevLett.132.102301 [arXiv:2309.00033 [nucl-ex]].

102. ATLAS:2023dxj G. Aad *et al.* [ATLAS], "Electron and photon efficiencies in LHC Run 2 with the ATLAS experiment," JHEP **05**, 162 (2024) doi:10.1007/JHEP05(2024)162 [arXiv:2308.13362 [hep-ex]].

103. ATLAS:2023dkz G. Aad *et al.* [ATLAS], "Differential cross-section measurements of the production of four charged leptons in association with two jets using the ATLAS detector," JHEP **01**, 004 (2024) doi:10.1007/JHEP01(2024)004 [arXiv:2308.12324 [hep-ex]].

104. ATLAS:2023slx G. Aad *et al.* [ATLAS], "Measurement of the tt^{-} cross section and its ratio to the Z production cross section using pp collisions at s=13.6 TeV with the ATLAS detector," Phys. Lett. B **848**, 138376 (2024) doi:10.1016/j.physletb.2023.138376 [arXiv:2308.09529 [hep-ex]].

105. ATLAS:2023iat G. Aad *et al.* [ATLAS], "Software Performance of the ATLAS Track Reconstruction for LHC Run 3," Comput. Softw. Big Sci. **8**, no.1, 9 (2024) doi:10.1007/s41781-023-00111-y [arXiv:2308.09471 [hep-ex]].

106. ATLAS:2023avk G. Aad *et al.* [ATLAS], "Observation of $W\gamma\gamma$ triboson production in proton-proton collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," Phys. Lett. B **848**, 138400 (2024) doi:10.1016/j.physletb.2023.138400 [arXiv:2308.03041 [hep-ex]].

107. ATLAS:2023dyu G. Aad *et al.* [ATLAS], "Performance and calibration of quark/gluon-jet taggers using 140 fb^{1} of pp collisions at TeV with the ATLAS detector*," Chin. Phys. C **48**, no.2, 023001 (2024) doi:10.1088/1674-1137/acf701 [arXiv:2308.00716 [hep-ex]].

108. ATLAS:2023vat G. Aad *et al.* [ATLAS], "Search for quantum black hole production in lepton+jet final states using proton-proton collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **109**, no.3, 032010 (2024) doi:10.1103/PhysRevD.109.032010 [arXiv:2307.14967 [hep-ex]].

109. ATLAS:2023bfh G. Aad *et al.* [ATLAS], "Search for singly produced vectorlike top partners in multilepton final states with 139 fb-1 of pp collision data at s=13 TeV with the ATLAS detector," Phys. Rev. D **109**, no.11, 112012 (2024) doi:10.1103/PhysRevD.109.112012 [arXiv:2307.07584 [hep-ex]].

110. ATLAS:2023ixc G. Aad *et al.* [ATLAS], "Search for New Phenomena in Two-Body Invariant Mass Distributions Using Unsupervised Machine Learning for Anomaly Detection at s=13 TeV with the ATLAS Detector," Phys. Rev. Lett. **132**, no.8, 081801 (2024) doi:10.1103/PhysRevLett.132.081801 [arXiv:2307.01612 [hep-ex]].

111. ATLAS:2023afl G. Aad *et al.* [ATLAS], "Search for pair production of squarks or gluinos decaying via sleptons or weak bosons in final states with two same-sign or three leptons with the ATLAS detector," JHEP **02**, 107 (2024) doi:10.1007/JHEP02(2024)107 [arXiv:2307.01094 [hep-ex]].

112. ATLAS:2023prb G. Aad *et al.* [ATLAS], "Search for leptoquark pair production decaying into $te^-\bar{t}e^+$ or $t\mu^-\bar{t}\mu^+$ in multi-lepton final states in pp collisions at $\sqrt{s} = 13\,\text{TeV}$ with the ATLAS detector," Eur. Phys. J. C **84**, no.8, 818 (2024) doi:10.1140/epjc/s10052-024-12975-4 [arXiv:2306.17642 [hep-ex]].

113. ATLAS:2023tnc G. Aad *et al.* [ATLAS], "Measurement of the $H \to \gamma\gamma$ and $H \to ZZ^* \to 4\ell$ cross-sections in pp collisions at $\sqrt{s} = 13.6$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.1, 78 (2024) doi:10.1140/epjc/s10052-023-12130-5 [arXiv:2306.11379 [hep-ex]].

114. ATLAS:2023rvb G. Aad *et al.* [ATLAS], "Combination and summary of ATLAS dark matter searches interpreted in a 2HDM with a pseudo-scalar mediator using 139 fb^{-1} of $\sqrt{s}$=13 TeV pp collision data," Sci. Bull. **69**, no.19, 3005-3035 (2024) doi:10.1016/j.scib.2024.06.003 [arXiv:2306.00641 [hep-ex]].

115. ATLAS:2023swa G. Aad *et al.* [ATLAS], "Search for non-resonant production of semi-visible jets using Run 2 data in ATLAS," Phys. Lett. B **848**, 138324 (2024) doi:10.1016/j.physletb.2023.138324 [arXiv:2305.18037 [hep-ex]].

116. ATLAS:2023zkw G. Aad *et al.* [ATLAS], "Observation of $WZ\gamma$ Production in *pp* Collisions at $\sqrt{s}$=13 TeV with the ATLAS Detector," Phys. Rev. Lett. **132**, no.2, 021802 (2024) doi:10.1103/PhysRevLett.132.021802 [arXiv:2305.16994 [hep-ex]].

117. ATLAS:2023dns G. Aad *et al.* [ATLAS], "The ATLAS experiment at the CERN Large Hadron Collider: a description of the detector configuration for Run 3," JINST **19**, no.05, P05063 (2024) doi:10.1088/1748-0221/19/05/P05063 [arXiv:2305.16623 [physics.ins-det]].

118. ATLAS:2023mqy G. Aad *et al.* [ATLAS], "Test of CP-invariance of the Higgs boson in vector-boson fusion production and in its decay into four leptons," JHEP **05**, 105 (2024) doi:10.1007/JHEP05(2024)105 [arXiv:2304.09612 [hep-ex]].

119. ATLAS:2023taw G. Aad *et al.* [ATLAS], "Search for top-philic heavy resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **84**, no.2, 157 (2024) doi:10.1140/epjc/s10052-023-12318-9 [arXiv:2304.01678 [hep-ex]].

120. ATLAS:2023ajo G. Aad *et al.* [ATLAS], "Observation of four-top-quark production in the multilepton final state with the ATLAS detector," Eur. Phys. J. C **83**, no.6, 496 (2023) [erratum: Eur. Phys. J. C **84**, 156 (2024)] doi:10.1140/epjc/s10052-023-11573-0 [arXiv:2303.15061 [hep-ex]].

121. ATLAS:2023cbt G. Aad *et al.* [ATLAS], "Probing the CP nature of the top–Higgs Yukawa coupling in tt^-H and tH events with $\text{H}\to\text{bb}^-$ decays using the ATLAS detector at the LHC," Phys. Lett. B **849**, 138469 (2024) doi:10.1016/j.physletb.2024.138469 [arXiv:2303.05974 [hep-ex]].

122. ATLAS:2023lsr G. Aad *et al.* [ATLAS], "A precise measurement of the Z-boson double-differential transverse momentum and rapidity distributions in the full phase space of the decay leptons with the ATLAS experiment at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **84**, no.3, 315 (2024) doi:10.1140/epjc/s10052-024-12438-w [arXiv:2309.09318 [hep-ex]].

123. ATLAS:2022jhk G. Aad *et al.* [ATLAS], "Deep Generative Models for Fast Photon Shower Simulation in ATLAS," Comput. Softw. Big Sci. **8**, no.1, 7 (2024) doi:10.1007/s41781-023-00106-9 [arXiv:2210.06204 [hep-ex]].

124. ATLAS:2022per G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at s=13 TeV," Phys. Lett. B

842, 137379 (2023) [erratum: Phys. Lett. B **847**, 138286 (2024)] doi:10.1016/j.physletb.2022.137379 [arXiv:2205.02537 [hep-ex]].

125. ATLAS:2022zbu G. Aad *et al.* [ATLAS], "Measurements of the suppression and correlations of dijets in Pb+Pb collisions at sNN=5.02 TeV," Phys. Rev. C **107**, no.5, 054908 (2023) [erratum: Phys. Rev. C **109**, no.2, 029901 (2024)] doi:10.1103/PhysRevC.107.054908 [arXiv:2205.00682 [nucl-ex]].

126. G. Aad *et al.* [ATLAS], "Search for direct production of electroweakinos in final states with one lepton, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **12**, 167 (2023) doi:10.1007/JHEP12(2023)167 [arXiv:2310.08171 [hep-ex]].

127. G. Aad *et al.* [ATLAS], "Evidence of pair production of longitudinally polarised vector bosons and study of CP properties in ZZ $\to \ell$ events with the ATLAS detector at $\sqrt{s} = 13$ TeV," JHEP **12**, 107 (2023) doi:10.1007/JHEP12(2023)107 [arXiv:2310.04350 [hep-ex]].

128. G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral tqH interactions with H $\to$ $\gamma\gamma$ in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," JHEP **12**, 195 (2023) doi:10.1007/JHEP12(2023)195 [arXiv:2309.12817 [hep-ex]].

129. G. Aad *et al.* [ATLAS], "Search for vector-boson resonances decaying into a top quark and a bottom quark using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **12**, 073 (2023) doi:10.1007/JHEP12(2023)073 [arXiv:2308.08521 [hep-ex]].

130. G. Aad *et al.* [ATLAS], "Measurement of the Higgs boson mass with H$\to\gamma\gamma$ decays in 140 fb^{-1} of s=13 TeV pp collisions with the ATLAS detector," Phys. Lett. B **847**, 138315 (2023) doi:10.1016/j.physletb.2023.138315 [arXiv:2308.07216 [hep-ex]].

131. G. Aad *et al.* [ATLAS], "Search for magnetic monopoles and stable particles with high electric charges in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **11**, 112 (2023) doi:10.1007/JHEP11(2023)112 [arXiv:2308.04835 [hep-ex]].

132. G. Aad *et al.* [ATLAS], "Measurement of the $B_s^0 \to \mu\mu$ effective lifetime with the ATLAS detector," JHEP **09**, 199 (2023) doi:10.1007/JHEP09(2023)199 [arXiv:2308.01171 [hep-ex]].

133. G. Aad *et al.* [ATLAS], "Pursuit of paired dijet resonances in the Run 2 dataset with ATLAS," Phys. Rev. D **108**, no.11, 112005 (2023) doi:10.1103/PhysRevD.108.112005 [arXiv:2307.14944 [hep-ex]].

134. G. Aad *et al.* [ATLAS], "Search for heavy Higgs bosons with flavour-violating couplings in multi-lepton plus b-jets final states in pp collisions at 13 TeV with the ATLAS detector," JHEP **12**, 081 (2023) doi:10.1007/JHEP12(2023)081 [arXiv:2307.14759 [hep-ex]].

135. G. Aad *et al.* [ATLAS], "Search for a new heavy scalar particle decaying into a Higgs boson and a new scalar singlet in final states with one or two light leptons and a pair of τ leptons with the ATLAS detector," JHEP **10**, 009 (2023) doi:10.1007/JHEP10(2023)009 [arXiv:2307.11120 [hep-ex]].

136. G. Aad *et al.* [ATLAS], "Fast b-tagging at the high-level trigger of the ATLAS experiment in LHC Run 3," JINST **18**, no.11, P11006 (2023) doi:10.1088/1748-0221/18/11/P11006 [arXiv:2306.09738 [hep-ex]].

137. G. Aad *et al.* [ATLAS], "Search for dark photons in rare Z boson decays with the ATLAS detector," Phys. Rev. Lett. **131**, no.25, 251801 (2023) doi:10.1103/PhysRevLett.131.251801 [arXiv:2306.07413 [hep-ex]].

138. G. Aad *et al.* [ATLAS], "Anomaly detection search for new resonances decaying into a Higgs boson and a generic new particle X in hadronic final states using $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **108**, 052009 (2023) doi:10.1103/PhysRevD.108.052009 [arXiv:2306.03637 [hep-ex]].

139. G. Aad *et al.* [ATLAS], "Measurement of the cross-sections of the electroweak and total production of a $Z\gamma$ pair in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **846**, 138222 (2023) doi:10.1016/j.physletb.2023.138222 [arXiv:2305.19142 [hep-ex]].

140. G. Aad *et al.* [ATLAS], "Measurements of multijet event isotropies using optimal transport with the ATLAS detector," JHEP **10**, 060 (2023) doi:10.1007/JHEP10(2023)060 [arXiv:2305.16930 [hep-ex]].

141. G. Aad *et al.* [ATLAS], "Search for leptoquarks decaying into the bτ final state in pp collisions at $\sqrt{\mathrm{s}} = 13$ TeV with the ATLAS detector," JHEP **10**, 001 (2023) doi:10.1007/JHEP10(2023)001 [arXiv:2305.15962 [hep-ex]].

142. G. Aad *et al.* [ATLAS], "Search for Majorana neutrinos in same-sign WW scattering events from pp collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **83**, no.9, 824 (2023) doi:10.1140/epjc/s10052-023-11915-y [arXiv:2305.14931 [hep-ex]].

143. G. Aad *et al.* [ATLAS], "Search for dark matter produced in association with a Higgs boson decaying to tau leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **09**, 189 (2023) doi:10.1007/JHEP09(2023)189 [arXiv:2305.12938 [hep-ex]].

144. G. Aad *et al.* [ATLAS], "Search for periodic signals in the dielectron and diphoton invariant mass spectra using 139 fb^1 of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 079 (2023) doi:10.1007/JHEP10(2023)079 [arXiv:2305.10894 [hep-ex]].

145. G. Aad *et al.* [ATLAS], "Search for direct production of winos and higgsinos in events with two same-charge leptons or three leptons in pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **11**, 150 (2023) doi:10.1007/JHEP11(2023)150 [arXiv:2305.09322 [hep-ex]].

146. G. Aad *et al.* [ATLAS], "Search for single production of vector-like T quarks decaying into Ht or Zt in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 153 (2023) doi:10.1007/JHEP08(2023)153 [arXiv:2305.03401 [hep-ex]].

147. G. Aad *et al.* [ATLAS], "Search for pairs of muons with small displacements in pp collisions at s=13 TeV with the ATLAS detector," Phys. Lett. B **846**, 138172 (2023) doi:10.1016/j.physletb.2023.138172 [arXiv:2305.02005 [hep-ex]].

148. G. Aad *et al.* [ATLAS], "Search for a new pseudoscalar decaying into a pair of muons in events with a top-quark pair at s=13 TeV with the ATLAS detector," Phys. Rev. D **108**, no.9, 092007 (2023) doi:10.1103/PhysRevD.108.092007 [arXiv:2304.14247 [hep-ex]].

149. G. Aad *et al.* [ATLAS], "Performance of the reconstruction of large impact parameter tracks in the inner detector of ATLAS," Eur. Phys. J. C **83**, no.11, 1081 (2023) doi:10.1140/epjc/s10052-023-12024-6 [arXiv:2304.12867 [hep-ex]].

150. G. Aad *et al.* [ATLAS], "Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in s=13 TeV pp collisions," Phys. Rev. D **108**, no.1, 012012 (2023) doi:10.1103/PhysRevD.108.012012 [arXiv:2304.12885 [hep-ex]].

151. G. Aad *et al.* [ATLAS], "Search for high-mass Wγ and Zγ resonances using hadronic W/Z boson decays from 139 fb^1 of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 125 (2023) doi:10.1007/JHEP07(2023)125 [arXiv:2304.11962 [hep-ex]].

152. G. Aad *et al.* [ATLAS], "Search for an axion-like particle with forward proton scattering in association with photon pairs at ATLAS," JHEP **07**, 234 (2023) doi:10.1007/JHEP07(2023)234 [arXiv:2304.10953 [hep-ex]].

153. G. Aad *et al.* [ATLAS], "Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with charged leptons and jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.12, 1164 (2023) doi:10.1140/epjc/s10052-023-12021-9 [arXiv:2304.09553 [hep-ex]].

154. G. Aad *et al.* [ATLAS], "Observation of an Excess of Dicharmonium Events in the Four-Muon Final State with the ATLAS Detector," Phys. Rev. Lett. **131**, no.15, 151902 (2023) doi:10.1103/PhysRevLett.131.151902 [arXiv:2304.08962 [hep-ex]].

155. G. Aad *et al.* [ATLAS], "Fiducial and differential cross-section measurements for the vector-boson-fusion production of the Higgs boson in the $H \to WW^* \to e\nu\mu\nu$ decay channel at 13 TeV with the ATLAS detector," Phys. Rev. D **108**, no.7, 072003 (2023) doi:10.1103/PhysRevD.108.072003 [arXiv:2304.03053 [hep-ex]].

156. G. Aad *et al.* [ATLAS], "Evidence of off-shell Higgs boson production from ZZ leptonic decay channels and constraints on its total width with the ATLAS detector," Phys. Lett. B **846**, 138223 (2023) doi:10.1016/j.physletb.2023.138223 [arXiv:2304.01532 [hep-ex]].

157. G. Aad *et al.* [ATLAS], "New techniques for jet calibration with the ATLAS detector," Eur. Phys. J. C **83**, no.8, 761 (2023) doi:10.1140/epjc/s10052-023-11837-9 [arXiv:2303.17312 [hep-ex]].

158. G. Aad *et al.* [ATLAS], "Measurement of the Sensitivity of Two-Particle Correlations in pp Collisions to the Presence of Hard Scatterings," Phys. Rev. Lett. **131**, no.16, 162301 (2023) doi:10.1103/PhysRevLett.131.162301 [arXiv:2303.17357 [nucl-ex]].

159. G. Aad *et al.* [ATLAS], "Observation of four-top-quark production in the multilepton final state with the ATLAS detector," Eur. Phys. J. C **83**, no.6, 496 (2023) doi:10.1140/epjc/s10052-023-11573-0 [arXiv:2303.15061 [hep-ex]].

160. G. Aad *et al.* [ATLAS], "Inclusive and differential cross-sections for dilepton $t\bar{t}$ production measured in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **07**, 141 (2023) doi:10.1007/JHEP07(2023)141 [arXiv:2303.15340 [hep-ex]].

161. G. Aad *et al.* [ATLAS], "Search for heavy long-lived multi-charged particles in the full LHC Run 2 pp collision data at s=13 TeV using the ATLAS detector," Phys. Lett. B **847**, 138316 (2023) doi:10.1016/j.physletb.2023.138316 [arXiv:2303.13613 [hep-ex]].

162. G. Aad *et al.* [ATLAS], "Comparison of inclusive and photon-tagged jet suppression in 5.02 TeV Pb+Pb collisions with ATLAS," Phys. Lett. B **846**, 138154 (2023) doi:10.1016/j.physletb.2023.138154 [arXiv:2303.10090 [nucl-ex]].

163. G. Aad *et al.* [ATLAS], "Search for excited τ-leptons and leptoquarks in the final state with τ-leptons and jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 199 (2023) doi:10.1007/JHEP06(2023)199 [arXiv:2303.09444 [hep-ex]].

164. G. Aad *et al.* [ATLAS], "Search for third-generation vector-like leptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 118 (2023) doi:10.1007/JHEP07(2023)118 [arXiv:2303.05441 [hep-ex]].

165. G. Aad *et al.* [ATLAS], "Search for pair production of third-generation leptoquarks decaying into a bottom quark and a τ-lepton with the ATLAS detector," Eur. Phys. J. C **83**, no.11, 1075 (2023) doi:10.1140/epjc/s10052-023-12104-7 [arXiv:2303.01294 [hep-ex]].

166. G. Aad *et al.* [ATLAS], "Search for a light charged Higgs boson in $t \to H^{\pm}b$ decays, with $H^{\pm} \to cb$, in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **09**, 004 (2023) doi:10.1007/JHEP09(2023)004 [arXiv:2302.11739 [hep-ex]].

167. G. Aad *et al.* [ATLAS], "Searches for lepton-flavour-violating decays of the Higgs boson into $e\tau$ and $\mu\tau$ in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **07**, 166 (2023) doi:10.1007/JHEP07(2023)166 [arXiv:2302.05225 [hep-ex]].

168. G. Aad *et al.* [ATLAS], "Measurements of the suppression and correlations of dijets in Xe+Xe collisions at sNN=5.44 TeV," Phys. Rev. C **108**, no.2, 024906 (2023) doi:10.1103/PhysRevC.108.024906 [arXiv:2302.03967 [nucl-ex]].

169. G. Aad *et al.* [ATLAS], "Observation of Single-Top-Quark Production in Association with a Photon Using the ATLAS Detector," Phys. Rev. Lett. **131**, no.18, 181901 (2023) doi:10.1103/PhysRevLett.131.1 [arXiv:2302.01283 [hep-ex]].

170. G. Aad *et al.* [ATLAS], "Measurement of the production of a W boson in association with a charmed hadron in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **108**, 032012 (2023) doi:10.1103/PhysRevD.108.032012 [arXiv:2302.00336 [hep-ex]].

171. G. Aad *et al.* [ATLAS], "Inclusive-photon production and its dependence on photon isolation in pp collisions at $\sqrt{s} = 13$ TeV using 139 fb^{-1} of ATLAS data," JHEP **07**, 086 (2023) doi:10.1007/JHEP07(2023)086 [arXiv:2302.00510 [hep-ex]].

172. G. Aad *et al.* [ATLAS], "Search for long-lived, massive particles in events with displaced vertices and multiple jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **2306**, 200 (2023) doi:10.1007/JHEP06(2023)200 [arXiv:2301.13866 [hep-ex]].

173. G. Aad *et al.* [ATLAS], "Search for flavor-changing neutral-current couplings between the top quark and the Z boson with proton-proton collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **108**, no.3, 032019 (2023) doi:10.1103/PhysRevD.108.032019 [arXiv:2301.11605 [hep-ex]].

174. G. Aad *et al.* [ATLAS], "Combination of searches for invisible decays of the Higgs boson using 139 fb^{-1} of proton-proton collision data at s=13 TeV collected with the ATLAS experiment," Phys. Lett. B **842**, 137963 (2023) doi:10.1016/j.physletb.2023.137963 [arXiv:2301.10731 [hep-ex]].

175. G. Aad *et al.* [ATLAS], "Model-independent search for the presence of new physics in events including $H \to \gamma\gamma$ with $\sqrt{s} = 13$ TeV pp data recorded by the ATLAS detector at the LHC," JHEP **07**, 176 (2023) doi:10.1007/JHEP07(2023)176 [arXiv:2301.10486 [hep-ex]].

176. G. Aad *et al.* [ATLAS], "Search for exclusive Higgs and Z boson decays to $\omega\gamma$ and Higgs boson decays to $K^*\gamma$ with the ATLAS detector," Phys. Lett. B **847**, 138292 (2023) doi:10.1016/j.physletb.2023.138292 [arXiv:2301.09938 [hep-ex]].

177. G. Aad *et al.* [ATLAS], "Search for a new Z' gauge boson in 4μ events with the ATLAS experiment," JHEP **07**, 090 (2023) doi:10.1007/JHEP07(2023)090 [arXiv:2301.09342 [hep-ex]].

178. G. Aad *et al.* [ATLAS], "Determination of the strong coupling constant from transverse energy−energy correlations in multijet events at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 085 (2023) doi:10.1007/JHEP07(2023)085 [arXiv:2301.09351 [hep-ex]].

179. G. Aad *et al.* [ATLAS], "Measurements of differential cross sections of Higgs boson production through gluon fusion in the $H \to WW^* \to e\nu\mu\nu$ final state at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.9, 774 (2023) doi:10.1140/epjc/s10052-023-11873-5 [arXiv:2301.06822 [hep-ex]].

180. G. Aad *et al.* [ATLAS], "Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139 fb^{-1} of ATLAS proton–proton collision data at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **83**, no.8, 728 (2023) doi:10.1140/epjc/s10052-023-11736-z [arXiv:2301.06319 [hep-ex]].

181. G. Aad *et al.* [ATLAS], "Measurement of Suppression of Large-Radius Jets and Its Dependence on Substructure in Pb+Pb Collisions at sNN=5.02 TeV with the ATLAS Detector," Phys. Rev. Lett. **131**, no.17, 172301 (2023) doi:10.1103/PhysRevLett.131.172301 [arXiv:2301.05606 [nucl-ex]].

182. G. Aad *et al.* [ATLAS], "Search for a new scalar resonance in flavour-changing neutral-current top-quark decays $t \to qX$ ($q = u, c$), with $X \to b\bar{b}$, in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 199 (2023) doi:10.1007/JHEP07(2023)199 [arXiv:2301.03902 [hep-ex]].

183. G. Aad *et al.* [ATLAS], "Search for leptonic charge asymmetry in $t\bar{t}W$ production in final states with three leptons at $\sqrt{s} = 13$ TeV," JHEP **07**, 033 (2023) doi:10.1007/JHEP07(2023)033 [arXiv:2301.04245 [hep-ex]].

184. G. Aad *et al.* [ATLAS], "Search for nonresonant pair production of Higgs bosons in the bb^{-}bb^{-} final state in pp collisions at s=13 TeV with the ATLAS detector," Phys. Rev. D **108**, no.5, 052003 (2023) doi:10.1103/PhysRevD.108.052003 [arXiv:2301.03212 [hep-ex]].

185. G. Aad *et al.* [ATLAS], "Measurement of the charge asymmetry in top-quark pair production in association with a photon with the ATLAS experiment," Phys. Lett. B **843**, 137848 (2023) doi:10.1016/j.physletb.2023.137848 [arXiv:2212.10552 [hep-ex]].

186. G. Aad *et al.* [ATLAS], "Luminosity determination in *pp* collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC," Eur. Phys. J. C **83**, no.10, 982 (2023) doi:10.1140/epjc/s10052-023-11747-w [arXiv:2212.09379 [hep-ex]].

187. G. Aad *et al.* [ATLAS], "Search for dark photons from Higgs boson decays via ZH production with a photon plus missing transverse momentum signature from *pp* collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," JHEP **07**, 133 (2023) doi:10.1007/JHEP07(2023)133 [arXiv:2212.09649 [hep-ex]].

188. G. Aad *et al.* [ATLAS], "Measurements of $Z\gamma$+jets differential cross sections in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 072 (2023) doi:10.1007/JHEP07(2023)072 [arXiv:2212.07184 [hep-ex]].

189. G. Aad *et al.* [ATLAS], "Studies of the muon momentum calibration and performance of the ATLAS detector with *pp* collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **83**, no.8, 686 (2023) doi:10.1140/epjc/s10052-023-11584-x [arXiv:2212.07338 [hep-ex]].

190. G. Aad *et al.* [ATLAS], "Measurement of the CP properties of Higgs boson interactions with τ-leptons with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 563 (2023) doi:10.1140/epjc/s10052-023-11583-y [arXiv:2212.05833 [hep-ex]].

191. G. Aad *et al.* [ATLAS], "Search for pair-produced vector-like top and bottom partners in events with large missing transverse momentum in pp collisions with the ATLAS detector," Eur. Phys. J. C **83**, no.8, 719 (2023) doi:10.1140/epjc/s10052-023-11790-7 [arXiv:2212.05263 [hep-ex]].

192. G. Aad *et al.* [ATLAS], "Measurement of exclusive pion pair production in proton–proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 627 (2023) doi:10.1140/epjc/s10052-023-11700-x [arXiv:2212.00664 [hep-ex]].

193. M. Aaboud *et al.* [ATLAS], "Measurement of the inclusive tt^{-} production cross section in the lepton+jets channel in pp collisions at s=7 TeV with the ATLAS detector using support vector machines," Phys. Rev. D **108**, no.3, 032014 (2023) doi:10.1103/PhysRevD.108.032014 [arXiv:2212.00571 [hep-ex]].

194. G. Aad *et al.* [ATLAS], "Tools for estimating fake/non-prompt lepton backgrounds with the ATLAS detector at the LHC," JINST **18**, no.11, T11004 (2023) doi:10.1088/1748-0221/18/11/T11004 [arXiv:2211.16178 [hep-ex]].

195. G. Aad *et al.* [ATLAS], "Charged-hadron production in *pp*, *p*+Pb, Pb+Pb, and Xe+Xe collisions at $\sqrt{s_{\mathrm{NN}}} = 5$ TeV with the ATLAS detector at the LHC," JHEP **07**, 074 (2023) doi:10.1007/JHEP07(2023)074 [arXiv:2211.15257 [hep-ex]].

196. G. Aad *et al.* [ATLAS], "Measurement of $Z\gamma\gamma$ production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.6, 539 (2023) doi:10.1140/epjc/s10052-023-11579-8 [arXiv:2211.14171 [hep-ex]].

197. G. Aad *et al.* [ATLAS], "ATLAS flavour-tagging algorithms for the LHC Run 2 pp collision dataset," Eur. Phys. J. C **83**, no.7, 681 (2023) doi:10.1140/epjc/s10052-023-11699-1 [arXiv:2211.16345 [physics.data-an]].

198. G. Aad *et al.* [ATLAS], "Search for dark matter produced in association with a single top quark and an energetic W boson in $\sqrt{s} = 13$ TeV *pp* collisions with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 603 (2023) doi:10.1140/epjc/s10052-023-11582-z [arXiv:2211.13138 [hep-ex]].

199. G. Aad *et al.* [ATLAS], "Measurement of substructure-dependent jet suppression in Pb+Pb collisions at 5.02 TeV with the ATLAS detector," Phys. Rev. C **107**, no.5, 054909 (2023) doi:10.1103/PhysRevC.107.054909 [arXiv:2211.11470 [nucl-ex]].

200. G. Aad *et al.* [ATLAS], "Observation of gauge boson joint-polarisation states in $\mathrm{W}^{\pm}\mathrm{Z}$ production from pp collisions at s=13 TeV with the ATLAS detector," Phys. Lett. B **843**, 137895 (2023) doi:10.1016/j.physletb.2023.137895 [arXiv:2211.09435 [hep-ex]].

201. G. Aad *et al.* [ATLAS], "Search for new phenomena in multi-body invariant masses in events with at least one isolated lepton and two jets using $\sqrt{s} = 13$ TeV proton–proton collision data collected by the ATLAS detector," JHEP **07**, 202 (2023) doi:10.1007/JHEP07(2023)202 [arXiv:2211.08945 [hep-ex]].

202. G. Aad *et al.* [ATLAS], "Search for supersymmetry in final states with missing transverse momentum and three or more b-jets in 139 fb^{-1} of proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 561 (2023) doi:10.1140/epjc/s10052-023-11543-6 [arXiv:2211.08028 [hep-ex]].

203. G. Aad *et al.* [ATLAS], "Search for doubly charged Higgs boson production in multi-lepton final states using 139 fb^{-1} of proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 605 (2023) doi:10.1140/epjc/s10052-023-11578-9 [arXiv:2211.07505 [hep-ex]].

204. G. Aad *et al.* [ATLAS], "Search for dark matter produced in association with a dark Higgs boson decaying into W^+W^- in the one-lepton final state at $\sqrt{s}$=13 TeV using 139 fb^{-1} of *pp* collisions recorded with the ATLAS detector," JHEP **07**, 116 (2023) doi:10.1007/JHEP07(2023)116 [arXiv:2211.07175 [hep-ex]].

205. G. Aad *et al.* [ATLAS], "Constraints on spin-0 dark matter mediators and invisible Higgs decays using ATLAS 13 TeV *pp* collision data with two top quarks and missing transverse momentum in the final state," Eur. Phys. J. C **83**, no.6, 503 (2023) doi:10.1140/epjc/s10052-023-11477-z [arXiv:2211.05426 [hep-ex]].

206. G. Aad *et al.* [ATLAS], "Search for boosted diphoton resonances in the 10 to 70 GeV mass range using 138 fb^1 of 13 TeV pp collisions with the ATLAS detector," JHEP **07**, 155 (2023) doi:10.1007/JHEP07(2023)155 [arXiv:2211.04172 [hep-ex]].

207. G. Aad *et al.* [ATLAS], "A search for heavy Higgs bosons decaying into vector bosons in same-sign two-lepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 200 (2023) doi:10.1007/JHEP07(2023)200 [arXiv:2211.02617 [hep-ex]].

208. G. Aad *et al.* [ATLAS], "Search for $t\bar{t}H/A \to t\bar{t}t\bar{t}$ production in the multilepton final state in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 203 (2023) doi:10.1007/JHEP07(2023)203 [arXiv:2211.01136 [hep-ex]].

209. G. Aad *et al.* [ATLAS], "Constraints on the Higgs boson self-coupling from single- and double-Higgs production with the ATLAS detector using pp collisions at s=13 TeV," Phys. Lett. B **843**, 137745 (2023) doi:10.1016/j.physletb.2023.137745 [arXiv:2211.01216 [hep-ex]].

210. G. Aad *et al.* [ATLAS], "Search for pair-production of vector-like quarks in pp collision events at s=13 TeV with at least one leptonically decaying Z boson and a third-generation quark with the ATLAS detector," Phys. Lett. B **843**, 138019 (2023) doi:10.1016/j.physletb.2023.138019 [arXiv:2210.15413 [hep-ex]].

211. G. Aad *et al.* [ATLAS], "Search for Higgs boson pair production in association with a vector boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.6, 519 (2023) doi:10.1140/epjc/s10052-023-11559-y [arXiv:2210.05415 [hep-ex]].

212. G. Aad *et al.* [ATLAS], "Search for pair-produced scalar and vector leptoquarks decaying into third-generation quarks and first- or second-generation leptons in pp collisions with the ATLAS detector," JHEP **2306**, 188 (2023) doi:10.1007/JHEP06(2023)188 [arXiv:2210.04517 [hep-ex]].

213. G. Aad *et al.* [ATLAS], "A search for new resonances in multiple final states with a high transverse momentum Z boson in $\sqrt{s} = 13$ TeV *pp* collisions with the ATLAS detector," JHEP **06**, 036 (2023) doi:10.1007/JHEP06(2023)036 [arXiv:2209.15345 [hep-ex]].

214. G. Aad *et al.* [ATLAS], "Measurement of the polarisation of W bosons produced in top-quark decays using dilepton events at s=13 TeV with the ATLAS experiment," Phys. Lett. B **843**, 137829 (2023) doi:10.1016/j.physletb.2023.137829 [arXiv:2209.14903 [hep-ex]].

215. G. Aad *et al.* [ATLAS], "Search for direct pair production of sleptons and charginos decaying to two leptons and neutralinos with mass splittings near the W-boson mass in $\sqrt{s} = 13$ TeV

pp collisions with the ATLAS detector," JHEP **06**, 031 (2023) doi:10.1007/JHEP06(2023)031 [arXiv:2209.13935 [hep-ex]].

216. G. Aad *et al.* [ATLAS], "Search for resonant and non-resonant Higgs boson pair production in the $b\bar{b}\tau^+\tau^-$ decay channel using 13 TeV pp collision data from the ATLAS detector," JHEP **07**, 040 (2023) doi:10.1007/JHEP07(2023)040 [arXiv:2209.10910 [hep-ex]].

217. G. Aad *et al.* [ATLAS], "Measurement of single top-quark production in the s-channel in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 191 (2023) doi:10.1007/JHEP06(2023)191 [arXiv:2209.08990 [hep-ex]].

218. G. Aad *et al.* [ATLAS], "Measurements of observables sensitive to colour reconnection in $t\bar{t}$ events with the ATLAS detector at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **83**, no.6, 518 (2023) doi:10.1140/epjc/s10052-023-11479-x [arXiv:2209.07874 [hep-ex]].

219. G. Aad *et al.* [ATLAS], "Search for displaced photons produced in exotic decays of the Higgs boson using 13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **108**, no.3, 032016 (2023) doi:10.1103/PhysRevD.108.032016 [arXiv:2209.01029 [hep-ex]].

220. G. Aad *et al.* [ATLAS], "Measurement of the top-quark mass using a leptonic invariant mass in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 019 (2023) doi:10.1007/JHEP06(2023)019 [arXiv:2209.00583 [hep-ex]].

221. G. Aad *et al.* [ATLAS], "Measurement of electroweak $Z(\nu\overline{\nu})\gamma jj$ production and limits on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 082 (2023) doi:10.1007/JHEP06(2023)082 [arXiv:2208.12741 [hep-ex]].

222. G. Aad *et al.* [ATLAS], "Evidence for the charge asymmetry in pp $\rightarrow t\bar{t}$ production at $\sqrt{s}$ = 13 TeV with the ATLAS detector," JHEP **08**, 077 (2023) doi:10.1007/JHEP08(2023)077 [arXiv:2208.12095 [hep-ex]].

223. G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral current interactions of the top quark and the Higgs boson in events with a pair of τ-leptons in pp collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," JHEP **2306**, 155 (2023) doi:10.1007/JHEP06(2023)155 [arXiv:2208.11415 [hep-ex]].

224. G. Aad *et al.* [ATLAS], "Searches for exclusive Higgs and Z boson decays into a vector quarkonium state and a photon using 139 fb^{-1} of ATLAS $\sqrt{s} = 13$ TeV proton–proton collision data," Eur. Phys. J. C **83**, no.9, 781 (2023) doi:10.1140/epjc/s10052-023-11869-1 [arXiv:2208.03122 [hep-ex]].

225. G. Aad *et al.* [ATLAS], "Test of CP Invariance in Higgs Boson Vector-Boson-Fusion Production Using the H$\rightarrow\gamma\gamma$ Channel with the ATLAS Detector," Phys. Rev. Lett. **131**, no.6, 061802 (2023) doi:10.1103/PhysRevLett.131.061802 [arXiv:2208.02338 [hep-ex]].

226. G. Aad *et al.* [ATLAS], "Exclusive dielectron production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with ATLAS," JHEP **2306**, 182 (2023) doi:10.1007/JHEP06(2023)182 [arXiv:2207.12781 [nucl-ex]].

227. G. Aad *et al.* [ATLAS], "Measurement of the total cross section and ρ-parameter from elastic scattering in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.5, 441 (2023) doi:10.1140/epjc/s10052-023-11436-8 [arXiv:2207.12246 [hep-ex]].

228. G. Aad *et al.* [ATLAS], "Measurement of the total and differential Higgs boson production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector by combining the H $\rightarrow$ ZZ$^*\rightarrow \ell($ and H $\rightarrow \gamma\,\gamma$ decay channels," JHEP **05**, 028 (2023) doi:10.1007/JHEP05(2023)028 [arXiv:2207.08615 [hep-ex]].

229. G. Aad *et al.* [ATLAS], "Search for resonant WZ production in the fully leptonic final state in proton–proton collisions at $\sqrt{\mathbf{s}} = \mathbf{13}$ TeV with the ATLAS detector," Eur. Phys. J. C **83**, no.7, 633 (2023) doi:10.1140/epjc/s10052-023-11437-7 [arXiv:2207.03925 [hep-ex]].

230. G. Aad *et al.* [ATLAS], "Measurement of the $t\bar{t}$ production cross-section in pp collisions at $\sqrt{s}$ = 5.02 TeV with the ATLAS detector," JHEP **06**, 138 (2023) doi:10.1007/JHEP06(2023)138 [arXiv:2207.01354 [hep-ex]].

231. G. Aad *et al.* [ATLAS], "Search for heavy resonances decaying into a Z or W boson and a Higgs boson in final states with leptons and b-jets in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 016 (2023) doi:10.1007/JHEP06(2023)016 [arXiv:2207.00230 [hep-ex]].

232. G. Aad *et al.* [ATLAS], "Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using $H \to WW^* \to e\nu\mu\nu$ decays in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **108**, 032005 (2023) doi:10.1103/PhysRevD.108.032005 [arXiv:2207.00338 [hep-ex]].

233. G. Aad *et al.* [ATLAS], "Measurement of the properties of Higgs boson production at $\sqrt{s} = 13$ TeV in the $H \to \gamma\gamma$ channel using 139 fb^{-1} of pp collision data with the ATLAS experiment," JHEP **07**, 088 (2023) doi:10.1007/JHEP07(2023)088 [arXiv:2207.00348 [hep-ex]].

234. G. Aad *et al.* [ATLAS], "Measurement of the Higgs boson mass in the $H \to ZZ^* \to 4\ell$ decay channel using 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions recorded by the ATLAS detector at the LHC," Phys. Lett. B **843**, 137880 (2023) doi:10.1016/j.physletb.2023.137880 [arXiv:2207.00320 [hep-ex]].

235. G. Aad *et al.* [ATLAS], "Measurements of W^+W^- production in decay topologies inspired by searches for electroweak supersymmetry," Eur. Phys. J. C **83**, no.8, 718 (2023) doi:10.1140/epjc/s10052-023-11508-9 [arXiv:2206.15231 [hep-ex]].

236. G. Aad *et al.* [ATLAS], "Measurement of muon pairs produced via γ γ scattering in nonultraperipheral Pb+Pb collisions at sNN=5.02 TeV with the ATLAS detector," Phys. Rev. C **107**, no.5, 054907 (2023) doi:10.1103/PhysRevC.107.054907 [arXiv:2206.12594 [nucl-ex]].

237. G. Aad *et al.* [ATLAS], "Search for light long-lived neutral particles that decay to collimated pairs of leptons or light hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 153 (2023) doi:10.1007/JHEP06(2023)153 [arXiv:2206.12181 [hep-ex]].

238. G. Aad *et al.* [ATLAS], "Search for new phenomena in final states with photons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 021 (2023) doi:10.1007/JHEP07(2023)021 [arXiv:2206.06012 [hep-ex]].

239. G. Aad *et al.* [ATLAS], "Strong Constraints on Jet Quenching in Centrality-Dependent p+Pb Collisions at 5.02 TeV from ATLAS," Phys. Rev. Lett. **131**, no.7, 072301 (2023) doi:10.1103/PhysRevLett.131.072301 [arXiv:2206.01138 [nucl-ex]].

240. G. Aad *et al.* [ATLAS and CMS], "Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV," JHEP **07**, 213 (2023) doi:10.1007/JHEP07(2023)213 [arXiv:2205.13830 [hep-ex]].

241. G. Aad *et al.* [ATLAS], "Search for heavy, long-lived, charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment and the full Run 2 dataset," JHEP **2306**, 158 (2023) doi:10.1007/JHEP06(2023)158 [arXiv:2205.06013 [hep-ex]].

242. G. Aad *et al.* [ATLAS], "Production of Υ (nS) mesons in Pb+Pb and pp collisions at 5.02 TeV," Phys. Rev. C **107**, no.5, 054912 (2023) doi:10.1103/PhysRevC.107.054912 [arXiv:2205.03042 [nucl-ex]].

243. G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at s=13 TeV," Phys. Lett. B **842**, 137379 (2023) doi:10.1016/j.physletb.2022.137379 [arXiv:2205.02537 [hep-ex]].

244. G. Aad *et al.* [ATLAS], "Cross-section measurements for the production of a Z boson in association with high-transverse-momentum jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 080 (2023) doi:10.1007/JHEP06(2023)080 [arXiv:2205.02597 [hep-ex]].

245. G. Aad *et al.* [ATLAS], "Differential $t\bar{t}$ cross-section measurements using boosted top quarks in the all-hadronic final state with 139 fb^1 of ATLAS data," JHEP **04**, 080 (2023) doi:10.1007/JHEP04(2023)080 [arXiv:2205.02817 [hep-ex]].

246. G. Aad *et al.* [ATLAS], "Measurements of the suppression and correlations of dijets in Pb+Pb collisions at sNN=5.02 TeV," Phys. Rev. C **107**, no.5, 054908 (2023) doi:10.1103/PhysRevC.107.054908 [arXiv:2205.00682 [nucl-ex]].

247. G. Aad *et al.* [ATLAS], "Correlations between flow and transverse momentum in Xe+Xe and Pb+Pb collisions at the LHC with the ATLAS detector: A probe of the heavy-ion initial state and nuclear deformation," Phys. Rev. C **107**, no.5, 054910 (2023) doi:10.1103/PhysRevC.107.054910 [arXiv:2205.00039 [nucl-ex]].

248. G. Aad *et al.* [ATLAS], "Observation of the $\gamma\ \gamma \to \tau\ \tau$ Process in Pb+Pb Collisions and Constraints on the τ -Lepton Anomalous Magnetic Moment with the ATLAS Detector," Phys. Rev. Lett. **131**, no.15, 151802 (2023) doi:10.1103/PhysRevLett.131.151802 [arXiv:2204.13478 [hep-ex]].

249. G. Aad *et al.* [ATLAS], "Measurement of the nuclear modification factor of b-jets in 5.02 TeV Pb+Pb collisions with the ATLAS detector," Eur. Phys. J. C **83**, no.5, 438 (2023) doi:10.1140/epjc/s10052-023-11427-9 [arXiv:2204.13530 [nucl-ex]].

250. G. Aad *et al.* [ATLAS], "Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **83**, no.6, 515 (2023) doi:10.1140/epjc/s10052-023-11434-w [arXiv:2204.13072 [hep-ex]].

251. G. Aad *et al.* [ATLAS], "Measurement of cross-sections for production of a Z boson in association with a flavor-inclusive or doubly b-tagged large-radius jet in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment," Phys. Rev. D **108**, no.1, 012022 (2023) doi:10.1103/PhysRevD.108.012022 [arXiv:2204.12355 [hep-ex]].

252. G. Aad *et al.* [ATLAS], "Search for Heavy Neutral Leptons in Decays of W Bosons Using a Dilepton Displaced Vertex in s=13 TeV pp Collisions with the ATLAS Detector," Phys. Rev. Lett. **131**, no.6, 061803 (2023) doi:10.1103/PhysRevLett.131.061803 [arXiv:2204.11988 [hep-ex]].

253. G. Aad *et al.* [ATLAS], "Search for the charged-lepton-flavor-violating decay $Z \to e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **108**, 032015 (2023) doi:10.1103/PhysRevD.108.032015 [arXiv:2204.10783 [hep-ex]].

254. G. Aad *et al.* [ATLAS], "Observation of electroweak production of two jets and a Z-boson pair," Nature Phys. **19**, no.2, 237-253 (2023) doi:10.1038/s41567-022-01757-y [arXiv:2004.10612 [hep-ex]].

255. G. Aad *et al.* [ATLAS], "Search for lepton-flavour violation in high-mass dilepton final states using 139 fb[1] of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **23**, 082 (2020) doi:10.1007/JHEP10(2023)082 [arXiv:2307.08567 [hep-ex]].

256. G. Aad *et al.* [ATLAS], "Search for single vector-like B quark production and decay via B $\rightarrow$ bH($b\bar{b}$) in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **23**, 168 (2020) doi:10.1007/JHEP11(2023)168 [arXiv:2308.02595 [hep-ex]].

257. G. Aad *et al.* [ATLAS], "Study of $B_c^+ \rightarrow J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^{*+}$ decays in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 087 (2022) doi:10.1007/JHEP08(2022)087 [arXiv:2203.01808 [hep-ex]].

258. G. Aad *et al.* [ATLAS], "Search for neutral long-lived particles in *pp* collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter," JHEP **06**, 005 (2022) doi:10.1007/JHEP06(2022)005 [arXiv:2203.01009 [hep-ex]].

259. G. Aad *et al.* [ATLAS], "Search for events with a pair of displaced vertices from long-lived neutral particles decaying into hadronic jets in the ATLAS muon spectrometer in pp collisions at $\sqrt{s}$=13 TeV," Phys. Rev. D **106**, no.3, 032005 (2022) doi:10.1103/PhysRevD.106.032005 [arXiv:2203.00587 [hep-ex]].

260. G. Aad *et al.* [ATLAS], "Measurements of jet observables sensitive to b-quark fragmentation in tt^- events at the LHC with the ATLAS detector," Phys. Rev. D **106**, no.3, 032008 (2022) doi:10.1103/PhysRevD.106.032008 [arXiv:2202.13901 [hep-ex]].

261. G. Aad *et al.* [ATLAS], "Measurements of differential cross-sections in top-quark pair events with a high transverse momentum top quark and limits on beyond the Standard Model contributions to top-quark pair production with the ATLAS detector at $\sqrt{s} = 13$ TeV," JHEP **06**, 063 (2022) doi:10.1007/JHEP06(2022)063 [arXiv:2202.12134 [hep-ex]].

262. G. Aad *et al.* [ATLAS], "Measurement of the polarisation of single top quarks and antiquarks produced in the t-channel at $\sqrt{s} = 13$ TeV and bounds on the tWb dipole operator from the ATLAS experiment," JHEP **11**, 040 (2022) doi:10.1007/JHEP11(2022)040 [arXiv:2202.11382 [hep-ex]].

263. G. Aad *et al.* [ATLAS], "Search for invisible Higgs-boson decays in events with vector-boson fusion signatures using 139 fb^{-1} of proton-proton data recorded by the ATLAS experiment," JHEP **08**, 104 (2022) doi:10.1007/JHEP08(2022)104 [arXiv:2202.07953 [hep-ex]].

264. G. Aad *et al.* [ATLAS], "Search for resonant pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **105**, no.9, 092002 (2022) doi:10.1103/PhysRevD.105.092002 [arXiv:2202.07288 [hep-ex]].

265. G. Aad *et al.* [ATLAS], "Search for type-III seesaw heavy leptons in leptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **82**, no.11, 988 (2022) doi:10.1140/epjc/s10052-022-10785-0 [arXiv:2202.02039 [hep-ex]].

266. G. Aad *et al.* [ATLAS], "Two-particle Bose–Einstein correlations in *pp* collisions at $\sqrt{\mathbf{s}} = \mathbf{13}$ TeV measured with the ATLAS detector at the LHC," Eur. Phys. J. C **82**, no.7, 608 (2022) doi:10.1140/epjc/s10052-022-10472-0 [arXiv:2202.02218 [hep-ex]].

267. G. Aad *et al.* [ATLAS], "Measurements of the Higgs boson inclusive and differential fiducial cross-sections in the diphoton decay channel with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 027 (2022) doi:10.1007/JHEP08(2022)027 [arXiv:2202.00487 [hep-ex]].

268. G. Aad *et al.* [ATLAS], "Observation of WWW Production in pp Collisions at $\sqrt{s}$ =13 TeV with the ATLAS Detector," Phys. Rev. Lett. **129**, no.6, 061803 (2022) doi:10.1103/PhysRevLett.129.061803 [arXiv:2201.13045 [hep-ex]].

269. G. Aad *et al.* [ATLAS], "Direct constraint on the Higgs-charm coupling from a search for Higgs boson decays into charm quarks with the ATLAS detector," Eur. Phys. J. C **82**, 717 (2022) doi:10.1140/epjc/s10052-022-10588-3 [arXiv:2201.11428 [hep-ex]].

270. G. Aad *et al.* [ATLAS], "Measurements of Higgs boson production cross-sections in the $H \to \tau^+\tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **08**, 175 (2022) doi:10.1007/JHEP08(2022)175 [arXiv:2201.08269 [hep-ex]].

271. G. Aad *et al.* [ATLAS], "Search for single production of a vectorlike T quark decaying into a Higgs boson and top quark with fully hadronic final states using the ATLAS detector," Phys. Rev. D **105**, no.9, 092012 (2022) doi:10.1103/PhysRevD.105.092012 [arXiv:2201.07045 [hep-ex]].

272. G. Aad *et al.* [ATLAS], "Search for long-lived charginos based on a disappearing-track signature using 136 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **82**, no.7, 606 (2022) doi:10.1140/epjc/s10052-022-10489-5 [arXiv:2201.02472 [hep-ex]].

273. G. Aad *et al.* [ATLAS], "Search for Higgs boson pair production in the two bottom quarks plus two photons final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **106**, no.5, 052001 (2022) doi:10.1103/PhysRevD.106.052001 [arXiv:2112.11876 [hep-ex]].

274. G. Aad *et al.* [ATLAS], "Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7$, 8 and 13 TeV," Eur. Phys. J. C **82**, no.5, 438 (2022) doi:10.1140/epjc/s10052-022-10217-z [arXiv:2112.11266 [hep-ex]].

275. G. Aad *et al.* [ATLAS], "Modelling and computational improvements to the simulation of single vector-boson plus jet processes for the ATLAS experiment," JHEP **08**, 089 (2022) doi:10.1007/JHEP08(2022)089 [arXiv:2112.09588 [hep-ex]].

276. G. Aad *et al.* [ATLAS], "A search for an unexpected asymmetry in the production of $e^+\mu^-$ and $e^-\mu^+$ pairs in proton proton collisions recorded by the ATLAS detector at s=13 TeV," Phys. Lett. B **830**, 137106 (2022) doi:10.1016/j.physletb.2022.137106 [arXiv:2112.08090 [hep-ex]].

277. G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **82**, no.4, 334 (2022) doi:10.1140/epjc/s10052-022-10182-7 [arXiv:2112.01302 [hep-ex]].

278. G. Aad *et al.* [ATLAS], "Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **829**, 137066 (2022) doi:10.1016/j.physletb.2022.137066 [arXiv:2111.08372 [hep-ex]].

279. G. Aad *et al.* [ATLAS], "Constraints on Higgs boson production with large transverse momentum using H→bb$^-$ decays in the ATLAS detector," Phys. Rev. D **105**, no.9, 092003 (2022) doi:10.1103/PhysRevD.105.092003 [arXiv:2111.08340 [hep-ex]].

280. G. Aad *et al.* [ATLAS], "Measurements of azimuthal anisotropies of jet production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. C **105**, no.6, 064903 (2022) doi:10.1103/PhysRevC.105.064903 [arXiv:2111.06606 [nucl-ex]].

281. G. Aad *et al.* [ATLAS], "Measurement of Higgs boson decay into b-quarks in associated production with a top-quark pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 097 (2022) doi:10.1007/JHEP06(2022)097 [arXiv:2111.06712 [hep-ex]].

282. G. Aad *et al.* [ATLAS], "Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV," JHEP **03**, 041 (2022) doi:10.1007/JHEP03(2022)041 [arXiv:2110.13673 [hep-ex]].

283. G. Aad *et al.* [ATLAS], "Measurement of the energy asymmetry in $t\bar{t}j$ production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework," Eur. Phys. J. C **82**, no.4, 374 (2022) doi:10.1140/epjc/s10052-022-10101-w [arXiv:2110.05453 [hep-ex]].

284. G. Aad *et al.* [ATLAS], "Search for Higgs boson decays into a pair of pseudoscalar particles in the $bb\mu\mu$ final state with the ATLAS detector in pp collisions at $\sqrt{s}$=13 TeV," Phys. Rev. D **105**, no.1, 012006 (2022) doi:10.1103/PhysRevD.105.012006 [arXiv:2110.00313 [hep-ex]].

285. G. Aad *et al.* [ATLAS], "Constraints on Higgs boson properties using $WW^*(\to e\nu\mu\nu)jj$ production in 36.1 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **82**, no.7, 622 (2022) doi:10.1140/epjc/s10052-022-10366-1 [arXiv:2109.13808 [hep-ex]].

286. G. Aad *et al.* [ATLAS], "Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector," Eur. Phys. J. C **82**, no.1, 95 (2022) doi:10.1140/epjc/s10052-021-09843-w [arXiv:2109.10627 [hep-ex]].

287. G. Aad *et al.* [ATLAS], "Search for exotic decays of the Higgs boson into b$\overline{\text{b}}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **01**, 063 (2022) doi:10.1007/JHEP01(2022)063 [arXiv:2109.02447 [hep-ex]].

288. G. Aad *et al.* [ATLAS], "Operation and performance of the ATLAS semiconductor tracker in LHC Run 2," JINST **17**, no.01, P01013 (2022) doi:10.1088/1748-0221/17/01/P01013 [arXiv:2109.02591 [physics.ins-det]].

289. G. Aad *et al.* [ATLAS], "AtlFast3: the next generation of fast simulation in ATLAS," Comput. Softw. Big Sci. **6**, 7 (2022) doi:10.1007/s41781-021-00079-7 [arXiv:2109.02551 [hep-ex]].

290. G. Aad *et al.* [ATLAS], "Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13 TeV with the ATLAS detector," Eur. Phys. J. C **82**, no.2, 105 (2022) doi:10.1140/epjc/s10052-021-09878-z [arXiv:2109.00925 [hep-ex]].

291. G. Aad *et al.* [ATLAS], "Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+Pb collisions at 5.02 TeV with the ATLAS detector," Phys. Lett. B **829**, 137077 (2022) doi:10.1016/j.physletb.2022.137077 [arXiv:2109.00411 [nucl-ex]].

292. G. Aad *et al.* [ATLAS], "Search for heavy particles in the b-tagged dijet mass distribution with additional b-tagged jets in proton-proton collisions at $\sqrt{s}$= 13 TeV with the ATLAS experiment," Phys. Rev. D **105**, no.1, 012001 (2022) doi:10.1103/PhysRevD.105.012001 [arXiv:2108.09059 [hep-ex]].

293. G. Aad *et al.* [ATLAS], "Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \to \tau^{\pm}(\to \pi^{\pm}\nu_{\tau})\nu_{\tau}$ events in Run 2 data," Eur. Phys. J. C **82**, no.3, 223 (2022) doi:10.1140/epjc/s10052-022-10117-2 [arXiv:2108.09043 [hep-ex]].

294. G. Aad *et al.* [ATLAS], "The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2," Eur. Phys. J. C **82**, no.3, 206 (2022) doi:10.1140/epjc/s10052-021-09920-0 [arXiv:2107.02485 [hep-ex]].

295. G. Aad *et al.* [ATLAS], "Search for new phenomena in three- or four-lepton events in *pp* collisions at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **824**, 136832 (2022) doi:10.1016/j.physletb.2021.136832 [arXiv:2107.00404 [hep-ex]].

296. G. Aad *et al.* [ATLAS], "Search for lepton-flavor-violation in Z-boson decays with τ-leptons with the ATLAS detector," Phys. Rev. Lett. **127**, 271801 (2022) doi:10.1103/PhysRevLett.127.271801 [arXiv:2105.12491 [hep-ex]].

297. G. Aad *et al.* [ATLAS], "Performance of the ATLAS Level-1 topological trigger in Run 2," Eur. Phys. J. C **82**, no.1, 7 (2022) doi:10.1140/epjc/s10052-021-09807-0 [arXiv:2105.01416 [hep-ex]].

298. G. Aad *et al.* [ATLAS], "Emulating the impact of additional proton–proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events," Comput. Softw. Big Sci. **6**, no.1, 3 (2022) doi:10.1007/s41781-021-00062-2 [arXiv:2102.09495 [hep-ex]].

299. G. Aad *et al.* [ATLAS], "Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector," Eur. Phys. J. C **76**, no.2, 55 (2016) [erratum: Eur. Phys. J. C **82**, no.1, 70 (2022)] doi:10.1140/epjc/s10052-016-3876-4 [arXiv:1509.00294 [hep-ex]].

300. G. Aad *et al.* [ATLAS], "Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector," JHEP **11**, 209 (2021) doi:10.1007/JHEP11(2021)209 [arXiv:2108.13391 [hep-ex]].

301. G. Aad *et al.* [ATLAS], "Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum in *pp* collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," Phys. Rev. D **104**, no.11, 112010 (2021) doi:10.1103/PhysRevD.104.112010 [arXiv:2108.07586 [hep-ex]].

302. G. Aad *et al.* [ATLAS], "Search for new phenomena in *pp* collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector," Phys. Rev. D **104**, no.11, 112005 (2021) doi:10.1103/PhysRevD.104.112005 [arXiv:2108.07665 [hep-ex]].

303. G. Aad *et al.* [ATLAS], "Measurement of the production cross section of pairs of isolated photons in *pp* collisions at 13 TeV with the ATLAS detector," JHEP **11**, 169 (2021) doi:10.1007/JHEP11(2021)169 [arXiv:2107.09330 [hep-ex]].

304. G. Aad *et al.* [ATLAS], "Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector," JHEP **11**, 229 (2021) doi:10.1007/JHEP11(2021)229 [arXiv:2107.06092 [hep-ex]].

305. G. Aad *et al.* [ATLAS], "Measurement of the $t\bar{t}t\bar{t}$ production cross section in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **11**, 118 (2021) doi:10.1007/JHEP11(2021)118 [arXiv:2106.11683 [hep-ex]].

306. G. Aad *et al.* [ATLAS], "Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents," JINST **16**, P08025 (2021) doi:10.1088/1748-0221/16/08/P08025 [arXiv:2106.09287 [hep-ex]].

307. G. Aad *et al.* [ATLAS], "Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13TeV$ proton–proton collision data," Eur. Phys. J. C **81**, no.11, 1023 (2021) doi:10.1140/epjc/s10052-021-09761-x [arXiv:2106.09609 [hep-ex]].

308. G. Aad *et al.* [ATLAS], "Configuration and performance of the ATLAS b-jet triggers in Run 2," Eur. Phys. J. C **81**, no.12, 1087 (2021) doi:10.1140/epjc/s10052-021-09775-5 [arXiv:2106.03584 [hep-ex]].

309. G. Aad *et al.* [ATLAS], "Search for chargino–neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **81**, 1118 (2021) doi:10.1140/epjc/s10052-021-09749-7 [arXiv:2106.01676 [hep-ex]].

310. G. Aad *et al.* [ATLAS], "Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s} = 13$ TeV Using the ATLAS Detector," Phys. Rev. Lett. **127**, no.14, 141801 (2021) doi:10.1103/PhysRevLett.127.141801 [arXiv:2105.13847 [hep-ex]].

311. G. Aad *et al.* [ATLAS], "Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 013 (2021) doi:10.1007/JHEP10(2021)013 [arXiv:2104.13240 [hep-ex]].

312. G. Aad *et al.* [ATLAS], "A search for the decays of stopped long-lived particles at $\sqrt{s} =$ 13 TeV with the ATLAS detector," JHEP **07**, 173 (2021) doi:10.1007/JHEP07(2021)173 [arXiv:2104.03050 [hep-ex]].

313. G. Aad *et al.* [ATLAS], "Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, 737 (2021) doi:10.1140/epjc/s10052-021-09439-4 [arXiv:2103.12603 [hep-ex]].

314. G. Aad *et al.* [ATLAS], "Search for supersymmetry in events with four or more charged leptons in $139\,\mathrm{fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **07**, 167 (2021) doi:10.1007/JHEP07(2021)167 [arXiv:2103.11684 [hep-ex]].

315. G. Aad *et al.* [ATLAS], "Measurements of $W^+W^- + \geq 1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 003 (2021) doi:10.1007/JHEP06(2021)003 [arXiv:2103.10319 [hep-ex]].

316. G. Aad *et al.* [ATLAS], "Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at s=13 TeV with the ATLAS detector," Phys. Lett. B **819**, 136412 (2021) doi:10.1016/j.physletb.2021.136412 [arXiv:2103.10322 [hep-ex]].

317. G. Aad *et al.* [ATLAS], "Search for bottom-squark pair production in pp collision events at $\sqrt{s} = 13$ TeV with hadronically decaying τ-leptons, b-jets and missing transverse momentum using the ATLAS detector," Phys. Rev. D **104**, no.3, 032014 (2021) doi:10.1103/PhysRevD.104.032014 [arXiv:2103.08189 [hep-ex]].

318. G. Aad *et al.* [ATLAS], "Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector," JHEP **07**, 005 (2021) doi:10.1007/JHEP07(2021)005 [arXiv:2103.01918 [hep-ex]].

319. G. Aad *et al.* [ATLAS], "Search for resonances decaying into photon pairs in 139 fb^{-1} of pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Phys. Lett. B **822**, 136651 (2021) doi:10.1016/j.physletb.2021.136651 [arXiv:2102.13405 [hep-ex]].

320. G. Aad *et al.* [ATLAS], "Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s} = 13$ TeV," JINST **16**, no.07, P07029 (2021) doi:10.1088/1748-0221/16/07/P07029 [arXiv:2103.01029 [physics.ins-det]].

321. G. Aad *et al.* [ATLAS], "Search for new phenomena in events with an energetic jet and missing transverse momentum in *pp* collisions at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Rev. D **103**, no.11, 112006 (2021) doi:10.1103/PhysRevD.103.112006 [arXiv:2102.10874 [hep-ex]].

322. G. Aad *et al.* [ATLAS], "Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 145 (2021) doi:10.1007/JHEP06(2021)145 [arXiv:2102.10076 [hep-ex]].

323. G. Aad *et al.* [ATLAS], "Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **04**, 165 (2021) doi:10.1007/JHEP04(2021)165 [arXiv:2102.01444 [hep-ex]].

324. G. Aad *et al.* [ATLAS], "Search for new phenomena in final states with *b*-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV *pp* collisions with the ATLAS detector," JHEP **05**, 093 (2021) doi:10.1007/JHEP05(2021)093 [arXiv:2101.12527 [hep-ex]].

325. G. Aad *et al.* [ATLAS], "Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV," JHEP **06**, 146 (2021) doi:10.1007/JHEP06(2021)146 [arXiv:2101.11961 [hep-ex]].

326. G. Aad *et al.* [ATLAS], "Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ-lepton in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **06**, 179 (2021) doi:10.1007/JHEP06(2021)179 [arXiv:2101.11582 [hep-ex]].

327. G. Aad *et al.* [ATLAS], "Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS," Phys. Rev. C **104**, no.1, 014903 (2021) doi:10.1103/PhysRevC.104.014903 [arXiv:2101.10771 [nucl-ex]].

328. G. Aad *et al.* [ATLAS], "Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W^{\pm}$ and Z boson production in association with jets," JHEP **07**, 223 (2021) doi:10.1007/JHEP07(2021)223 [arXiv:2101.05095 [hep-ex]].

329. G. Aad *et al.* [ATLAS], "The ATLAS Fast TracKer system," JINST **16**, P07006 (2021) doi:10.1088/1748-0221/16/07/P07006 [arXiv:2101.05078 [physics.ins-det]].

330. G. Aad *et al.* [ATLAS], "Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ with the ATLAS detector," Eur. Phys. J. C **81**, no.7, 600 (2021) [erratum: Eur. Phys. J. C **81**, no.10, 956 (2021)] doi:10.1140/epjc/s10052-021-09748-8 [arXiv:2101.01629 [hep-ex]].

331. G. Aad *et al.* [ATLAS], "Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **04**, 174 (2021) doi:10.1007/JHEP04(2021)174 [arXiv:2012.03799 [hep-ex]].

332. G. Aad *et al.* [ATLAS], "Muon reconstruction and identification efficiency in ATLAS using the full Run 2 *pp* collision data set at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **81**, no.7, 578 (2021) doi:10.1140/epjc/s10052-021-09233-2 [arXiv:2012.00578 [hep-ex]].

333. G. Aad *et al.* [ATLAS], "Exclusive dimuon production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with ATLAS," Phys. Rev. C **104**, 024906 (2021) doi:10.1103/PhysRevC.104.024906 [arXiv:2011.12211 [nucl-ex]].

334. G. Aad *et al.* [ATLAS], "Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **103**, no.11, 112003 (2021) doi:10.1103/PhysRevD.103.112003 [arXiv:2011.10543 [hep-ex]].

335. G. Aad *et al.* [ATLAS], "Search for dark matter produced in association with a single top quark in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **81**, 860 (2021) doi:10.1140/epjc/s10052-021-09566-y [arXiv:2011.09308 [hep-ex]].

336. G. Aad *et al.* [ATLAS], "Search for Displaced Leptons in $\sqrt{s} = 13$ TeV pp Collisions with the ATLAS Detector," Phys. Rev. Lett. **127**, no.5, 051802 (2021) doi:10.1103/PhysRevLett.127.051802 [arXiv:2011.07812 [hep-ex]].

337. G. Aad *et al.* [ATLAS], "Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **81**, no.6, 537 (2021) doi:10.1140/epjc/s10052-021-09192-8 [arXiv:2011.08280 [hep-ex]].

338. G. Aad *et al.* [ATLAS], "Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell bb$ and $\ell\ell WW$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.5, 396 (2021) doi:10.1140/epjc/s10052-021-09117-5 [arXiv:2011.05639 [hep-ex]].

339. G. Aad *et al.* [ATLAS], "Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **02**, 226 (2021) doi:10.1007/JHEP02(2021)226 [arXiv:2011.05259 [hep-ex]].

340. G. Aad *et al.* [ATLAS], "Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $\sqrt{s}$ =13 TeV pp collision data with the ATLAS detector," JHEP **02**, 143 (2021) doi:10.1007/JHEP02(2021)143 [arXiv:2010.14293 [hep-ex]].

341. G. Aad *et al.* [ATLAS], "Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s}$=13 TeV with the ATLAS detector," JHEP **03**, 268 (2021) doi:10.1007/JHEP03(2021)268 [arXiv:2010.13651 [hep-ex]].

342. G. Aad *et al.* [ATLAS], "Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\mp}$ or ZZ in Fully Hadronic Final States from $\sqrt{s} = 13$ TeV pp Collisions Recorded with the ATLAS Detector," Phys. Rev. Lett. **126**, no.12, 121802 (2021) doi:10.1103/PhysRevLett.126.121802 [arXiv:2010.06548 [hep-ex]].

343. G. Aad *et al.* [ATLAS], "Observation of photon-induced W^+W^- production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Lett. B **816**, 136190 (2021) doi:10.1016/j.physletb.2021.136190 [arXiv:2010.04019 [hep-ex]].

344. G. Aad *et al.* [ATLAS], "Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector," Nature Phys. **17**, no.7, 819-825 (2021) doi:10.1038/s41567-021-01225-z [arXiv:2010.02566 [hep-ex]].

345. G. Aad *et al.* [ATLAS], "Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.4, 313 (2021) doi:10.1140/epjc/s10052-021-09009-8 [arXiv:2010.02098 [hep-ex]].

346. G. Aad *et al.* [ATLAS], "Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC," Eur. Phys. J. C **81**, no.1, 11 (2021) [erratum: Eur. Phys. J. C **81**, no.3, 249 (2021)] doi:10.1140/epjc/s10052-020-08730-0 [arXiv:2010.01015 [hep-ex]].

347. G. Aad *et al.* [ATLAS], "Search for heavy resonances decaying into a pair of Z bosons in the $\ell^+\ell^-\ell'^+\ell'^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using 139 fb^{-1} of proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.4, 332 (2021) doi:10.1140/epjc/s10052-021-09013-y [arXiv:2009.14791 [hep-ex]].

348. G. Aad *et al.* [ATLAS], "Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton–proton collisions," Eur. Phys. J. C **81**, no.4, 334 (2021) doi:10.1140/epjc/s10052-021-09054-3 [arXiv:2009.04986 [hep-ex]].

349. G. Aad *et al.* [ATLAS], "Medium-Induced Modification of Z-Tagged Charged Particle Yields in $Pb + Pb$ Collisions at 5.02 TeV with the ATLAS Detector," Phys. Rev. Lett. **126**, no.7, 072301 (2021) doi:10.1103/PhysRevLett.126.072301 [arXiv:2008.09811 [nucl-ex]].

350. G. Aad *et al.* [ATLAS], "Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.3, 218 (2021) doi:10.1140/epjc/s10052-021-08929-9 [arXiv:2008.07949 [hep-ex]].

351. G. Aad *et al.* [ATLAS], "Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb^{-1} of Pb+Pb data with the ATLAS detector," JHEP **11**, 050 (2021) doi:10.1007/JHEP11(2021)050 [arXiv:2008.05355 [hep-ex]].

352. G. Aad *et al.* [ATLAS], "Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **816**, 136204 (2021) doi:10.1016/j.physletb.2021.136204 [arXiv:2008.02508 [hep-ex]].

353. G. Aad *et al.* [ATLAS], "Test of the universality of τ and μ lepton couplings in W-boson decays with the ATLAS detector," Nature Phys. **17**, no.7, 813-818 (2021) doi:10.1038/s41567-021-01236-w [arXiv:2007.14040 [hep-ex]].

354. G. Aad *et al.* [ATLAS], "Measurement of hadronic event shapes in high-p$_T$ multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **01**, 188 (2021) doi:10.1007/JHEP01(2021)188 [arXiv:2007.12600 [hep-ex]].

355. G. Aad *et al.* [ATLAS], "A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector," Phys. Lett. B **812**, 135980 (2021) doi:10.1016/j.physletb.2020.135980 [arXiv:2007.07830 [hep-ex]].

356. G. Aad *et al.* [ATLAS], "Measurements of WH and ZH production in the $H \to b\bar{b}$ decay channel in pp collisions at 13 TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.2, 178 (2021) doi:10.1140/epjc/s10052-020-08677-2 [arXiv:2007.02873 [hep-ex]].

357. G. Aad *et al.* [ATLAS], "Jet energy scale and resolution measured in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.8, 689 (2021) doi:10.1140/epjc/s10052-021-09402-3 [arXiv:2007.02645 [hep-ex]].

358. G. Aad *et al.* [ATLAS], "Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **81**, no.8, 720 (2021) doi:10.1140/epjc/s10052-021-09371-7 [arXiv:2007.01554 [hep-ex]].

359. G. Aad *et al.* [ATLAS], "Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton–proton collisions at ATLAS," Eur. Phys. J. C **81**, no.2, 163 (2021) doi:10.1140/epjc/s10052-020-08734-w [arXiv:2006.15458 [hep-ex]].

360. G. Aad *et al.* [ATLAS], "Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector," JHEP **11**, 005 (2020) [erratum: JHEP **04**, 142 (2021)] doi:10.1007/JHEP11(2020)005 [arXiv:2006.12946 [hep-ex]].

361. G. Aad *et al.* [ATLAS], "Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," JHEP **01**, 033 (2021) doi:10.1007/JHEP01(2021)033 [arXiv:2006.09274 [hep-ex]].

362. G. Aad *et al.* [ATLAS], "Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s}$ =13 TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.10, 957 (2020) [erratum: Eur. Phys. J. C **81**, no.1, 29 (2021); erratum: Eur. Phys. J. C **81**, no.5, 398 (2021)] doi:10.1140/epjc/s10052-020-8227-9 [arXiv:2004.03447 [hep-ex]].

363. G. Aad *et al.* [ATLAS], "Measurement of the CP-violating phase ϕ_s in $B_s^0 \to J/\psi\phi$ decays in ATLAS at 13 TeV," Eur. Phys. J. C **81**, no.4, 342 (2021) doi:10.1140/epjc/s10052-021-09011-0 [arXiv:2001.07115 [hep-ex]].

364. G. Aad *et al.* [ATLAS], "Search for the $HH \to b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 108 (2020) [erratum: JHEP **01**, 145 (2021); erratum: JHEP **05**, 207 (2021)] doi:10.1007/JHEP07(2020)108 [arXiv:2001.05178 [hep-ex]].

365. G. Aad *et al.* [ATLAS], "Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{\rm NN}} =$ 5.44 TeV with the ATLAS Detector," Phys. Rev. Lett. **126**, no.12, 122301 (2021) doi:10.1103/PhysRevLett.126.1 [arXiv:2001.04201 [nucl-ex]].

366. M. Aaboud *et al.* [ATLAS], "Measurement of the relative $B_c^{\pm}/B^{\pm}$ production cross section with the ATLAS detector at $\sqrt{s} = 8$ TeV," Phys. Rev. D **104**, no.1, 012010 (2021) doi:10.1103/PhysRevD.104.012010 [arXiv:1912.02672 [hep-ex]].

367. G. Aad *et al.* [ATLAS], "Measurement of the jet mass in high transverse momentum $Z(\to b\bar{b})\gamma$ production at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Lett. B **812**, 135991 (2021) doi:10.1016/j.physletb.2020.135991 [arXiv:1907.07093 [hep-ex]].

368. V. M. Abazov *et al.* [TOTEM and D0], "Odderon Exchange from Elastic Scattering Differences between pp and $p\bar{p}$ Data at 1.96 TeV and from pp Forward Scattering Measurements," Phys. Rev. Lett. **127**, no.6, 062003 (2021) doi:10.1103/PhysRevLett.127.062003 [arXiv:2012.03981 [hep-ex]].

369. V. M. Abazov *et al.* [D0], "Study of the normalized transverse momentum distribution of W bosons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **103**, no.1, 012003 (2021) doi:10.1103/PhysRevD.103.012003 [arXiv:2007.13504 [hep-ex]].

370. G. Aad *et al.* [ATLAS], "Observation and measurement of forward proton scattering in association with lepton pairs produced via the photon fusion mechanism at ATLAS," Phys. Rev. Lett. **125**, no.26, 261801 (2020) doi:10.1103/PhysRevLett.125.261801 [arXiv:2009.14537 [hep-ex]].

371. G. Aad *et al.* [ATLAS], "Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC," JHEP **10**, 062 (2020) doi:10.1007/JHEP10(2020)062 [arXiv:2008.06032 [hep-ex]].

372. G. Aad *et al.* [ATLAS], "Search for heavy resonances decaying into a photon and a hadronically decaying Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **125**, 251802 (2020) doi:10.1103/PhysRevLett.125.251802 [arXiv:2008.05928 [hep-ex]].

373. G. Aad *et al.* [ATLAS], "Evidence for $t\bar{t}t\bar{t}$ production in the multilepton final state in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.11, 1085 (2020) doi:10.1140/epjc/s10052-020-08509-3 [arXiv:2007.14858 [hep-ex]].

374. G. Aad *et al.* [ATLAS], "Reconstruction and identification of boosted di-τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS," JHEP **11**, 163 (2020) doi:10.1007/JHEP11(2020)163 [arXiv:2007.14811 [hep-ex]].

375. G. Aad *et al.* [ATLAS], "Operation of the ATLAS trigger system in Run 2," JINST **15**, no.10, P10004 (2020) doi:10.1088/1748-0221/15/10/P10004 [arXiv:2007.12539 [physics.ins-det]].

376. G. Aad *et al.* [ATLAS], "Alignment of the ATLAS Inner Detector in Run-2," Eur. Phys. J. C **80**, no.12, 1194 (2020) doi:10.1140/epjc/s10052-020-08700-6 [arXiv:2007.07624 [hep-ex]].

377. G. Aad *et al.* [ATLAS], "Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $tW\gamma$ production in the eμ channel at 13 TeV with the ATLAS detector," JHEP **09**, 049 (2020) doi:10.1007/JHEP09(2020)049 [arXiv:2007.06946 [hep-ex]].

378. G. Aad *et al.* [ATLAS], "Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton−proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **102**, 112008 (2020) doi:10.1103/PhysRevD.102.112008 [arXiv:2007.05293 [hep-ex]].

379. G. Aad *et al.* [ATLAS], "Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector," JHEP **11**, 005 (2020) doi:10.1007/JHEP11(2020)005 [arXiv:2006.12946 [hep-ex]].

380. G. Aad *et al.* [ATLAS], "Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS experiment," Phys. Lett. B **810**, 135797 (2020) doi:10.1016/j.physletb.2020.135797 [arXiv:2006.13076 [hep-ex]].

381. G. Aad *et al.* [ATLAS], "Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.11, 1080 (2020) doi:10.1140/epjc/s10052-020-08469-8 [arXiv:2006.05880 [hep-ex]].

382. G. Aad *et al.* [ATLAS], "Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **10**, 112 (2020) doi:10.1007/JHEP10(2020)112 [arXiv:2006.05872 [hep-ex]].

383. G. Aad *et al.* [ATLAS], "Search for Higgs boson decays into two new low-mass spin-0 particles in the $4b$ channel with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. D **102**, 112006 (2020) doi:10.1103/PhysRevD.102.112006 [arXiv:2005.12236 [hep-ex]].

384. G. Aad *et al.* [ATLAS], "Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking," JHEP **08**, 080 (2020) doi:10.1007/JHEP08(2020)080 [arXiv:2005.09554 [hep-ex]].

385. G. Aad *et al.* [ATLAS], "A search for the $Z\gamma$ decay mode of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **809**, 135754 (2020) doi:10.1016/j.physletb.2020.135754 [arXiv:2005.05382 [hep-ex]].

386. G. Aad *et al.* [ATLAS], "Search for $t\bar{t}$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **10**, 061 (2020) doi:10.1007/JHEP10(2020)061 [arXiv:2005.05138 [hep-ex]].

387. G. Aad *et al.* [ATLAS], "Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger," JINST **15**, no.11, P11016 (2020) doi:10.1088/1748-0221/15/11/P11016 [arXiv:2005.04179 [physics.ins-det]].

388. G. Aad *et al.* [CMS and ATLAS], "Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV," JHEP **08**, no.08, 051 (2020) doi:10.1007/JHEP08(2020)051 [arXiv:2005.03799 [hep-ex]].

389. G. Aad *et al.* [ATLAS], "Dijet resonance search with weak supervision using $\sqrt{s} = 13$ TeV pp collisions in the ATLAS detector," Phys. Rev. Lett. **125**, no.13, 131801 (2020) doi:10.1103/PhysRevLett.125.131801 [arXiv:2005.02983 [hep-ex]].

390. G. Aad *et al.* [ATLAS], "Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.12, 1165 (2020) doi:10.1140/epjc/s10052-020-08554-y [arXiv:2004.14636 [hep-ex]].

391. G. Aad *et al.* [ATLAS], "Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.8, 737 (2020) doi:10.1140/epjc/s10052-020-8102-8 [arXiv:2004.14060 [hep-ex]].

392. G. Aad *et al.* [ATLAS], "Performance of the ATLAS muon triggers in Run 2," JINST **15**, no.09, P09015 (2020) doi:10.1088/1748-0221/15/09/p09015 [arXiv:2004.13447 [physics.ins-det]].

393. G. Aad *et al.* [ATLAS], "Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector," JHEP **10**, 005 (2020) doi:10.1007/JHEP10(2020)005 [arXiv:2004.10894 [hep-ex]].

394. G. Aad *et al.* [ATLAS], "CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}H$ and tH Processes Using $H \to \gamma\gamma$ with the ATLAS Detector," Phys. Rev. Lett. **125**, no.6, 061802 (2020) doi:10.1103/PhysRevLett.125.061802 [arXiv:2004.04545 [hep-ex]].

395. G. Aad *et al.* [ATLAS], "Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **80**, no.10, 942 (2020) doi:10.1140/epjc/s10052-020-8223-0 [arXiv:2004.03969 [hep-ex]].

396. G. Aad *et al.* [ATLAS], "Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector," Phys. Rev. Lett. **124**, no.22, 222002 (2020) doi:10.1103/PhysRevLett.124.222002 [arXiv:2004.03540 [hep-ex]].

397. G. Aad *et al.* [ATLAS], "Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s}$ =13 TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.10, 957 (2020) doi:10.1140/epjc/s10052-020-8227-9 [arXiv:2004.03447 [hep-ex]].

398. G. Aad *et al.* [ATLAS], "Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector," Phys. Rev. Lett. **125**, no.22, 221802 (2020) doi:10.1103/PhysRevLett.125.221802 [arXiv:2004.01678 [hep-ex]].

399. G. Aad *et al.* [ATLAS], "Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **102**, no.3, 032006 (2020) doi:10.1103/PhysRevD.102.032006 [arXiv:2003.11956 [hep-ex]].

400. G. Aad *et al.* [ATLAS], "Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 044 (2020) doi:10.1007/JHEP07(2020)044 [arXiv:2003.11960 [hep-ex]].

401. G. Aad *et al.* [ATLAS], "Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector," Phys. Lett. B **807**, 135595 (2020) doi:10.1016/j.physletb.2020.135595 [arXiv:2003.03565 [nucl-ex]].

402. G. Aad *et al.* [ATLAS], "Search for heavy Higgs bosons decaying into two tau leptons with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. Lett. **125**, no.5, 051801 (2020) doi:10.1103/PhysRevLett.125.051801 [arXiv:2002.12223 [hep-ex]].

403. G. Aad *et al.* [ATLAS], "Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector," JHEP **06**, 151 (2020) doi:10.1007/JHEP06(2020)151 [arXiv:2002.11325 [hep-ex]].

404. G. Aad *et al.* [ATLAS], "Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 124 (2020) doi:10.1007/JHEP07(2020)124 [arXiv:2002.07546 [hep-ex]].

405. G. Aad *et al.* [ATLAS], "Test of CP invariance in vector-boson fusion production of the Higgs boson in the $H \to \tau\tau$ channel in proton−proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **805**, 135426 (2020) doi:10.1016/j.physletb.2020.135426 [arXiv:2002.05315 [hep-ex]].

406. G. Aad *et al.* [ATLAS], "Search for the $HH \to b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **07**, 108 (2020) doi:10.1007/JHEP07(2020)108 [arXiv:2001.05178 [hep-ex]].

407. G. Aad *et al.* [ATLAS], "Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s}$ =13 TeV," Phys. Rev. D **101**, no.5, 052007 (2020) doi:10.1103/PhysRevD.101.052007 [arXiv:1912.09837 [hep-ex]].

408. G. Aad *et al.* [ATLAS], "Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **03**, 179 (2020) doi:10.1007/JHEP03(2020)179 [arXiv:1912.09866 [hep-ex]].

409. G. Aad *et al.* [ATLAS], "Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}$=13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **101**, no.7, 072001 (2020) doi:10.1103/PhysRevD.101.072001 [arXiv:1912.08479 [hep-ex]].

410. G. Aad *et al.* [ATLAS], "Measurement of the transverse momentum distribution of Drell–Yan lepton pairs in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.7, 616 (2020) doi:10.1140/epjc/s10052-020-8001-z [arXiv:1912.02844 [hep-ex]].

411. G. Aad *et al.* [ATLAS], "Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **101**, no.5, 052005 (2020) doi:10.1103/PhysRevD.101.052005 [arXiv:1911.12606 [hep-ex]].

412. G. Aad *et al.* [ATLAS], "Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer," Phys. Rev. D **101**, no.5, 052013 (2020) doi:10.1103/PhysRevD.101.052013 [arXiv:1911.12575 [hep-ex]].

413. G. Aad *et al.* [ATLAS], "Search for direct stau production in events with two hadronic τ-leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **101**, no.3, 032009 (2020) doi:10.1103/PhysRevD.101.032009 [arXiv:1911.06660 [hep-ex]].

414. G. Aad *et al.* [ATLAS], "Measurement of the $Z(\to \ell^+\ell^-)\gamma$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **03**, 054 (2020) doi:10.1007/JHEP03(2020)054 [arXiv:1911.04813 [hep-ex]].

415. G. Aad *et al.* [ATLAS], "Measurement of the azimuthal anisotropy of charged-particle production in $Xe + Xe$ collisions at $\sqrt{s_{\rm NN}} = 5.44$ TeV with the ATLAS detector," Phys. Rev. C **101**, no.2, 024906 (2020) doi:10.1103/PhysRevC.101.024906 [arXiv:1911.04812 [nucl-ex]].

416. G. Aad *et al.* [ATLAS], "ATLAS data quality operations and performance for 2015–2018 data-taking," JINST **15**, no.04, P04003 (2020) doi:10.1088/1748-0221/15/04/P04003 [arXiv:1911.04632 [physics.ins-det]].

417. G. Aad *et al.* [ATLAS], "Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer," JHEP **02**, 042 (2020) [erratum: JHEP **10**, 182 (2020)] doi:10.1007/JHEP02(2020)042 [arXiv:1911.00453 [hep-ex]].

418. G. Aad *et al.* [ATLAS], "Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\rm NN}} = 8.16$ TeV p+Pb collisions with the ATLAS detector," Eur. Phys. J. C **80**, no.1, 73 (2020) doi:10.1140/epjc/s10052-020-7624-4 [arXiv:1910.13978 [nucl-ex]].

419. G. Aad *et al.* [ATLAS], "Z boson production in Pb+Pb collisions at $\sqrt{s_{\rm NN}}$= 5.02 TeV measured by the ATLAS experiment," Phys. Lett. B **802**, 135262 (2020) doi:10.1016/j.physletb.2020.135262 [arXiv:1910.13396 [nucl-ex]].

420. G. Aad *et al.* [ATLAS], "Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **803**, 135341 (2020) doi:10.1016/j.physletb.2020.135341 [arXiv:1910.09503 [hep-ex]].

421. G. Aad *et al.* [ATLAS], "Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.6, 528 (2020) doi:10.1140/epjc/s10052-020-7907-9 [arXiv:1910.08819 [hep-ex]].

422. G. Aad *et al.* [ATLAS], "Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **03**, 145 (2020) doi:10.1007/JHEP03(2020)145 [arXiv:1910.08447 [hep-ex]].

423. M. Aaboud *et al.* [ATLAS], "Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Eur. Phys. J. C **80**, no.12, 1104 (2020) doi:10.1140/epjc/s10052-020-08477-8 [arXiv:1910.04482 [hep-ex]].

424. M. Aaboud *et al.* [ATLAS], "Measurement of J/ψ production in association with a $W^{\pm}$ boson with pp data at 8 TeV," JHEP **01**, 095 (2020) doi:10.1007/JHEP01(2020)095 [arXiv:1909.13626 [hep-ex]].

425. G. Aad *et al.* [ATLAS], "Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **80**, no.8, 691 (2020) doi:10.1140/epjc/s10052-020-8050-3 [arXiv:1909.09226 [hep-ex]].

426. G. Aad *et al.* [ATLAS], "Search for the Higgs boson decays $H \to ee$ and $H \to e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **801**, 135148 (2020) doi:10.1016/j.physletb.2019.135148 [arXiv:1909.10235 [hep-ex]].

427. G. Aad *et al.* [ATLAS], "Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector," JHEP **06**, 046 (2020) doi:10.1007/JHEP06(2020)046 [arXiv:1909.08457 [hep-ex]].

428. G. Aad *et al.* [ATLAS], "Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment," Phys. Rev. D **101**, no.1, 012002 (2020) doi:10.1103/PhysRevD.101.012002 [arXiv:1909.02845 [hep-ex]].

429. G. Aad *et al.* [ATLAS], "Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **124**, no.8, 082301 (2020) doi:10.1103/PhysRevLett.124.082301 [arXiv:1909.01650 [nucl-ex]].

430. G. Aad *et al.* [ATLAS], "Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector," Eur. Phys. J. C **80**, no.5, 450 (2020) doi:10.1140/epjc/s10052-020-7997-4 [arXiv:1909.01246 [hep-ex]].

431. G. Aad *et al.* [ATLAS], "Performance of electron and photon triggers in ATLAS during LHC Run 2," Eur. Phys. J. C **80**, no.1, 47 (2020) doi:10.1140/epjc/s10052-019-7500-2 [arXiv:1909.00761 [hep-ex]].

432. G. Aad *et al.* [ATLAS], "Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment," Phys. Lett. B **800**, 135082 (2020) doi:10.1016/j.physletb.2019.135082 [arXiv:1908.08461 [hep-ex]].

433. G. Aad *et al.* [ATLAS], "Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector," Eur. Phys. J. C **80**, no.2, 123 (2020) doi:10.1140/epjc/s10052-019-7594-6 [arXiv:1908.08215 [hep-ex]].

434. G. Aad *et al.* [ATLAS], "Search for non-resonant Higgs boson pair production in the $bb\ell\nu\ell\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV," Phys. Lett. B **801**, 135145 (2020) doi:10.1016/j.physletb.2019.135145 [arXiv:1908.06765 [hep-ex]].

435. G. Aad *et al.* [ATLAS], "Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. C **100**, no.6, 064901 (2019) [erratum: Phys. Rev. C **101**, no.5, 059903 (2020)] doi:10.1103/PhysRevC.100.064901 [arXiv:1908.05264 [nucl-ex]].

436. G. Aad *et al.* [ATLAS], "Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **801**, 135114 (2020) doi:10.1016/j.physletb.2019.135114 [arXiv:1907.10037 [hep-ex]].

437. G. Aad *et al.* [ATLAS], "Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Lett. B **800**, 135069 (2020) doi:10.1016/j.physletb.2019.135069 [arXiv:1907.06131 [hep-ex]].

438. G. Aad *et al.* [ATLAS], "Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **102**, no.3, 032004 (2020) doi:10.1103/PhysRevD.102.032004 [arXiv:1907.02749 [hep-ex]].

439. G. Aad *et al.* [ATLAS], "Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **09**, 091 (2019) [erratum: JHEP **06**, 042 (2020)] doi:10.1007/JHEP09(2019)091 [arXiv:1906.08589 [hep-ex]].

440. M. Aaboud *et al.* [ATLAS], "Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s}$=8 and 13 TeV," Eur. Phys. J. C **80**, no.1, 64 (2020) doi:10.1140/epjc/s10052-020-7606-6 [arXiv:1906.08290 [nucl-ex]].

441. G. Aad *et al.* [ATLAS], "Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **800**, 135103 (2020) doi:10.1016/j.physletb.2019.135103 [arXiv:1906.02025 [hep-ex]].

442. G. Aad *et al.* [ATLAS], "Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 Tev Proton-Proton Collisions with the ATLAS Detector," Phys. Rev. Lett. **124**, no.3, 031802 (2020) doi:10.1103/PhysRevLett.124.031802 [arXiv:1905.10130 [hep-ex]].

443. M. Aaboud *et al.* [ATLAS], "Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{\rm NN}}$ = 5.02 TeV with the ATLAS detector," JHEP **01**, 051 (2020) doi:10.1007/JHEP01(2020)051 [arXiv:1904.04808 [nucl-ex]].

444. M. Aaboud *et al.* [ATLAS], "Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector," Eur. Phys. J. C **80**, no.8, 754 (2020) doi:10.1140/epjc/s10052-020-8181-6 [arXiv:1903.07570 [hep-ex]].

445. M. Aaboud *et al.* [ATLAS], "Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **05**, 077 (2018) [erratum: JHEP **10**, 048 (2020)] doi:10.1007/JHEP05(2018)077 [arXiv:1711.03296 [hep-ex]].

446. M. Aaboud *et al.* [ATLAS], "Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS," Phys. Rev. D **94**, no.9, 092003 (2016) doi:10.1103/PhysRevD.94.092003 [arXiv:1607.07281 [hep-ex]].

447. V. M. Abazov *et al.* [D0], "Studies of $X(3872)$ and $\psi(2S)$ production in $p\bar{p}$ collisions at 1.96 TeV," Phys. Rev. D **102**, no.7, 072005 (2020) doi:10.1103/PhysRevD.102.072005 [arXiv:2007.13420 [hep-ex]].

448. G. Aad *et al.* [ATLAS Collaboration], "Measurements of top-quark pair differential and double-differential cross-sections in the ℓ+jets channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Eur. Phys. J. C **79**, no. 12, 1028 (2019) doi:10.1140/epjc/s10052-019-7525-6 [arXiv:1908.07305 [hep-ex]].

449. G. Aad *et al.* [ATLAS Collaboration], "Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. C **100**, no. 6, 064901 (2019) doi:10.1103/PhysRevC.100.064901 [arXiv:1908.05264 [nucl-ex]].

450. G. Aad *et al.* [ATLAS Collaboration], "Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum," JHEP **1912**, 060 (2019) doi:10.1007/JHEP12(2019)060 [arXiv:1908.03122 [hep-ex]].

451. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb^{-1} of ATLAS data," JHEP **1910**, 203 (2019) doi:10.1007/JHEP10(2019)203 [arXiv:1908.02746 [hep-ex]].

452. G. Aad *et al.* [ATLAS Collaboration], "Electron and photon performance measurements with the ATLAS detector using the 20152017 LHC proton-proton collision data," JINST **14**, no. 12, P12006 (2019) doi:10.1088/1748-0221/14/12/P12006 [arXiv:1908.00005 [hep-ex]].

453. G. Aad *et al.* [ATLAS Collaboration], "Measurement of K^0_S and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 12, 1017 (2019) doi:10.1140/epjc/s10052-019-7512-y [arXiv:1907.10862 [hep-ex]].

454. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $W^{\pm}$ boson production in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 11, 935 (2019) doi:10.1140/epjc/s10052-019-7439-3 [arXiv:1907.10414 [nucl-ex]].

455. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector," Eur. Phys. J. C **79**, no. 10, 847 (2019) doi:10.1140/epjc/s10052-019-7321-3 [arXiv:1907.06728 [hep-ex]].

456. G. Aad *et al.* [ATLAS Collaboration], "Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 12, 985 (2019) doi:10.1140/epjc/s10052-019-7489-6 [arXiv:1907.05176 [nucl-ex]].

457. G. Aad *et al.* [ATLAS Collaboration], "ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **79**, no. 11, 970 (2019) doi:10.1140/epjc/s10052-019-7450-8 [arXiv:1907.05120 [hep-ex]].

458. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $W^{\pm}$-boson and Z-boson production cross-sections in pp collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 11, 901 (2019) doi:10.1140/epjc/s10052-019-7399-7 [arXiv:1907.03567 [hep-ex]].

459. G. Aad *et al.* [ATLAS Collaboration], "Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2," JINST **14**, no. 09, P09011 (2019) doi:10.1088/1748-0221/14/09/P09011 [arXiv:1906.12226 [hep-ex]].

460. G. Aad *et al.* [ATLAS Collaboration], "Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 TeV," Eur. Phys. J. C **79**, no. 10, 836 (2019) doi:10.1140/epjc/s10052-019-7335-x [arXiv:1906.11005 [hep-ex]].

461. G. Aad *et al.* [ATLAS Collaboration], "Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. D **100**, no. 5, 052011 (2019) doi:10.1103/PhysRevD.100.052011 [arXiv:1906.09254 [hep-ex]].

462. G. Aad *et al.* [ATLAS Collaboration], "Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1909**, 091 (2019) doi:10.1007/JHEP09(2019)091 [arXiv:1906.08589 [hep-ex]].

463. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **100**, no. 5, 052013 (2019) doi:10.1103/PhysRevD.100.052013 [arXiv:1906.05609 [hep-ex]].

464. M. Aaboud *et al.* [ATLAS Collaboration], "Search for excited electrons singly produced in protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC," Eur. Phys. J. C **79**, no. 9, 803 (2019) doi:10.1140/epjc/s10052-019-7295-1 [arXiv:1906.03204 [hep-ex]].

465. M. Aaboud *et al.* [ATLAS Collaboration], "Observation of electroweak production of a same-sign W boson pair in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **123**, no. 16, 161801 (2019) doi:10.1103/PhysRevLett.123.161801 [arXiv:1906.03203 [hep-ex]].

466. G. Aad *et al.* [ATLAS Collaboration], "Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 8, 666 (2019) doi:10.1140/epjc/s10052-019-7162-0 [arXiv:1905.09752 [hep-ex]].

467. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector," JHEP **1910**, 265 (2019) doi:10.1007/JHEP10(2019)265 [arXiv:1905.09787 [hep-ex]].

468. G. Aad *et al.* [ATLAS Collaboration], "Search for the electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **100**, no. 3, 032007 (2019) doi:10.1103/PhysRevD.100.032007 [arXiv:1905.07714 [hep-ex]].

469. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of ZZ production in the $\ell\ell\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV," JHEP **1910**, 127 (2019) doi:10.1007/JHEP10(2019)127 [arXiv:1905.07163 [hep-ex]].

470. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 10, 884 (2019) doi:10.1140/epjc/s10052-019-7371-6 [arXiv:1905.04242 [hep-ex]].

471. M. Aaboud *et al.* [ATLAS Collaboration], "Modelling radiation damage to pixel sensors in the ATLAS detector," JINST **14**, no. 06, P06012 (2019) doi:10.1088/1748-0221/14/06/P06012 [arXiv:1905.03739 [physics.ins-det]].

472. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top-quark mass in $t\bar{t}+1$-jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV," JHEP **1911**, 150 (2019) doi:10.1007/JHEP11(2019)150 [arXiv:1905.02302 [hep-ex]].

473. M. Aaboud *et al.* [ATLAS Collaboration], "Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV," Phys. Lett. B **798**, 134942 (2019) doi:10.1016/j.physletb.2019.134942 [arXiv:1904.12679 [hep-ex]].

474. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross-section and charge asymmetry of W bosons produced in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 9, 760 (2019) doi:10.1140/epjc/s10052-019-7199-0 [arXiv:1904.05631 [hep-ex]].

475. M. Aaboud *et al.* [ATLAS Collaboration], "Combination of searches for invisible Higgs boson decays with the ATLAS experiment," Phys. Rev. Lett. **122**, no. 23, 231801 (2019) doi:10.1103/PhysRevLett.122.231801 [arXiv:1904.05105 [hep-ex]].

476. G. Aad *et al.* [ATLAS Collaboration], "Observation of light-by-light scattering in ultraperipheral Pb+Pb collisions with the ATLAS detector," Phys. Rev. Lett. **123**, no. 5, 052001 (2019) doi:10.1103/PhysRevLett.123.052001 [arXiv:1904.03536 [hep-ex]].

477. G. Aad *et al.* [ATLAS Collaboration], "Evidence for the production of three massive vector bosons with the ATLAS detector," Phys. Lett. B **798**, 134913 (2019) doi:10.1016/j.physletb.2019.134913 [arXiv:1903.10415 [hep-ex]].

478. G. Aad *et al.* [ATLAS Collaboration], "Evidence for the production of three massive vector-bosons in *pp* collisions with the ATLAS detector," PoS DIS **2019**, 135 (2019). doi:10.22323/1.352.0135

479. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \to WW^* \to \ell\nu\ell\nu$ channel in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **798**, 134949 (2019) doi:10.1016/j.physletb.2019.134949 [arXiv:1903.10052 [hep-ex]].

480. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass dilepton resonances using 139 fb^{-1} of *pp* collision data collected at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **796**, 68 (2019) doi:10.1016/j.physletb.2019.07.016 [arXiv:1903.06248 [hep-ex]].

481. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of VH, $\mathrm{H} \to \mathrm{b\overline{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector," JHEP **1905**, 141 (2019) doi:10.1007/JHEP05(2019)141 [arXiv:1903.04618 [hep-ex]].

482. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1908**, 033 (2019) doi:10.1007/JHEP08(2019)033 [arXiv:1903.02942 [hep-ex]].

483. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of prompt photon production in $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV p+Pb collisions with ATLAS," Phys. Lett. B **796**, 230 (2019) doi:10.1016/j.physletb.2019.07.03 [arXiv:1903.02209 [nucl-ex]].

484. M. Aaboud *et al.* [ATLAS Collaboration], "Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV *pp* collision data collected by the ATLAS detector," JHEP **1905**, 142 (2019) doi:10.1007/JHEP05(2019)142 [arXiv:1903.01400 [hep-ex]].

485. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 9, 092004 (2019) doi:10.1103/PhysRevD.99.092004 [arXiv:1902.10077 [hep-ex]].

486. M. Aaboud *et al.* [ATLAS Collaboration], "Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from *pp* and Pb+Pb Collisions in ATLAS," Phys. Rev. Lett. **123**, no. 4, 042001 (2019) doi:10.1103/PhysRevLett.123.042001 [arXiv:1902.10007 [nucl-ex]].

487. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **1906**, 144 (2019) doi:10.1007/JHEP06(2019)144 [arXiv:1902.08103 [hep-ex]].

488. M. Aaboud *et al.* [ATLAS and CMS Collaborations], "Combinations of single-top-quark production cross-section measurements and $|f_{\mathrm{LV}}V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experimentsCombinations of single-top-quark production cross-section measurements and —$\mathrm{f}_{LV}\mathrm{V}_{tb}$— determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments," JHEP **1905**, 088 (2019) doi:10.1007/JHEP05(2019)088 [arXiv:1902.07158 [hep-ex]].

489. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector," JHEP **1904**, 048 (2019) doi:10.1007/JHEP04(2019)048 [arXiv:1902.05892 [hep-ex]].

490. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 6, 535 (2019) doi:10.1140/epjc/s10052-019-7027-6 [arXiv:1902.05759 [hep-ex]].

491. M. Aaboud *et al.* [ATLAS Collaboration], "Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **79**, no. 8, 639 (2019) doi:10.1140/epjc/s10052-019-7140-6 [arXiv:1902.04655 [physics.ins-det]].

492. M. Aaboud *et al.* [ATLAS Collaboration], "Search for long-lived neutral particles in *pp* collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter," Eur. Phys. J. C **79**, no. 6, 481 (2019) doi:10.1140/epjc/s10052-019-6962-6 [arXiv:1902.03094 [hep-ex]].

493. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV," Phys. Rev. D **99**, no. 9, 092007 (2019) doi:10.1103/PhysRevD.99.092007 [arXiv:1902.01636 [hep-ex]].

494. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment," Eur. Phys. J. C **79**, no. 9, 733 (2019) doi:10.1140/epjc/s10052-019-7181-x [arXiv:1902.00377 [hep-ex]].

495. M. Aaboud *et al.* [ATLAS Collaboration], "Search for low-mass resonances decaying into two jets and produced in association with a photon using *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **795**, 56 (2019) doi:10.1016/j.physletb.2019.03.067 [arXiv:1901.10917 [hep-ex]].

496. M. Aaboud *et al.* [ATLAS Collaboration], "Dijet azimuthal correlations and conditional yields in pp and p+Pb collisions at sNN=5.02TeV with the ATLAS detector," Phys. Rev. C **100**, no. 3, 034903 (2019) doi:10.1103/PhysRevC.100.034903 [arXiv:1901.10440 [nucl-ex]].

497. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the ratio of cross sections for inclusive isolated-photon production in *pp* collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector," JHEP **1904**, 093 (2019) doi:10.1007/JHEP04(2019)093 [arXiv:1901.10075 [hep-ex]].

498. M. Aaboud *et al.* [ATLAS Collaboration], "Search for scalar resonances decaying into $\mu^+\mu^-$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1907**, 117 (2019) doi:10.1007/JHEP07(2019)117 [arXiv:1901.08144 [hep-ex]].

499. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 7, 072009 (2019) doi:10.1103/PhysRevD.99.072009 [arXiv:1901.03584 [hep-ex]].

500. M. Aaboud *et al.* [ATLAS Collaboration], "Search for top-quark decays $t \to Hq$ with 36 fb^{-1} of *pp* collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1905**, 123 (2019) doi:10.1007/JHEP05(2019)123 [arXiv:1812.11568 [hep-ex]].

501. M. Aaboud *et al.* [ATLAS Collaboration], "Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1905**, 041 (2019) doi:10.1007/JHEP05(2019)041 [arXiv:1812.09743 [hep-ex]].

502. M. Aaboud *et al.* [ATLAS Collaboration], "Observation of electroweak $W^{\pm}Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **793**, 469 (2019) doi:10.1016/j.physletb.2019.05.012 [arXiv:1812.09740 [hep-ex]].

503. M. Aaboud *et al.* [ATLAS Collaboration], "Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **100**, no. 1, 012006 (2019) doi:10.1103/PhysRevD.100.012006 [arXiv:1812.09432 [hep-ex]].

504. M. Aaboud *et al.* [ATLAS Collaboration], "Properties of $g \to b\bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV," Phys. Rev. D **99**, no. 5, 052004 (2019) doi:10.1103/PhysRevD.99.052004 [arXiv:1812.09283 [hep-ex]].

505. M. Aaboud *et al.* [ATLAS Collaboration], "Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1905**, 164 (2019) doi:10.1007/JHEP05(2019)164 [arXiv:1812.07343 [hep-ex]].

506. M. Aaboud *et al.* [ATLAS Collaboration], "Electron and photon energy calibration with the ATLAS detector using 20152016 LHC proton-proton collision data," JINST **14**, no. 03, P03017 (2019) doi:10.1088/1748-0221/14/03/P03017 [arXiv:1812.03848 [hep-ex]].

507. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Rev. D **99**, no. 5, 052003 (2019) doi:10.1103/PhysRevD.99.052003 [arXiv:1812.03673 [hep-ex]].

508. M. Aaboud *et al.* [ATLAS Collaboration], "Study of the rare decays of B_s^0 and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector," JHEP **1904**, 098 (2019) doi:10.1007/JHEP04(2019)098 [arXiv:1812.03017 [hep-ex]].

509. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS," Eur. Phys. J. C **79**, no. 5, 382 (2019) doi:10.1140/epjc/s10052-019-6849-6 [arXiv:1812.01697 [hep-ex]].

510. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1904**, 046 (2019) doi:10.1007/JHEP04(2019)046 [arXiv:1811.12113 [hep-ex]].

511. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV," JHEP **1905**, 124 (2019) doi:10.1007/JHEP05(2019)124 [arXiv:1811.11028 [hep-ex]].

512. M. Aaboud *et al.* [ATLAS Collaboration], "Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **790**, 595 (2019) [Phys. Lett. **790**, 595 (2019)] doi:10.1016/j.physletb.2019.01.062 [arXiv:1811.11094 [hep-ex]].

513. M. Aaboud *et al.* [ATLAS Collaboration], "Cross-section measurements of the Higgs boson decaying into a pair of τ-leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, 072001 (2019) doi:10.1103/PhysRevD.99.072001 [arXiv:1811.08856 [hep-ex]].

514. M. Aaboud *et al.* [ATLAS Collaboration], "Search for long-lived particles produced in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS muon

spectrometer," Phys. Rev. D **99**, no. 5, 052005 (2019) doi:10.1103/PhysRevD.99.052005 [arXiv:1811.07370 [hep-ex]].

515. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1904**, 092 (2019) doi:10.1007/JHEP04(2019)092 [arXiv:1811.04671 [hep-ex]].

516. M. Aaboud *et al.* [ATLAS Collaboration], "Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 5, 052009 (2019) doi:10.1103/PhysRevD.99.052009 [arXiv:1811.02305 [hep-ex]].

517. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. Lett. **122**, no. 15, 151801 (2019) doi:10.1103/PhysRevLett.122.151801 [arXiv:1811.02542 [hep-ex]].

518. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector," Eur. Phys. J. C **79**, no. 2, 128 (2019) Erratum: [Eur. Phys. J. C **79**, no. 5, 374 (2019)] doi:10.1140/epjc/s10052-019-6870-9, 10.1140/epjc/s10052-019-6622-x [arXiv:1810.08424 [hep-ex]].

519. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016," Eur. Phys. J. C **79**, no. 3, 205 (2019) doi:10.1140/epjc/s10052-019-6650-6 [arXiv:1810.05087 [hep-ex]].

520. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the top quark mass in the $t\bar{t} \to$ lepton+jets channel from $\sqrt{s} = 8$ TeV ATLAS data and combination with previous results," Eur. Phys. J. C **79**, no. 4, 290 (2019) doi:10.1140/epjc/s10052-019-6757-9 [arXiv:1810.01772 [hep-ex]].

521. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s} =$ 13 TeV with the ATLAS detector," JHEP **1901**, 016 (2019) doi:10.1007/JHEP01(2019)016 [arXiv:1809.11105 [hep-ex]].

522. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of photonjet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS," Phys. Lett. B **789**, 167 (2019) doi:10.1016/j.physletb.2018.12.023 [arXiv:1809.07280 [nucl-ex]].

523. M. Aaboud *et al.* [ATLAS Collaboration], "Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **793**, 499 (2019) doi:10.1016/j.physletb.2019.04.024 [arXiv:1809.06682 [hep-ex]].

524. M. Aaboud *et al.* [ATLAS Collaboration], "A search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 1, 012008 (2019) doi:10.1103/PhysRevD.99.012008 [arXiv:1808.10515 [hep-ex]].

525. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \to WW^* \to e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **789**, 508 (2019) doi:10.1016/j.physletb.2018.11.064 [arXiv:1808.09054 [hep-ex]].

526. M. Aaboud *et al.* [ATLAS Collaboration], "Performance of top-quark and W-boson tagging with ATLAS in Run 2 of the LHC," Eur. Phys. J. C **79**, no. 5, 375 (2019) doi:10.1140/epjc/s10052-019-6847-8 [arXiv:1808.07858 [hep-ex]].

527. M. Aaboud *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in final states with hadronically decaying τ-leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 1, 012009 (2019) doi:10.1103/PhysRevD.99.012009 [arXiv:1808.06358 [hep-ex]].

528. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using an ionisation measurement with the ATLAS detector," Phys. Lett. B **788**, 96 (2019) doi:10.1016/j.physletb.2018.10.055 [arXiv:1808.04095 [hep-ex]].

529. M. Aaboud *et al.* [ATLAS Collaboration], "Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **99**, no. 1, 012001 (2019) doi:10.1103/PhysRevD.99.012001 [arXiv:1808.03057 [hep-ex]].

530. M. Aaboud *et al.* [ATLAS Collaboration], "Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector," Eur. Phys. J. C **79**, no. 1, 58 (2019) doi:10.1140/epjc/s10052-018-6500-y [arXiv:1808.01899 [hep-ex]].

531. M. Aaboud *et al.* [ATLAS Collaboration], "Search for resonant and non-resonant Higgs boson pair production in the $b\bar{b}\tau^+\tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **121**, no. 19, 191801 (2018) Erratum: [Phys. Rev. Lett. **122**, no. 8, 089901 (2019)] doi:10.1103/PhysRevLett.122.089901, 10.1103/PhysRevLett.121.191801 [arXiv:1808.00336 [hep-ex]].

532. M. Aaboud *et al.* [ATLAS Collaboration], "Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **788**, 347 (2019) doi:10.1016/j.physletb.2018.11.032 [arXiv:1807.10473 [hep-ex]].

533. M. Aaboud *et al.* [ATLAS Collaboration], "In situ calibration of large-radius jet energy and mass in 13 TeV protonproton collisions with the ATLAS detector," Eur. Phys. J. C **79**, no. 2, 135 (2019) doi:10.1140/epjc/s10052-019-6632-8 [arXiv:1807.09477 [hep-ex]].

534. M. Aaboud *et al.* [ATLAS Collaboration], "A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment," Eur. Phys. J. C **79**, no. 2, 120 (2019) doi:10.1140/epjc/s10052-019-6540-y [arXiv:1807.07447 [hep-ex]].

535. M. Aaboud *et al.* [ATLAS Collaboration], "Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector," Phys. Lett. B **789**, 444 (2019) doi:10.1016/j.physletb.2018.11.065 [arXiv:1807.02012 [nucl-ex]].

536. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson decays into a pair of light bosons in the $bb\mu\mu$ final state in pp collision at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Lett. B **790**, 1 (2019) doi:10.1016/j.physletb.2018.10.073 [arXiv:1807.00539 [hep-ex]].

537. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Phys. Lett. B **790**, 108 (2019) doi:10.1016/j.physletb.2018.10.076 [arXiv:1805.05635 [nucl-ex]].

538. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1901**, 030 (2019) doi:10.1007/JHEP01(2019)030 [arXiv:1804.06174 [hep-ex]].

539. M. Aaboud *et al.* [ATLAS Collaboration], "Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **788**, 316 (2019) doi:10.1016/j.physletb.2018.09.062 [arXiv:1801.08769 [hep-ex]].

540. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector," JHEP **1709**, 084 (2017) Erratum: [JHEP **1908**, 121 (2019)] doi:10.1007/JHEP09(2017)084, 10.1007/JHEP08(2019)121 [arXiv:1706.03731 [hep-ex]].

541. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS," Eur. Phys. J. C **77**, no. 4, 264 (2017) Erratum: [Eur. Phys. J. C **79**, no. 1, 19 (2019)] doi:10.1140/epjc/s10052-018-6520-7, 10.1140/epjc/s10052-017-4819-4 [arXiv:1612.02577 [hep-ex]].

542. G. Aad *et al.* [ATLAS Collaboration], "A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," New J. Phys. **18**, no. 7, 073021 (2016) Erratum: [New J. Phys. **21**, no. 10, 109501 (2019)] doi:10.1088/1367-2630/ab46ed, 10.1088/1367-2630/18/7/073021 [arXiv:1601.05627 [hep-ex]].

543. V. M. Abazov *et al.* [D0 Collaboration], "Properties of $Z_c^{\pm}(3900)$ Produced in $p\bar{p}$ Collision," Phys. Rev. D **100**, 012005 (2019) doi:10.1103/PhysRevD.100.012005 [arXiv:1905.13704 [hep-ex]].

544. M. Aaboud *et al.* [ATLAS Collaboration], "Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\rm beam} = 4$ TeV," JINST **13**, no. 12, P12006 (2018) doi:10.1088/1748-0221/13/12/P12006 [arXiv:1810.04450 [hep-ex]].

545. M. Aaboud *et al.* [ATLAS Collaboration], "Observation of $H \to b\bar{b}$ decays and VH production with the ATLAS detector," Phys. Lett. B **786**, 59 (2018) doi:10.1016/j.physletb.2018.09.013 [arXiv:1808.08238 [hep-ex]].

546. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{\rm NN}} = 5.02$ TeV Pb+Pb collisions with the ATLAS detector," Eur. Phys. J. C **78**, no. 12, 997 (2018) doi:10.1140/epjc/s10052-018-6468-7 [arXiv:1808.03951 [nucl-ex]].

547. M. Aaboud *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1811**, 085 (2018) doi:10.1007/JHEP11(2018)085 [arXiv:1808.03599 [hep-ex]].

548. M. Aaboud *et al.* [ATLAS Collaboration], "Combination of the searches for pair-produced vector-like partners of the third-generation quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **121**, no. 21, 211801 (2018) doi:10.1103/PhysRevLett.121.211801 [arXiv:1808.02343 [hep-ex]].

549. M. Aaboud *et al.* [ATLAS Collaboration], "Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 5, 052008 (2018) doi:10.1103/PhysRevD.98.052008 [arXiv:1808.02380 [hep-ex]].

550. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of heavy vector-like quarks decaying into hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 9, 092005 (2018) doi:10.1103/PhysRevD.98.092005 [arXiv:1808.01771 [hep-ex]].

551. M. Aaboud *et al.* [ATLAS Collaboration], "Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \to 4\ell$ and $ZZ \to 2\ell 2\nu$ final states with the ATLAS detector," Phys. Lett. B **786**, 223 (2018) doi:10.1016/j.physletb.2018.09.048 [arXiv:1808.01191 [hep-ex]].

552. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}\tau^+\tau^-$ Decay Channel in pp Collisions at $\sqrt{s} = 13$TeV with the ATLAS Detector," Phys. Rev. Lett. **121**, no. 19, 191801 (2018) doi:10.1103/PhysRevLett.121.191801 [arXiv:1808.00336 [hep-ex]].

553. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1812**, 039 (2018) doi:10.1007/JHEP12(2018)039 [arXiv:1807.11883 [hep-ex]].

554. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1810**, 180 (2018) doi:10.1007/JHEP10(2018)180 [arXiv:1807.11471 [hep-ex]].

555. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **98**, no. 5, 052003 (2018) doi:10.1103/PhysRevD.98.052003 [arXiv:1807.08639 [hep-ex]].

556. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $\gamma\gamma WW^*$ channel using pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 12, 1007 (2018) doi:10.1140/epjc/s10052-018-6457-x [arXiv:1807.08567 [hep-ex]].

557. M. Aaboud *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons decaying via $H^\pm \to \tau^\pm\nu_\tau$ in the τ+jets and τ+lepton final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment," JHEP **1809**, 139 (2018) doi:10.1007/JHEP09(2018)139 [arXiv:1807.07915 [hep-ex]].

558. M. Aaboud *et al.* [ATLAS Collaboration], "Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s} = 13$TeV with the ATLAS detector," Phys. Rev. D **98**, no. 9, 092008 (2018) doi:10.1103/PhysRevD.98.092008 [arXiv:1807.06573 [hep-ex]].

559. M. Aaboud *et al.* [ATLAS Collaboration], "Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ Tev with the ATLAS detector," Eur. Phys. J. C **78**, no. 9, 784 (2018) doi:10.1140/epjc/s10052-018-6243-9 [arXiv:1807.05198 [nucl-ex]].

560. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment," JHEP **1811**, 040 (2018) doi:10.1007/JHEP11(2018)040 [arXiv:1807.04873 [hep-ex]].

561. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for exclusive Higgs and Z boson decays into $J/\psi\gamma$, $\psi(2S)\gamma$, and $\Upsilon(nS)\gamma$ at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **786**, 134 (2018) doi:10.1016/j.physletb.2018.09.024 [arXiv:1807.00802 [hep-ex]].

562. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair- and single-production of vector-like quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s} = 13$ TeV," Phys. Rev. D **98**, no. 11, 112010 (2018) doi:10.1103/PhysRevD.98.112010 [arXiv:1806.10555 [hep-ex]].

563. M. Aaboud *et al.* [ATLAS Collaboration], "Observation of centrality-dependent acoplanarity for muon pairs produced via two-photon scattering in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. Lett. **121**, no. 21, 212301 (2018) doi:10.1103/PhysRevLett.121.212301 [arXiv:1806.08708 [nucl-ex]].

564. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \to aa \to 4b$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1810**, 031 (2018) doi:10.1007/JHEP10(2018)031 [arXiv:1806.07355 [hep-ex]].

565. M. Aaboud *et al.* [ATLAS Collaboration], "Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **121**, no. 15, 152002 (2018) doi:10.1103/PhysRevLett.121.152002 [arXiv:1806.04667 [hep-ex]].

566. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of higgsinos in final states with at least three b-tagged jets in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector," Phys. Rev. D **98**, no. 9, 092002 (2018) doi:10.1103/PhysRevD.98.092002 [arXiv:1806.04030 [hep-ex]].

567. M. Aaboud *et al.* [ATLAS Collaboration], "Operation and performance of the ATLAS Tile Calorimeter in Run 1," Eur. Phys. J. C **78**, no. 12, 987 (2018) doi:10.1140/epjc/s10052-018-6374-z [arXiv:1806.02129 [hep-ex]].

568. M. Aaboud *et al.* [ATLAS Collaboration], "Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 9, 092012 (2018) doi:10.1103/PhysRevD.98.092012 [arXiv:1806.02293 [hep-ex]].

569. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of heavy vector-like quarks decaying into high-p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1808**, 048 (2018) doi:10.1007/JHEP08(2018)048 [arXiv:1806.01762 [hep-ex]].

570. M. Aaboud *et al.* [ATLAS Collaboration], "Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **787**, 68 (2018) doi:10.1016/j.physletb.2018.10.021 [arXiv:1806.01532 [hep-ex]].

571. M. Aaboud *et al.* [ATLAS Collaboration], "Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector," Phys. Lett. B **784**, 173 (2018) doi:10.1016/j.physletb.2018.07.035 [arXiv:1806.00425 [hep-ex]].

572. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the Higgs boson mass in the $H \to ZZ^* \to 4\ell$ and $H \to \gamma\gamma$ channels with $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector," Phys. Lett. B **784**, 345 (2018) doi:10.1016/j.physletb.2018.07.050 [arXiv:1806.00242 [hep-ex]].

573. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **78**, no. 8, 625 (2018) doi:10.1140/epjc/s10052-018-6081-9 [arXiv:1805.11381 [hep-ex]].

574. M. Aaboud *et al.* [ATLAS Collaboration], "Combined measurement of differential and total cross sections in the $H \to \gamma\gamma$ and the $H \to ZZ^* \to 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **786**, 114 (2018) doi:10.1016/j.physletb.2018.09.019 [arXiv:1805.10197 [hep-ex]].

575. M. Aaboud *et al.* [ATLAS Collaboration], "Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, 032016 (2018) doi:10.1103/PhysRevD.98.032016 [arXiv:1805.09299 [hep-ex]].

576. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. C **98**, no. 2, 024908 (2018) doi:10.1103/PhysRevC.98.024908 [arXiv:1805.05424 [nucl-ex]].

577. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector," Phys. Rev. C **98**, no. 4, 044905 (2018) doi:10.1103/PhysRevC.98.044905 [arXiv:1805.05220 [nucl-ex]].

578. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and determination of the strong coupling," Phys. Rev. D **98**, no. 9, 092004 (2018) doi:10.1103/PhysRevD.98.092004 [arXiv:1805.04691 [hep-ex]].

579. M. Aaboud *et al.* [ATLAS Collaboration], "Angular analysis of $B^0_d \to K^* \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1810**, 047 (2018) doi:10.1007/JHEP10(2018)047 [arXiv:1805.04000 [hep-ex]].

580. M. Aaboud *et al.* [ATLAS Collaboration], "Prompt and non-prompt J/ψ and ψ(2S) suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment," Eur. Phys. J. C **78**, no. 9, 762 (2018) doi:10.1140/epjc/s10052-018-6219-9 [arXiv:1805.04077 [nucl-ex]].

581. M. Aaboud *et al.* [ATLAS Collaboration], "Search for flavor-changing neutral currents in top quark decays $t \to Hc$ and $t \to Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 3, 032002 (2018) doi:10.1103/PhysRevD.98.032002 [arXiv:1805.03483 [hep-ex]].

582. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13\,\text{TeV}$," Eur. Phys. J. C **78**, no. 10, 847 (2018) doi:10.1140/epjc/s10052-018-6290-2 [arXiv:1805.02935 [hep-ex]].

583. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector," JHEP **1809**, 050 (2018) doi:10.1007/JHEP09(2018)050 [arXiv:1805.01649 [hep-ex]].

584. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy resonances decaying to a photon and a hadronically decaying $Z/W/H$ boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 3, 032015 (2018) doi:10.1103/PhysRevD.98.032015 [arXiv:1805.01908 [hep-ex]].

585. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV," JHEP **1808**, 089 (2018) doi:10.1007/JHEP08(2018)089 [arXiv:1805.01845 [hep-ex]].

586. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 7, 565 (2018) doi:10.1140/epjc/s10052-018-5995-6 [arXiv:1804.10823 [hep-ex]].

587. M. Aaboud *et al.* [ATLAS Collaboration], "A search for lepton-flavor-violating decays of the Z boson into a τ-lepton and a light lepton with the ATLAS detector," Phys. Rev. D **98**, 092010 (2018) doi:10.1103/PhysRevD.98.092010 [arXiv:1804.09568 [hep-ex]].

588. M. Aaboud *et al.* [ATLAS Collaboration], "Search for R-parity-violating supersymmetric particles in multi-jet final states produced in p-p collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC," Phys. Lett. B **785**, 136 (2018) doi:10.1016/j.physletb.2018.08.021 [arXiv:1804.03568 [hep-ex]].

589. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS," Phys. Rev. D **98**, no. 3, 032009 (2018) doi:10.1103/PhysRevD.98.032009 [arXiv:1804.03602 [hep-ex]].

590. M. Aaboud *et al.* [ATLAS Collaboration], "Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. Lett. **121**, no. 8, 081801 (2018) doi:10.1103/PhysRevLett.121.081801 [arXiv:1804.03496 [hep-ex]].

591. M. Aaboud *et al.* [ATLAS Collaboration], "Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell bb$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **783**, 392 (2018) doi:10.1016/j.physletb.2018.07.006 [arXiv:1804.01126 [hep-ex]].

592. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **782**, 750 (2018) doi:10.1016/j.physletb.2018.06.011 [arXiv:1803.11145 [hep-ex]].

593. M. Aaboud *et al.* [ATLAS Collaboration], "Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, no. 3, 032008 (2018) doi:10.1103/PhysRevD.98.032008 [arXiv:1803.10178 [hep-ex]].

594. M. Aaboud *et al.* [ATLAS Collaboration], "Search for flavour-changing neutral current top-quark decays $t \to qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1807**, 176 (2018) doi:10.1007/JHEP07(2018)176 [arXiv:1803.09923 [hep-ex]].

595. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector," JHEP **1807**, 089 (2018) doi:10.1007/JHEP07(2018)089 [arXiv:1803.09678 [hep-ex]].

596. M. Aaboud *et al.* [ATLAS Collaboration], "Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 12, 995 (2018) doi:10.1140/epjc/s10052-018-6423-7 [arXiv:1803.02762 [hep-ex]].

597. B. Abbott *et al.* [ATLAS IBL Collaboration], "Production and Integration of the ATLAS Insertable B-Layer," JINST **13**, no. 05, T05008 (2018) doi:10.1088/1748-0221/13/05/T05008 [arXiv:1803.00844 [physics.ins-det]].

598. M. Aaboud *et al.* [ATLAS Collaboration], "Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **78**, no. 11, 903 (2018) doi:10.1140/epjc/s10052-018-6288-9 [arXiv:1802.08168 [hep-ex]].

599. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," JHEP **1810**, 159 (2018) doi:10.1007/JHEP10(2018)159 [arXiv:1802.06572 [hep-ex]].

600. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment," Phys. Rev. Lett. **120**, no. 21, 211802 (2018) doi:10.1103/PhysRevLett.120.211802 [arXiv:1802.04329 [hep-ex]].

601. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of Higgs boson properties in the diphoton decay channel with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **98**, 052005 (2018) doi:10.1103/PhysRevD.98.052005 [arXiv:1802.04146 [hep-ex]].

602. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s} = 13$ TeV," JHEP **1806**, 166 (2018) doi:10.1007/JHEP06(2018)166 [arXiv:1802.03388 [hep-ex]].

603. M. Aaboud *et al.* [ATLAS Collaboration], "Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **97**, no. 9, 092006 (2018) doi:10.1103/PhysRevD.97.092006 [arXiv:1802.03158 [hep-ex]].

604. M. Aaboud *et al.* [ATLAS Collaboration], "Search for a Structure in the $B_s^0\pi^\pm$ Invariant Mass Spectrum with the ATLAS Experiment," Phys. Rev. Lett. **120**, no. 20, 202007 (2018) doi:10.1103/PhysRevLett.120.202007 [arXiv:1802.01840 [hep-ex]].

605. M. Aaboud *et al.* [ATLAS Collaboration], "Search for $W' \to tb$ decays in the hadronic final state using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **781**, 327 (2018) doi:10.1016/j.physletb.2018.03.036 [arXiv:1801.07893 [hep-ex]].

606. M. Aaboud *et al.* [ATLAS Collaboration], "Search for High-Mass Resonances Decaying to $\tau\nu$ in pp Collisions at $\sqrt{s}$=13TeV with the ATLAS Detector," Phys. Rev. Lett. **120**, no. 16, 161802 (2018) doi:10.1103/PhysRevLett.120.161802 [arXiv:1801.06992 [hep-ex]].

607. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Rev. D **98**, no. 1, 012003 (2018) doi:10.1103/PhysRevD.98.012003 [arXiv:1801.02052 [hep-ex]].

608. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Lett. B **780**, 578 (2018) doi:10.1016/j.physletb.2018.03.035 [arXiv:1801.00112 [hep-ex]].

609. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 13$TeV with the ATLAS detector," Phys. Rev. D **97**, no. 7, 072016 (2018) doi:10.1103/PhysRevD.97.072016 [arXiv:1712.08895 [hep-ex]].

610. M. Aaboud *et al.* [ATLAS Collaboration], "Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector," Phys. Rev. D **97**, no. 7, 072003 (2018) doi:10.1103/PhysRevD.97.072003 [arXiv:1712.08891 [hep-ex]].

611. M. Aaboud *et al.* [ATLAS Collaboration], "Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **97**, no. 5, 052010 (2018) doi:10.1103/PhysRevD.97.052010 [arXiv:1712.08119 [hep-ex]].

612. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Phys. Lett. B **781**, 55 (2018) doi:10.1016/j.physletb.2018.03.057 [arXiv:1712.07291 [hep-ex]].

613. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, 487 (2018) doi:10.1140/epjc/s10052-018-5904-z [arXiv:1712.06857 [hep-ex]].

614. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **1803**, 174 (2018) Erratum: [JHEP **1811**, 051 (2018)] doi:10.1007/JHEP11(2018)051, 10.1007/JHEP03(2018)174 [arXiv:1712.06518 [hep-ex]].

615. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy ZZ resonances in the $\ell^+\ell^-\ell^+\ell^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 4, 293 (2018) doi:10.1140/epjc/s10052-018-5686-3 [arXiv:1712.06386 [hep-ex]].

616. M. Aaboud *et al.* [ATLAS Collaboration], "Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector," JHEP **1807**, 127 (2018) doi:10.1007/JHEP07(2018)127 [arXiv:1712.02758 [hep-ex]].

617. M. Aaboud *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in final states with jets and missing transverse momentum using 36fb^{-1} of $\sqrt{s} = 13$TeV pp collision data with the ATLAS detector," Phys. Rev. D **97**, no. 11, 112001 (2018) doi:10.1103/PhysRevD.97.112001 [arXiv:1712.02332 [hep-ex]].

618. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the Higgs boson coupling properties in the $H \to ZZ^* \to 4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1803**, 095 (2018) doi:10.1007/JHEP03(2018)095 [arXiv:1712.02304 [hep-ex]].

619. M. Aaboud *et al.* [ATLAS Collaboration], "Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1806**, 022 (2018) doi:10.1007/JHEP06(2018)022 [arXiv:1712.02118 [hep-ex]].

620. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS," Eur. Phys. J. C **78**, no. 3, 186 (2018) doi:10.1140/epjc/s10052-018-5649-8 [arXiv:1712.01602 [hep-ex]].

621. M. Aaboud *et al.* [ATLAS Collaboration], "Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^1 of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector," JHEP **1806**, 108 (2018) doi:10.1007/JHEP06(2018)108 [arXiv:1711.11520 [hep-ex]].

622. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s} = 13$TeV with the ATLAS Detector," Phys. Rev. Lett. **121**, no. 9, 092001 (2018) doi:10.1103/PhysRevLett.121.092001 [arXiv:1711.08341 [hep-ex]].

623. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector," JHEP **1801**, 126 (2018) doi:10.1007/JHEP01(2018)126 [arXiv:1711.03301 [hep-ex]].

624. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1805**, 077 (2018) doi:10.1007/JHEP05(2018)077 [arXiv:1711.03296 [hep-ex]].

625. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1805**, 195 (2018) doi:10.1007/JHEP05(2018)195 [arXiv:1711.02692 [hep-ex]].

626. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1806**, 107 (2018) doi:10.1007/JHEP06(2018)107 [arXiv:1711.01901 [hep-ex]].

627. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **78**, no. 1, 18 (2018) doi:10.1140/epjc/s10052-017-5486-1 [arXiv:1710.11412 [hep-ex]].

628. M. Aaboud *et al.* [ATLAS Collaboration], "Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using protonproton collisions at $\sqrt{s} = 13$ TeV," Eur. Phys. J. C **78**, no. 3, 199 (2018) doi:10.1140/EPJC/S10052-018-5661-Z, 10.1140/epjc/s10052-018-5661-z [arXiv:1710.09748 [hep-ex]].

629. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Phys. Lett. B **776**, 295 (2018) doi:10.1016/j.physletb.2017.11.054 [arXiv:1710.09560 [hep-ex]].

630. M. Aaboud *et al.* [ATLAS Collaboration], "Search for WW/WZ resonance production in $\ell\nu qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1803**, 042 (2018) doi:10.1007/JHEP03(2018)042 [arXiv:1710.07235 [hep-ex]].

631. M. Aaboud *et al.* [ATLAS Collaboration], "A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 3, 250 (2018) doi:10.1140/epjc/s10052-018-5693-4 [arXiv:1710.07171 [hep-ex]].

632. M. Aaboud *et al.* [ATLAS Collaboration], "Search for B-L R -parity-violating top squarks in $\sqrt{s}$ =13TeV pp collisions with the ATLAS experiment," Phys. Rev. D **97**, no. 3, 032003 (2018) doi:10.1103/PhysRevD.97.032003 [arXiv:1710.05544 [hep-ex]].

633. M. Aaboud *et al.* [ATLAS Collaboration], "Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **97**, no. 5, 052012 (2018) doi:10.1103/PhysRevD.97.052012 [arXiv:1710.04901 [hep-ex]].

634. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the production cross-section of a single top quark in association with a Z boson in protonproton collisions at 13 TeV with the ATLAS detector," Phys. Lett. B **780**, 557 (2018) doi:10.1016/j.physletb.2018.03.023 [arXiv:1710.03659 [hep-ex]].

635. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy resonances decaying into WW in the $e\nu\mu\nu$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 1, 24 (2018) doi:10.1140/epjc/s10052-017-5491-4 [arXiv:1710.01123 [hep-ex]].

636. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 2, 102 (2018) doi:10.1140/epjc/s10052-018-5553-2 [arXiv:1709.10440 [hep-ex]].

637. M. Aaboud *et al.* [ATLAS Collaboration], "$ZZ \to \ell^+\ell^-\ell'^+\ell'^-$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector," Phys. Rev. D **97**, no. 3, 032005 (2018) doi:10.1103/PhysRevD.97.032005 [arXiv:1709.07703 [hep-ex]].

638. M. Aaboud *et al.* [ATLAS Collaboration], "Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^1 of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1801**, 055 (2018) doi:10.1007/JHEP01(2018)055 [arXiv:1709.07242 [hep-ex]].

639. M. Aaboud *et al.* [ATLAS Collaboration], "A search for resonances decaying into a Higgs boson and a new particle X in the $XH \to qqbb$ final state with the ATLAS detector," Phys. Lett. B **779**, 24 (2018) doi:10.1016/j.physletb.2018.01.042 [arXiv:1709.06783 [hep-ex]].

640. M. Aaboud *et al.* [ATLAS and CMS Collaborations], "Combination of inclusive and differential $\mathrm{t\bar{t}}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV," JHEP **1804**, 033 (2018) doi:10.1007/JHEP04(2018)033 [arXiv:1709.05327 [hep-ex]].

641. M. Aaboud *et al.* [ATLAS Collaboration], "Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s}$=8 TeV with the ATLAS experiment," Eur. Phys. J. C **78**, no. 2, 129 (2018) doi:10.1140/epjc/s10052-018-5595-5 [arXiv:1709.04207 [hep-ex]].

642. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of τ polarisation in $Z/\gamma^* \to \tau\tau$ decays in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 2, 163 (2018) doi:10.1140/epjc/s10052-018-5619-1 [arXiv:1709.03490 [hep-ex]].

643. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of quarkonium production in protonlead and protonproton collisions at 5.02 TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 3, 171 (2018) doi:10.1140/epjc/s10052-018-5624-4 [arXiv:1709.03089 [nucl-ex]].

644. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ and 5.02 TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 2, 142 (2018) doi:10.1140/epjc/s10052-018-5605-7 [arXiv:1709.02301 [nucl-ex]].

645. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for heavy ZZ and ZW resonances in the $\ell\ell qq$ and $\nu\nu qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1803**, 009 (2018) doi:10.1007/JHEP03(2018)009 [arXiv:1708.09638 [hep-ex]].

646. M. Aaboud *et al.* [ATLAS Collaboration], "Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **776**, 318 (2018) doi:10.1016/j.physletb.2017.11.049 [arXiv:1708.09624 [hep-ex]].

647. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **78**, no. 2, 154 (2018) doi:10.1140/epjc/s10052-018-5583-9 [arXiv:1708.07875 [hep-ex]].

648. M. Aaboud *et al.* [ATLAS Collaboration], "Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **777**, 91 (2018) doi:10.1016/j.physletb.2017.12.011 [arXiv:1708.04445 [hep-ex]].

649. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the exclusive $\gamma\gamma \to \mu^+\mu^-$ process in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **777**, 303 (2018) doi:10.1016/j.physletb.2017.12.043 [arXiv:1708.04053 [hep-ex]].

650. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in *pp* and $p + Pb$ collisions with the ATLAS detector at the CERN Large Hadron Collider," Phys. Rev. C **97**, no. 2, 024904 (2018) doi:10.1103/PhysRevC.97.024904 [arXiv:1708.03559 [hep-ex]].

651. M. Aaboud *et al.* [ATLAS Collaboration], "Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment," Eur. Phys. J. C **78**, no. 5, 401 (2018) doi:10.1140/epjc/s10052-018-5877-y [arXiv:1706.04786 [hep-ex]].

652. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **78**, no. 2, 110 (2018) Erratum: [Eur. Phys. J. C **78**, no. 11, 898 (2018)] doi:10.1140/epjc/s10052-018-6354-3, 10.1140/epjc/s10052-017-5475-4 [arXiv:1701.07240 [hep-ex]].

653. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS," JHEP **1801**, 063 (2018) doi:10.1007/JHEP01(2018)063 [arXiv:1612.07231 [hep-ex]].

654. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for $Z_c^{\pm}(3900)$ in semi-inclusive decays of b-flavored hadrons," Phys. Rev. D **98**, no. 5, 052010 (2018) doi:10.1103/PhysRevD.98.052010 [arXiv:1807.00183 [hep-ex]].

655. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Tevatron Run II combination of the effective leptonic electroweak mixing angle," Phys. Rev. D **97**, no. 11, 112007 (2018) doi:10.1103/PhysRevD.97.112007 [arXiv:1801.06283 [hep-ex]].

656. V. M. Abazov *et al.* [D0 Collaboration], "Study of the $X^{\pm}(5568)$ state with semileptonic decays of the B_s^0 meson," Phys. Rev. D **97**, no. 9, 092004 (2018) doi:10.1103/PhysRevD.97.092004 [arXiv:1712.10176 [hep-ex]].

657. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Effective Weak Mixing Angle in $p\bar{p} \to Z/\gamma^* \to \ell^+\ell^-$ Events," Phys. Rev. Lett. **120**, no. 24, 241802 (2018) doi:10.1103/PhysRevLett.120.241802 [arXiv:1710.03951 [hep-ex]].

658. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron," Phys. Rev. Lett. **120**, no. 4, 042001 (2018) doi:10.1103/PhysRevLett.120.042001 [arXiv:1709.04894 [hep-ex]].

659. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the Drell-Yan triple-differential cross section in *pp* collisions at $\sqrt{s} = 8$ TeV," JHEP **1712**, 059 (2017) doi:10.1007/JHEP12(2017)059 [arXiv:1710.05167 [hep-ex]].

660. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **775**, 206 (2017) doi:10.1016/j.physletb.2017.10.040 [arXiv:1709.10264 [hep-ex]].

661. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ production in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 11, 804 (2017) doi:10.1140/epjc/s10052-017-5349-9 [arXiv:1709.09407 [hep-ex]].

662. M. Aaboud *et al.* [ATLAS Collaboration], "Study of ordered hadron chains with the ATLAS detector," Phys. Rev. D **96**, no. 9, 092008 (2017) doi:10.1103/PhysRevD.96.092008 [arXiv:1709.07384 [hep-ex]].

663. M. Aaboud *et al.* [ATLAS Collaboration], "Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1712**, 085 (2017) doi:10.1007/JHEP12(2017)085 [arXiv:1709.04183 [hep-ex]].

664. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1711**, 195 (2017) doi:10.1007/JHEP11(2017)195 [arXiv:1708.09266 [hep-ex]].

665. M. Aaboud *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **96**, no. 11, 112010 (2017) doi:10.1103/PhysRevD.96.112010 [arXiv:1708.08232 [hep-ex]].

666. M. Aaboud *et al.* [ATLAS Collaboration], "Evidence for the $H \to b\bar{b}$ decay with the ATLAS detector," JHEP **1712**, 024 (2017) doi:10.1007/JHEP12(2017)024 [arXiv:1708.03299 [hep-ex]].

667. M. Aaboud *et al.* [ATLAS Collaboration], "Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **77**, no. 12, 898 (2017) doi:10.1140/epjc/s10052-017-5445-x [arXiv:1708.03247 [hep-ex]].

668. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of inclusive and differential cross sections in the $H \to ZZ^* \to 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1710**, 132 (2017) doi:10.1007/JHEP10(2017)132 [arXiv:1708.02810 [hep-ex]].

669. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions," JHEP **1712**, 034 (2017) doi:10.1007/JHEP12(2017)034 [arXiv:1708.02794 [hep-ex]].

670. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," JHEP **1711**, 191 (2017) doi:10.1007/JHEP11(2017)191 [arXiv:1708.00727 [hep-ex]].

671. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1710**, 112 (2017) doi:10.1007/JHEP10(2017)112 [arXiv:1708.00212 [hep-ex]].

672. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $q\bar{q}^{(\prime)}b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **774**, 494 (2017) doi:10.1016/j.physletb.2017.09.066 [arXiv:1707.06958 [hep-ex]].

673. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector," Phys. Rev. Lett. **119**, no. 19, 191803 (2017) doi:10.1103/PhysRevLett.119.191803 [arXiv:1707.06025 [hep-ex]].

674. M. Aaboud *et al.* [ATLAS Collaboration], "Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV and search for anomalous quartic gauge couplings with the ATLAS experiment," Eur. Phys. J. C **77**, no. 9, 646 (2017) doi:10.1140/epjc/s10052-017-5180-3 [arXiv:1707.05597 [hep-ex]].

675. M. Aaboud *et al.* [ATLAS Collaboration], "Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $\sqrt{s}$ = 8 TeV with the ATLAS detector," JHEP **1712**, 017 (2017) doi:10.1007/JHEP12(2017)017 [arXiv:1707.05393 [hep-ex]].

676. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in high-mass diphoton final states using 37 fb^{-1} of proton–proton collisions collected at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **775**, 105 (2017) doi:10.1016/j.physletb.2017.10.039 [arXiv:1707.04147 [hep-ex]].

677. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of heavy vector-like quarks decaying to high-p$_T$ W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1710**, 141 (2017) doi:10.1007/JHEP10(2017)141 [arXiv:1707.03347 [hep-ex]].

678. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in *pp* collisions at $\sqrt{\mathbf{s}} = \mathbf{13}$ TeV using the ATLAS detector," Eur. Phys. J. C **77**, no. 11, 765 (2017) doi:10.1140/epjc/s10052-017-5315-6 [arXiv:1707.03263 [hep-ex]].

679. M. Aaboud *et al.* [ATLAS Collaboration], "Study of the material of the ATLAS inner detector for Run 2 of the LHC," JINST **12**, no. 12, P12009 (2017) doi:10.1088/1748-0221/12/12/P12009 [arXiv:1707.02826 [hep-ex]].

680. M. Aaboud *et al.* [ATLAS Collaboration], "Determination of the strong coupling constant $\alpha_{\rm s}$ from transverse energyenergy correlations in multijet events at $\sqrt{s} = 8$ TeV using the ATLAS detector," Eur. Phys. J. C **77**, no. 12, 872 (2017) doi:10.1140/epjc/s10052-017-5442-0 [arXiv:1707.02562 [hep-ex]].

681. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new high-mass phenomena in the dilepton final state using 36 fb^1 of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1710**, 182 (2017) doi:10.1007/JHEP10(2017)182 [arXiv:1707.02424 [hep-ex]].

682. M. Aaboud *et al.* [ATLAS Collaboration], "Search for top quark decays $t \to qH$, with $H \to \gamma\gamma$, in $\sqrt{s} = 13$ TeV *pp* collisions using the ATLAS detector," JHEP **1710**, 129 (2017) doi:10.1007/JHEP10(2017)129 [arXiv:1707.01404 [hep-ex]].

683. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ using 36 fb^{-1} of *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector," Phys. Rev. Lett. **119**, no. 18, 181804 (2017) doi:10.1103/PhysRevLett.119.181804 [arXiv:1707.01302 [hep-ex]].

684. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet $p_{\rm T}$ correlations in Pb+Pb and *pp* collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector," Phys. Lett. B **774**, 379 (2017) doi:10.1016/j.physletb.2017.09.078 [arXiv:1706.09363 [hep-ex]].

685. M. Aaboud *et al.* [ATLAS Collaboration], "Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $\sqrt{s} = 13$ TeV *pp* collisions with the ATLAS detector," JHEP **1708**, 006 (2017) doi:10.1007/JHEP08(2017)006 [arXiv:1706.03986 [hep-ex]].

686. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **96**, no. 11, 112004 (2017) doi:10.1103/PhysRevD.96.112004 [arXiv:1706.03948 [hep-ex]].

687. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb^{-1} of $\sqrt{s} = 13$ TeV *pp* collision data with the ATLAS detector," JHEP **1709**, 084 (2017) doi:10.1007/JHEP09(2017)084 [arXiv:1706.03731 [hep-ex]].

688. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1709**, 020 (2017) doi:10.1007/JHEP09(2017)020 [arXiv:1706.03192 [hep-ex]].

689. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1711**, 086 (2017) doi:10.1007/JHEP11(2017)086 [arXiv:1706.03046 [hep-ex]].

690. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of $WW/WZ \to \ell\nu qq'$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s} = 8$ TeV with ATLAS, and constraints on anomalous gauge couplings," Eur. Phys. J. C **77**, no. 8, 563 (2017) doi:10.1140/epjc/s10052-017-5084-2 [arXiv:1706.01702 [hep-ex]].

691. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," JHEP **1708**, 052 (2017) doi:10.1007/JHEP08(2017)052 [arXiv:1705.10751 [hep-ex]].

692. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the dimuon decay of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. Lett. **119**, no. 5, 051802 (2017) doi:10.1103/PhysRevLett.119.051802 [arXiv:1705.04582 [hep-ex]].

693. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector," Eur. Phys. J. C **77**, no. 6, 428 (2017) doi:10.1140/epjc/s10052-017-4988-1 [arXiv:1705.04176 [hep-ex]].

694. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV," JHEP **1711**, 062 (2017) doi:10.1007/JHEP11(2017)062 [arXiv:1705.03374 [hep-ex]].

695. M. Aaboud *et al.* [ATLAS Collaboration], "Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector," Eur. Phys. J. C **77**, no. 9, 580 (2017) Erratum: [Eur. Phys. J. C **77**, no. 10, 712 (2017)] doi:10.1140/epjc/s10052-017-5081-5, 10.1140/epjc/s10052-017-5245-3 [arXiv:1705.02211 [hep-ex]].

696. M. Aaboud *et al.* [ATLAS Collaboration], "Studies of $Z\gamma$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1707**, 107 (2017) doi:10.1007/JHEP07(2017)107 [arXiv:1705.01966 [hep-ex]].

697. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data," JHEP **1709**, 088 (2017) doi:10.1007/JHEP09(2017)088 [arXiv:1704.08493 [hep-ex]].

698. M. Aaboud *et al.* [ATLAS Collaboration], "Performance of the ATLAS Track Reconstruction Algorithms in Dense Environments in LHC Run 2," Eur. Phys. J. C **77**, no. 10, 673 (2017) doi:10.1140/epjc/s10052-017-5225-7 [arXiv:1704.07983 [hep-ex]].

699. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector," Eur. Phys. J. C **77**, no. 6, 393 (2017) doi:10.1140/epjc/s10052-017-4965-8 [arXiv:1704.03848 [hep-ex]].

700. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **95**, no. 11, 112005 (2017) doi:10.1103/PhysRevD.95.112005 [arXiv:1704.03839 [hep-ex]].

701. M. Aaboud *et al.* [ATLAS Collaboration], "Femtoscopy with identified charged pions in proton-lead collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with ATLAS," Phys. Rev. C **96**, no. 6, 064908 (2017) doi:10.1103/PhysRevC.96.064908 [arXiv:1704.01621 [hep-ex]].

702. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $k_{\rm t}$ splitting scales in $Z \to \ell\ell$ events in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1708**, 026 (2017) doi:10.1007/JHEP08(2017)026 [arXiv:1704.01530 [hep-ex]].

703. M. Aaboud *et al.* [ATLAS Collaboration], "Jet reconstruction and performance using particle flow with the ATLAS Detector," Eur. Phys. J. C **77**, no. 7, 466 (2017) doi:10.1140/epjc/s10052-017-5031-2 [arXiv:1703.10485 [hep-ex]].

704. M. Aaboud *et al.* [ATLAS Collaboration], "Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **96**, no. 7, 072002 (2017) doi:10.1103/PhysRevD.96.072002 [arXiv:1703.09665 [hep-ex]].

705. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in dijet events using 37 fb^{-1} of *pp* collision data collected at $\sqrt{s}$ =13 TeV with the ATLAS detector," Phys. Rev. D **96**, no. 5, 052004 (2017) doi:10.1103/PhysRevD.96.052004 [arXiv:1703.09127 [hep-ex]].

706. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of electroweak Wjj production and constraints on anomalous gauge couplings with the ATLAS detector," Eur. Phys. J. C **77**, no. 7, 474 (2017) doi:10.1140/epjc/s10052-017-5007-2 [arXiv:1703.04362 [hep-ex]].

707. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross section in the τ + jets final state in *pp* collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Phys. Rev. D **95**, no. 7, 072003 (2017) doi:10.1103/PhysRevD.95.072003 [arXiv:1702.08839 [hep-ex]].

708. M. Aaboud *et al.* [ATLAS Collaboration], "Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1704**, 124 (2017) doi:10.1007/JHEP04(2017)124 [arXiv:1702.08309 [hep-ex]].

709. M. Aaboud *et al.* [ATLAS Collaboration], "Top-quark mass measurement in the all-hadronic $t\bar{t}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1709**, 118 (2017) doi:10.1007/JHEP09(2017)118 [arXiv:1702.07546 [hep-ex]].

710. M. Aaboud *et al.* [ATLAS Collaboration], "Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties," JINST **12**, no. 05, P05002 (2017) doi:10.1088/1748-0221/12/05/P05002 [arXiv:1702.06473 [hep-ex]].

711. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 6, 361 (2017) doi:10.1140/epjc/s10052-017-4900-z [arXiv:1702.05725 [hep-ex]].

712. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the W^+W^- production cross section in *pp* collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment," Phys. Lett. B **773**, 354 (2017) doi:10.1016/j.physletb.2017.08.047 [arXiv:1702.04519 [hep-ex]].

713. M. Aaboud *et al.* [ATLAS Collaboration], "Fiducial, total and differential cross-section measurements of t-channel single top-quark production in *pp* collisions at 8 TeV using data collected by the ATLAS detector," Eur. Phys. J. C **77**, no. 8, 531 (2017) doi:10.1140/epjc/s10052-017-5061-9 [arXiv:1702.02859 [hep-ex]].

714. M. Aaboud *et al.* [ATLAS Collaboration], "Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC," Nature Phys. **13**, no. 9, 852 (2017) doi:10.1038/nphys4208 [arXiv:1702.01625 [hep-ex]].

715. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet fragmentation in Pb+Pb and *pp* collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector at the LHC," Eur. Phys. J. C **77**, no. 6, 379 (2017) doi:10.1140/epjc/s10052-017-4915-5 [arXiv:1702.00674 [hep-ex]].

716. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the cross section for inclusive isolated-photon production in *pp* collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Phys. Lett. B **770**, 473 (2017) doi:10.1016/j.physletb.2017.04.072 [arXiv:1701.06882 [hep-ex]].

717. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector at the LHC," JHEP **1703**, 157 (2017) doi:10.1007/JHEP03(2017)157 [arXiv:1701.05390 [hep-ex]].

718. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," JHEP **1703**, 113 (2017) doi:10.1007/JHEP03(2017)113 [arXiv:1612.07004 [hep-ex]].

719. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of top-quark pair differential cross-sections in the $e\mu$ channel in *pp* collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector," Eur. Phys. J. C **77**, no. 5, 292 (2017) doi:10.1140/epjc/s10052-017-4821-x [arXiv:1612.05220 [hep-ex]].

720. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of top-quark pair to Z-boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector," JHEP **1702**, 117 (2017) doi:10.1007/JHEP02(2017)117 [arXiv:1612.03636 [hep-ex]].

721. M. Aaboud *et al.* [ATLAS Collaboration], "Precision measurement and interpretation of inclusive W^+ , W^- and Z/γ^* production cross sections with the ATLAS detector," Eur. Phys. J. C **77**, no. 6, 367 (2017) doi:10.1140/epjc/s10052-017-4911-9 [arXiv:1612.03016 [hep-ex]].

722. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the prompt J/ ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 2, 76 (2017) doi:10.1140/epjc/s10052-017-4644-9 [arXiv:1612.02950 [hep-ex]].

723. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS," Eur. Phys. J. C **77**, no. 4, 264 (2017) doi:10.1140/epjc/s10052-017-4819-4 [arXiv:1612.02577 [hep-ex]].

724. M. Aaboud *et al.* [ATLAS Collaboration], "Electron efficiency measurements with the ATLAS detector using 2012 LHC protonproton collision data," Eur. Phys. J. C **77**, no. 3, 195 (2017) doi:10.1140/epjc/s10052-017-4756-2 [arXiv:1612.01456 [hep-ex]].

725. M. Aaboud *et al.* [ATLAS Collaboration], "Reconstruction of primary vertices at the ATLAS experiment in Run 1 protonproton collisions at the LHC," Eur. Phys. J. C **77**, no. 5, 332 (2017) doi:10.1140/epjc/s10052-017-4887-5 [arXiv:1611.10235 [physics.ins-det]].

726. M. Aaboud *et al.* [ATLAS Collaboration], "Performance of the ATLAS Trigger System in 2015," Eur. Phys. J. C **77**, no. 5, 317 (2017) doi:10.1140/epjc/s10052-017-4852-3 [arXiv:1611.09661 [hep-ex]].

727. M. Aaboud *et al.* [ATLAS Collaboration], "High-$E_{\rm T}$ isolated-photon plus jets production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Nucl. Phys. B **918**, 257 (2017) doi:10.1016/j.nuclphysb.2017.03.006 [arXiv:1611.06586 [hep-ex]].

728. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 13$ pp collisions with the ATLAS detector," Eur. Phys. J. C **77**, no. 3, 144 (2017) doi:10.1140/epjc/s10052-017-4700-5 [arXiv:1611.05791 [hep-ex]].

729. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of $W^{\pm}W^{\pm}$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector," Phys. Rev. D **96**, no. 1, 012007 (2017) doi:10.1103/PhysRevD.96.012007 [arXiv:1611.02428 [hep-ex]].

730. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 4, 220 (2017) doi:10.1140/epjc/s10052-017-4766-0 [arXiv:1610.09978 [hep-ex]].

731. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of $\psi(2S)$ and $X(3872) \to J/\psi\pi^+\pi^-$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1701**, 117 (2017) doi:10.1007/JHEP01(2017)117 [arXiv:1610.09303 [hep-ex]].

732. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV," JHEP **1702**, 071 (2017) doi:10.1007/JHEP02(2017)071 [arXiv:1610.07869 [hep-ex]].

733. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the $ZZ \to \ell^-\ell^+\ell'^-\ell'^+$ and $ZZ \to \ell^-\ell^+\nu\bar{\nu}$ channels with the ATLAS detector," JHEP **1701**, 099 (2017) doi:10.1007/JHEP01(2017)099 [arXiv:1610.07585 [hep-ex]].

734. M. Aaboud *et al.* [ATLAS Collaboration], "Search for triboson $W^{\pm}W^{\pm}W^{\mp}$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 3, 141 (2017) doi:10.1140/epjc/s10052-017-4692-1 [arXiv:1610.05088 [hep-ex]].

735. G. Aad *et al.* [ATLAS Collaboration], "Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector," Eur. Phys. J. C **77**, no. 4, 241 (2017) doi:10.1140/epjc/s10052-017-4780-2 [arXiv:1609.09324 [hep-ex]].

736. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s} = 8$ TeV using the ATLAS detector," Phys. Lett. B **765**, 132 (2017) doi:10.1016/j.physletb.2016.12.005 [arXiv:1609.07045 [hep-ex]].

737. M. Aaboud *et al.* [ATLAS Collaboration], "Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for pp collisions at $\sqrt{s} = 5.02$ and 13 TeV and p+Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Phys. Rev. C **96**, no. 2, 024908 (2017) doi:10.1103/PhysRevC.96.024908 [arXiv:1609.06213 [nucl-ex]].

738. M. Aaboud *et al.* [ATLAS Collaboration], "Search for anomalous electroweak production of WW/WZ in association with a high-mass dijet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **95**, no. 3, 032001 (2017) doi:10.1103/PhysRevD.95.032001 [arXiv:1609.05122 [hep-ex]].

739. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter in association with a Higgs boson decaying to b-quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **765**, 11 (2017) doi:10.1016/j.physletb.2016.11.035 [arXiv:1609.04572 [hep-ex]].

740. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1704**, 086 (2017) doi:10.1007/JHEP04(2017)086 [arXiv:1609.03920 [hep-ex]].

741. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **77**, no. 1, 40 (2017) doi:10.1140/epjc/s10052-016-4574-y [arXiv:1609.01599 [hep-ex]].

742. M. Aaboud *et al.* [ATLAS Collaboration], "A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector," Eur. Phys. J. C **77**, no. 1, 26 (2017) doi:10.1140/epjc/s10052-016-4580-0 [arXiv:1607.08842 [hep-ex]].

743. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **764**, 11 (2017) doi:10.1016/j.physletb.2016.11.005 [arXiv:1607.06363 [hep-ex]].

744. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\ell^+\ell^- b\bar{b}$, $\ell\nu b\bar{b}$, and $\nu\bar{\nu}b\bar{b}$ channels with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **765**, 32 (2017) doi:10.1016/j.physletb.2016.11.045 [arXiv:1607.05621 [hep-ex]].

745. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector," Phys. Rev. C **95**, no. 6, 064914 (2017) doi:10.1103/PhysRevC.95.064914 [arXiv:1606.08170 [hep-ex]].

746. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Phys. Lett. B **761**, 136 (2016) Erratum: [Phys. Lett. B **772**, 879 (2017)] doi:10.1016/j.physletb.2016.08.019, 10.1016/j.physletb.2017.09.027 [arXiv:1606.02699 [hep-ex]].

747. G. Aad *et al.* [ATLAS Collaboration], "Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector," Eur. Phys. J. C **77**, no. 2, 70 (2017) doi:10.1140/epjc/s10052-017-4624-0 [arXiv:1604.07730 [hep-ex]].

748. G. Aad *et al.* [ATLAS Collaboration], "Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1," Eur. Phys. J. C **77**, 490 (2017) doi:10.1140/epjc/s10052-017-5004-5 [arXiv:1603.02934 [hep-ex]].

749. V. M. Abazov *et al.* [D0 Collaboration], "Combination of D0 measurements of the top quark mass," Phys. Rev. D **95**, no. 11, 112004 (2017) doi:10.1103/PhysRevD.95.112004 [arXiv:1703.06994 [hep-ex]].

750. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the direct CP violating charge asymmetry in $B^\pm \to \mu^\pm \nu_\mu D^0$ decays," Phys. Rev. D **95**, no. 3, 031101 (2017) doi:10.1103/PhysRevD.95.031101 [arXiv:1608.00863 [hep-ex]].

751. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of top quark polarization in $t\bar{t}$ lepton+jets final states," Phys. Rev. D **95**, no. 1, 011101 (2017) doi:10.1103/PhysRevD.95.011101 [arXiv:1607.07627 [hep-ex]].

752. M. Aaboud *et al.* [ATLAS Collaboration], "A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions," JINST **11**, no. 11, P11020 (2016) doi:10.1088/1748-0221/11/11/P11020 [arXiv:1609.04305 [hep-ex]].

753. M. Aaboud *et al.* [ATLAS Collaboration], "Luminosity determination in pp collisions at $\sqrt{s}$ = 8 TeV using the ATLAS detector at the LHC," Eur. Phys. J. C **76**, no. 12, 653 (2016) doi:10.1140/epjc/s10052-016-4466-1 [arXiv:1608.03953 [hep-ex]].

754. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of W^+W^- production in association with one jet in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **763**, 114 (2016) doi:10.1016/j.physletb.2016.10.014 [arXiv:1608.03086 [hep-ex]].

755. M. Aaboud *et al.* [ATLAS Collaboration], "Search for dark matter produced in association with a hadronically decaying vector boson in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **763**, 251 (2016) doi:10.1016/j.physletb.2016.10.042 [arXiv:1608.02372 [hep-ex]].

756. M. Aaboud *et al.* [ATLAS Collaboration], "Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment," JHEP **1611**, 110 (2016) doi:10.1007/JHEP11(2016)110 [arXiv:1608.01857 [hep-ex]].

757. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Minimal Supersymmetric Standard Model Higgs bosons H/A and for a Z' boson in the $\tau\tau$ final state produced in *pp* collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector," Eur. Phys. J. C **76**, no. 11, 585 (2016) doi:10.1140/epjc/s10052-016-4400-6 [arXiv:1608.00890 [hep-ex]].

758. M. Aaboud *et al.* [ATLAS Collaboration], "Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions," JHEP **1609**, 175 (2016) doi:10.1007/JHEP09(2016)175 [arXiv:1608.00872 [hep-ex]].

759. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 12, 670 (2016) doi:10.1140/epjc/s10052-016-4521-y [arXiv:1607.08430 [hep-ex]].

760. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13$ Tev with the ATLAS detector," Eur. Phys. J. C **76**, no. 10, 541 (2016) doi:10.1140/epjc/s10052-016-4385-1 [arXiv:1607.08079 [hep-ex]].

761. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of top quark pair differential cross-sections in the dilepton channel in *pp* collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS," Phys. Rev. D **94**, no. 9, 092003 (2016) doi:10.1103/PhysRevD.94.092003 [arXiv:1607.07281 [hep-ex]].

762. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the total cross section from elastic scattering in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **761**, 158 (2016) doi:10.1016/j.physletb.2016.08.020 [arXiv:1607.06605 [hep-ex]].

763. M. Aaboud *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in protonproton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector," Eur. Phys. J. C **76**, no. 12, 683 (2016) doi:10.1140/epjc/s10052-016-4481-2 [arXiv:1607.05979 [hep-ex]].

764. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of exclusive $\gamma\gamma \to W^+W^-$ production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Phys. Rev. D **94**, no. 3, 032011 (2016) doi:10.1103/PhysRevD.94.032011 [arXiv:1607.03745 [hep-ex]].

765. M. Aaboud *et al.* [ATLAS Collaboration], "Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **761**, 372 (2016) doi:10.1016/j.physletb.2016.08.055 [arXiv:1607.03669 [hep-ex]].

766. M. Aaboud *et al.* [ATLAS Collaboration], "Search for Higgs and Z Boson Decays to $\phi\,\gamma$ with the ATLAS Detector," Phys. Rev. Lett. **117**, no. 11, 111802 (2016) doi:10.1103/PhysRevLett.117.111802 [arXiv:1607.03400 [hep-ex]].

767. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of jet activity in top quark events using the $e\mu$ final state with two b-tagged jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1609**, 074 (2016) doi:10.1007/JHEP09(2016)074 [arXiv:1606.09490 [hep-ex]].

768. M. Aaboud *et al.* [ATLAS Collaboration], "Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the LHC using the ATLAS detector," Eur. Phys. J. C **76**, no. 9, 517 (2016) doi:10.1140/epjc/s10052-016-4344-x [arXiv:1606.09150 [hep-ex]].

769. M. Aaboud *et al.* [ATLAS Collaboration], "Search for bottom squark pair production in protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 10, 547 (2016) doi:10.1140/epjc/s10052-016-4382-4 [arXiv:1606.08772 [hep-ex]].

770. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 11, 605 (2016) doi:10.1140/epjc/s10052-016-4418-9 [arXiv:1606.08391 [hep-ex]].

771. G. Aad *et al.* [ATLAS Collaboration], "The performance of the jet trigger for the ATLAS detector during 2011 data taking," Eur. Phys. J. C **76**, no. 10, 526 (2016) doi:10.1140/epjc/s10052-016-4325-0 [arXiv:1606.07759 [hep-ex]].

772. M. Aaboud *et al.* [ATLAS Collaboration], "Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb^{-1} of proton–proton collision data at $\sqrt{s} = 13$ TeV," Phys. Lett. B **760**, 647 (2016) doi:10.1016/j.physletb.2016.07.042 [arXiv:1606.05129 [hep-ex]].

773. M. Aaboud *et al.* [ATLAS Collaboration], "Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1609**, 173 (2016) doi:10.1007/JHEP09(2016)173 [arXiv:1606.04833 [hep-ex]].

774. M. Aaboud *et al.* [ATLAS Collaboration], "Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **94**, no. 5, 052002 (2016) doi:10.1103/PhysRevD.94.052002 [arXiv:1606.04782 [hep-ex]].

775. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $W^{\pm}Z$ boson pair-production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector," Phys. Lett. B **762**, 1 (2016) doi:10.1016/j.physletb.2016.08.052 [arXiv:1606.04017 [hep-ex]].

776. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **762**, 334 (2016) doi:10.1016/j.physletb.2016.09.040 [arXiv:1606.03977 [hep-ex]].

777. M. Aaboud *et al.* [ATLAS Collaboration], "Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **94**, no. 5, 052009 (2016) doi:10.1103/PhysRevD.94.052009 [arXiv:1606.03903 [hep-ex]].

778. M. Aaboud *et al.* [ATLAS Collaboration], "Search for resonances in diphoton events at $\sqrt{s}$=13 TeV with the ATLAS detector," JHEP **1609**, 001 (2016) doi:10.1007/JHEP09(2016)001 [arXiv:1606.03833 [hep-ex]].

779. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector," Phys. Lett. B **761**, 136 (2016) Erratum: [Phys. Lett. B **772**, 879 (2017)] doi:10.1016/j.physletb.2016.08.019, 10.1016/j.physletb.2017.09.027 [arXiv:1606.02699 [hep-ex]].

780. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$TeV with the ATLAS Detector at the LHC," Phys. Rev. Lett. **117**, no. 18, 182002 (2016) doi:10.1103/PhysRevLett.117.182002 [arXiv:1606.02625 [hep-ex]].

781. G. Aad *et al.* [ATLAS and CMS Collaborations], "Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV," JHEP **1608**, 045 (2016) doi:10.1007/JHEP08(2016)045 [arXiv:1606.02266 [hep-ex]].

782. M. Aaboud *et al.* [ATLAS Collaboration], "Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 13$ TeV," Phys. Lett. B **760**, 520 (2016) doi:10.1016/j.physletb.2016.07.030 [arXiv:1606.02265 [hep-ex]].

783. M. Aaboud *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," JHEP **1611**, 112 (2016) doi:10.1007/JHEP11(2016)112 [arXiv:1606.02181 [hep-ex]].

784. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the top quark mass in the $t\bar{t} \to$ dilepton channel from $\sqrt{s} = 8$ TeV ATLAS data," Phys. Lett. B **761**, 350 (2016) doi:10.1016/j.physletb.2016.08.042 [arXiv:1606.02179 [hep-ex]].

785. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data," Eur. Phys. J. C **76**, no. 12, 666 (2016) doi:10.1140/epjc/s10052-016-4507-9 [arXiv:1606.01813 [hep-ex]].

786. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1608**, 009 (2016) doi:10.1007/JHEP08(2016)009 [arXiv:1606.01736 [hep-ex]].

787. M. Aaboud *et al.* [ATLAS Collaboration], "Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC," Eur. Phys. J. C **76**, no. 9, 502 (2016) doi:10.1140/epjc/s10052-016-4335-y [arXiv:1606.01133 [hep-ex]].

788. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1608**, 159 (2016) doi:10.1007/JHEP08(2016)159 [arXiv:1606.00689 [hep-ex]].

789. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Rev. D **94**, no. 3, 032003 (2016) doi:10.1103/PhysRevD.94.032003 [arXiv:1605.09318 [hep-ex]].

790. M. Aaboud *et al.* [ATLAS Collaboration], "Measurement of the relative width difference of the B^0-$\bar{B}^0$ system with the ATLAS detector," JHEP **1606**, 081 (2016) doi:10.1007/JHEP06(2016)081 [arXiv:1605.07485 [hep-ex]].

791. G. Aad *et al.* [ATLAS Collaboration], "Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s_{NN}} = 5.02$ TeV p + Pb collisions measured by the ATLAS experiment," Phys. Lett. B **763**, 313 (2016) doi:10.1016/j.physletb.2016.10.053 [arXiv:1605.06436 [hep-ex]].

792. M. Aaboud *et al.* [ATLAS Collaboration], "Search for scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment," New J. Phys. **18**, no. 9, 093016 (2016) doi:10.1088/1367-2630/18/9/093016 [arXiv:1605.06035 [hep-ex]].

793. G. Aad *et al.* [ATLAS Collaboration], "Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ Te V with the ATLAS detector," Eur. Phys. J. C **76**, no. 10, 565 (2016) doi:10.1140/epjc/s10052-016-4397-x [arXiv:1605.04285 [hep-ex]].

794. M. Aaboud *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 7, 392 (2016) doi:10.1140/epjc/s10052-016-4184-8 [arXiv:1605.03814 [hep-ex]].

795. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1608**, 005 (2016) doi:10.1007/JHEP08(2016)005 [arXiv:1605.03495 [hep-ex]].

796. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in final states with an energetic jet and large missing transverse momentum in *pp* collisions at $\sqrt{s} = 13$TeV using the ATLAS detector," Phys. Rev. D **94**, no. 3, 032005 (2016) doi:10.1103/PhysRevD.94.032005 [arXiv:1604.07773 [hep-ex]].

797. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **94**, no. 3, 032006 (2016) doi:10.1103/PhysRevD.94.032006 [arXiv:1604.05538 [hep-ex]].

798. G. Aad *et al.* [ATLAS Collaboration], "Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **93**, no. 11, 112002 (2016) doi:10.1103/PhysRevD.93.112002 [arXiv:1604.05232 [hep-ex]].

799. M. Aaboud *et al.* [ATLAS Collaboration], "Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment," Phys. Rev. D **93**, no. 11, 112015 (2016) doi:10.1103/PhysRevD.93.112015 [arXiv:1604.04520 [hep-ex]].

800. M. Aaboud *et al.* [ATLAS Collaboration], "Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector," Eur. Phys. J. C **76**, no. 9, 513 (2016) doi:10.1140/epjc/s10052-016-4338-8 [arXiv:1604.04263 [hep-ex]].

801. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} =$ 8 TeV with the ATLAS detector," JHEP **1605**, 160 (2016) doi:10.1007/JHEP05(2016)160 [arXiv:1604.03812 [hep-ex]].

802. G. Aad *et al.* [ATLAS Collaboration], "Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to WWe with the ATLAS detector at $\sqrt{s} = 8$ TeV," JHEP **1608**, 104 (2016) doi:10.1007/JHEP08(2016)104 [arXiv:1604.02997 [hep-ex]].

803. M. Aaboud *et al.* [ATLAS Collaboration], "Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1606**, 059 (2016) doi:10.1007/JHEP06(2016)059 [arXiv:1604.01306 [hep-ex]].

804. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $W^{\pm}$ and Z-boson production cross sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **759**, 601 (2016) doi:10.1016/j.physletb.2016.06.023 [arXiv:1603.09222 [hep-ex]].

805. M. Aaboud *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons produced in association with a top quark and decaying via $H^{\pm} \to \tau\nu$ using pp collision data recorded at $\sqrt{s} = 13$ TeV by the ATLAS detector," Phys. Lett. B **759**, 555 (2016) doi:10.1016/j.physletb.2016.06.017 [arXiv:1603.09203 [hep-ex]].

806. G. Aad *et al.* [ATLAS Collaboration], "Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period," JINST **11**, no. 05, P05013 (2016) doi:10.1088/1748-0221/11/05/P05013 [arXiv:1603.09202 [hep-ex]].

807. M. Aaboud *et al.* [ATLAS Collaboration], "Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **759**, 229 (2016) doi:10.1016/j.physletb.2016.05.064 [arXiv:1603.08791 [hep-ex]].

808. G. Aad *et al.* [ATLAS Collaboration], "Muon reconstruction performance of the ATLAS detector in protonproton collision data at $\sqrt{s}$ =13 TeV," Eur. Phys. J. C **76**, no. 5, 292 (2016) doi:10.1140/epjc/s10052-016-4120-y [arXiv:1603.05598 [hep-ex]].

809. G. Aad *et al.* [ATLAS Collaboration], "Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1606**, 093 (2016) doi:10.1007/JHEP06(2016)093 [arXiv:1603.03127 [hep-ex]].

810. G. Aad *et al.* [ATLAS Collaboration], "Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector," Eur. Phys. J. C **76**, no. 7, 403 (2016) doi:10.1140/epjc/s10052-016-4203-9 [arXiv:1603.02439 [hep-ex]].

811. G. Aad *et al.* [ATLAS Collaboration], "Measurements of $W^{\pm}Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings," Phys. Rev. D **93**, no. 9, 092004 (2016) doi:10.1103/PhysRevD.93.092004 [arXiv:1603.02151 [hep-ex]].

812. G. Aad *et al.* [ATLAS Collaboration], "Measurement of total and differential W^+W^- production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings," JHEP **1609**, 029 (2016) doi:10.1007/JHEP09(2016)029 [arXiv:1603.01702 [hep-ex]].

813. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry at $\sqrt{s} = 13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector," Eur. Phys. J. C **76**, no. 5, 259 (2016) doi:10.1140/epjc/s10052-016-4095-8 [arXiv:1602.09058 [hep-ex]].

814. G. Aad *et al.* [ATLAS Collaboration], "Measurement of event-shape observables in $Z \to \ell^+\ell^-$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC," Eur. Phys. J. C **76**, no. 7, 375 (2016) doi:10.1140/epjc/s10052-016-4176-8 [arXiv:1602.08980 [hep-ex]].

815. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s} = 13$ TeV

proton-proton collisions," Phys. Lett. B **757**, 334 (2016) doi:10.1016/j.physletb.2016.04.005 [arXiv:1602.06194 [hep-ex]].

816. G. Aad *et al.* [ATLAS Collaboration], "Search for single production of a vector-like quark via a heavy gluon in the $4b$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **758**, 249 (2016) doi:10.1016/j.physletb.2016.04.061 [arXiv:1602.06034 [hep-ex]].

817. G. Aad *et al.* [ATLAS Collaboration], "Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 8, 442 (2016) doi:10.1140/epjc/s10052-016-4281-8 [arXiv:1602.05606 [hep-ex]].

818. G. Aad *et al.* [ATLAS Collaboration], "Test of CP Invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector," Eur. Phys. J. C **76**, no. 12, 658 (2016) doi:10.1140/epjc/s10052-016-4499-5 [arXiv:1602.04516 [hep-ex]].

819. G. Aad *et al.* [ATLAS Collaboration], "Charged-particle distributions in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC," Phys. Lett. B **758**, 67 (2016) doi:10.1016/j.physletb.2016.04.050 [arXiv:1602.01633 [hep-ex]].

820. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **76**, no. 6, 322 (2016) doi:10.1140/epjc/s10052-016-4126-5 [arXiv:1602.00988 [hep-ex]].

821. G. Aad *et al.* [ATLAS Collaboration], "A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s} = 8$ TeV proton-proton collisions," JHEP **1606**, 067 (2016) doi:10.1007/JHEP06(2016)067 [arXiv:1601.07453 [hep-ex]].

822. G. Aad *et al.* [ATLAS Collaboration], "A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," New J. Phys. **18**, no. 7, 073021 (2016) doi:10.1088/1367-2630/18/7/073021 [arXiv:1601.05627 [hep-ex]].

823. G. Aad *et al.* [ATLAS Collaboration], "Probing lepton flavour violation via neutrinoless $\tau \longrightarrow 3\mu$ decays with the ATLAS detector," Eur. Phys. J. C **76**, no. 5, 232 (2016) doi:10.1140/epjc/s10052-016-4041-9 [arXiv:1601.03567 [hep-ex]].

824. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the CP-violating phase ϕ_s and the B_s^0 meson decay width difference with $B_s^0 \to J/\psi\phi$ decays in ATLAS," JHEP **1608**, 147 (2016) doi:10.1007/JHEP08(2016)147 [arXiv:1601.03297 [hep-ex]].

825. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s} = 8$ TeV pp collision data collected by the ATLAS experiment," Phys. Lett. B **756**, 52 (2016) doi:10.1016/j.physletb.2016.02.055 [arXiv:1512.06092 [hep-ex]].

826. G. Aad *et al.* [ATLAS Collaboration], "Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment," Eur. Phys. J. C **76**, no. 5, 295 (2016) doi:10.1140/epjc/s10052-016-4110-0 [arXiv:1512.05955 [hep-ex]].

827. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," JHEP **1603**, 041 (2016) doi:10.1007/JHEP03(2016)041 [arXiv:1512.05910 [hep-ex]].

828. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector," Phys. Rev. Lett. **116**, no. 10, 101801 (2016) doi:10.1103/PhysRevLett.116.101801 [arXiv:1512.05314 [hep-ex]].

829. G. Aad *et al.* [ATLAS Collaboration], "Combination of searches for WW, WZ, and ZZ resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **755**, 285 (2016) doi:10.1016/j.physletb.2016.02.015 [arXiv:1512.05099 [hep-ex]].

830. G. Aad *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons in the $H^{\pm} \to tb$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," JHEP **1603**, 127 (2016) doi:10.1007/JHEP03(2016)127 [arXiv:1512.03704 [hep-ex]].

831. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 5, 283 (2016) doi:10.1140/epjc/s10052-016-4050-8 [arXiv:1512.03657 [hep-ex]].

832. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $D^{*\pm}$, $D^{\pm}$ and $D_s^{\pm}$ meson production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Nucl. Phys. B **907**, 717 (2016) doi:10.1016/j.nuclphysb.2016.04.032 [arXiv:1512.02913 [hep-ex]].

833. G. Aad *et al.* [ATLAS Collaboration], "Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC," JHEP **1603**, 026 (2016) doi:10.1007/JHEP03(2016)026 [arXiv:1512.02586 [hep-ex]].

834. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the transverse momentum and ϕ_{η}^{*} distributions of DrellYan lepton pairs in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 5, 291 (2016) doi:10.1140/epjc/s10052-016-4070-4 [arXiv:1512.02192 [hep-ex]].

835. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," Phys. Lett. B **754**, 302 (2016) doi:10.1016/j.physletb.2016.01.032 [arXiv:1512.01530 [hep-ex]].

836. G. Aad *et al.* [ATLAS Collaboration], "Performance of b-Jet Identification in the ATLAS Experiment," JINST **11**, no. 04, P04008 (2016) doi:10.1088/1748-0221/11/04/P04008 [arXiv:1512.01094 [hep-ex]].

837. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s} = 2.76$ TeV with ATLAS," Phys. Lett. B **756**, 10 (2016) doi:10.1016/j.physletb.2016.02.056 [arXiv:1512.00197 [hep-ex]].

838. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **93**, no. 9, 092005 (2016) doi:10.1103/PhysRevD.93.092005 [arXiv:1511.08352 [hep-ex]].

839. G. Aad *et al.* [ATLAS Collaboration], "Evidence for single top-quark production in the s-channel in proton-proton collisions at $\sqrt{s}$ =8 TeV with the ATLAS detector using the Matrix Element Method," Phys. Lett. B **756**, 228 (2016) doi:10.1016/j.physletb.2016.03.017 [arXiv:1511.05980 [hep-ex]].

840. G. Aad *et al.* [ATLAS Collaboration], "A search for prompt lepton-jets in pp collisions at $\sqrt{s} =$ 8 TeV with the ATLAS detector," JHEP **1602**, 062 (2016) doi:10.1007/JHEP02(2016)062 [arXiv:1511.05542 [hep-ex]].

841. G. Aad *et al.* [ATLAS Collaboration], "Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector,"

Eur. Phys. J. C **76**, no. 10, 538 (2016) doi:10.1140/epjc/s10052-016-4366-4 [arXiv:1511.04716 [hep-ex]].

842. G. Aad *et al.* [ATLAS Collaboration], "Dijet production in $\sqrt{s} = 7$ TeV pp collisions with large rapidity gaps at the ATLAS experiment," Phys. Lett. B **754**, 214 (2016) doi:10.1016/j.physletb.2016.01.028 [arXiv:1511.00502 [hep-ex]].

843. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the correlations between the polar angles of leptons from top quark decays in the helicity basis at $\sqrt{s} = 7$TeV using the ATLAS detector," Phys. Rev. D **93**, no. 1, 012002 (2016) doi:10.1103/PhysRevD.93.012002 [arXiv:1510.07478 [hep-ex]].

844. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **93**, no. 7, 072007 (2016) doi:10.1103/PhysRevD.93.072007 [arXiv:1510.06218 [hep-ex]].

845. G. Aad *et al.* [ATLAS Collaboration], "Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 3, 154 (2016) doi:10.1140/epjc/s10052-016-3978-z [arXiv:1510.05821 [hep-ex]].

846. G. Aad *et al.* [ATLAS Collaboration], "Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," Eur. Phys. J. C **76**, no. 11, 581 (2016) doi:10.1140/epjc/s10052-016-4395-z [arXiv:1510.03823 [hep-ex]].

847. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector," Phys. Rev. D **93**, no. 3, 032009 (2016) doi:10.1103/PhysRevD.93.032009 [arXiv:1510.03818 [hep-ex]].

848. G. Aad *et al.* [ATLAS Collaboration], "Search for anomalous couplings in the Wtb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector," JHEP **1604**, 023 (2016) doi:10.1007/JHEP04(2016)023 [arXiv:1510.03764 [hep-ex]].

849. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment," JHEP **1601**, 064 (2016) doi:10.1007/JHEP01(2016)064 [arXiv:1510.03752 [hep-ex]].

850. G. Aad *et al.* [ATLAS Collaboration], "Search for the production of single vector-like and excited quarks in the Wt final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1602**, 110 (2016) doi:10.1007/JHEP02(2016)110 [arXiv:1510.02664 [hep-ex]].

851. G. Aad *et al.* [ATLAS Collaboration], "Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector," Phys. Rev. D **93**, no. 5, 052009 (2016) doi:10.1103/PhysRevD.93.052009 [arXiv:1509.08059 [hep-ex]].

852. G. Aad *et al.* [ATLAS Collaboration], "Measurements of four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **753**, 552 (2016) doi:10.1016/j.physletb.2015.12.048 [arXiv:1509.07844 [hep-ex]].

853. G. Aad *et al.* [ATLAS Collaboration], "Search for the electroweak production of supersymmetric particles in $\sqrt{s}$=8 TeV pp collisions with the ATLAS detector," Phys. Rev. D **93**, no. 5, 052002 (2016) doi:10.1103/PhysRevD.93.052002 [arXiv:1509.07152 [hep-ex]].

854. G. Aad *et al.* [ATLAS Collaboration], "Measurement of jet charge in dijet events from $\sqrt{s}$=8TeV pp collisions with the ATLAS detector," Phys. Rev. D **93**, no. 5, 052003 (2016) doi:10.1103/PhysRevD.93.052003 [arXiv:1509.05190 [hep-ex]].

855. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in events with at least three photons collected in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 4, 210 (2016) doi:10.1140/epjc/s10052-016-4034-8 [arXiv:1509.05051 [hep-ex]].

856. G. Aad *et al.* [ATLAS Collaboration], "Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 2, 81 (2016) doi:10.1140/epjc/s10052-016-3897-z [arXiv:1509.04976 [hep-ex]].

857. G. Aad *et al.* [ATLAS Collaboration], "A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector," Eur. Phys. J. C **76**, no. 5, 238 (2016) doi:10.1140/epjc/s10052-016-4065-1 [arXiv:1509.04939 [hep-ex]].

858. G. Aad *et al.* [ATLAS Collaboration], "Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s}$ =13 and 2.76 TeV *pp* Collisions with the ATLAS Detector," Phys. Rev. Lett. **116**, no. 17, 172301 (2016) doi:10.1103/PhysRevLett.116.172301 [arXiv:1509.04776 [hep-ex]].

859. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 2, 87 (2016) doi:10.1140/epjc/s10052-016-3910-6, 10.1140/epjc/s10052-017-5089-x [arXiv:1509.02358 [hep-ex]].

860. G. Aad *et al.* [ATLAS Collaboration], "Search for a high-mass Higgs boson decaying to a W boson pair in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1601**, 032 (2016) doi:10.1007/JHEP01(2016)032 [arXiv:1509.00389 [hep-ex]].

861. G. Aad *et al.* [ATLAS Collaboration], "Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 2, 55 (2016) doi:10.1140/epjc/s10052-016-3876-4 [arXiv:1509.00294 [hep-ex]].

862. G. Aad *et al.* [ATLAS Collaboration], "Search for invisible decays of a Higgs boson using vector-boson fusion in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1601**, 172 (2016) doi:10.1007/JHEP01(2016)172 [arXiv:1508.07869 [hep-ex]].

863. G. Aad *et al.* [ATLAS Collaboration], "Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s}$ =8 TeV using the ATLAS detector," Eur. Phys. J. C **76**, no. 1, 11 (2016) doi:10.1140/epjc/s10052-015-3852-4 [arXiv:1508.06868 [hep-ex]].

864. G. Aad *et al.* [ATLAS Collaboration], "Search for flavour-changing neutral current top-quark decays to qZ in *pp* collision data collected with the ATLAS detector at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 1, 12 (2016) doi:10.1140/epjc/s10052-015-3851-5 [arXiv:1508.05796 [hep-ex]].

865. G. Aad *et al.* [ATLAS Collaboration], "Searches for scalar leptoquarks in pp collisions at $\sqrt{s} =$ 8 TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 1, 5 (2016) doi:10.1140/epjc/s10052-015-3823-9 [arXiv:1508.04735 [hep-ex]].

866. G. Aad *et al.* [ATLAS Collaboration], "Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the $H \to \gamma\gamma$ decay channel at $\sqrt{s} = 8$TeV with the ATLAS detector," Phys. Lett. B **753**, 69 (2016) doi:10.1016/j.physletb.2015.11.071 [arXiv:1508.02507 [hep-ex]].

867. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector," Eur. Phys. J. C **76**, no. 4, 199 (2016) doi:10.1140/epjc/s10052-016-4002-3 [arXiv:1508.00848 [hep-ex]].

868. G. Aad *et al.* [ATLAS Collaboration], "Study of the $B_c^+ \to J/\psi D_s^+$ and $B_c^+ \to J/\psi D_s^{*+}$ decays with the ATLAS detector," Eur. Phys. J. C **76**, no. 1, 4 (2016) doi:10.1140/epjc/s10052-015-3743-8 [arXiv:1507.07099 [hep-ex]].

869. G. Aad *et al.* [ATLAS Collaboration], "Search for an additional, heavy Higgs boson in the $H \to ZZ$ decay channel at $\sqrt{s} = 8$ TeV in pp collision data with the ATLAS detector," Eur. Phys. J. C **76**, no. 1, 45 (2016) doi:10.1140/epjc/s10052-015-3820-z [arXiv:1507.05930 [hep-ex]].

870. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment," Eur. Phys. J. C **76**, no. 1, 6 (2016) doi:10.1140/epjc/s10052-015-3769-y [arXiv:1507.04548 [hep-ex]].

871. G. Aad *et al.* [ATLAS Collaboration], "ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider," Eur. Phys. J. C **75**, no. 10, 510 (2015) Erratum: [Eur. Phys. J. C **76**, no. 3, 153 (2016)] doi:10.1140/epjc/s10052-015-3726-9, 10.1140/epjc/s10052-016-3935-x [arXiv:1506.08616 [hep-ex]].

872. G. Aad *et al.* [ATLAS Collaboration], "Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV measured with the ATLAS detector," Phys. Rev. C **93**, no. 3, 034914 (2016) doi:10.1103/PhysRevC.93.034914 [arXiv:1506.08552 [hep-ex]].

873. G. Aad *et al.* [ATLAS Collaboration], "Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector," Eur. Phys. J. C **75**, no. 10, 476 (2015) Erratum: [Eur. Phys. J. C **76**, no. 3, 152 (2016)] doi:10.1140/epjc/s10052-015-3685-1, 10.1140/epjc/s10052-016-3934-y [arXiv:1506.05669 [hep-ex]].

874. G. Aad *et al.* [ATLAS Collaboration], "Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Rev. D **91**, no. 11, 112016 (2015) Erratum: [Phys. Rev. D **93**, no. 3, 039901 (2016)] doi:10.1103/PhysRevD.93.039901, 10.1103/PhysRevD.91.112016 [arXiv:1502.05686 [hep-ex]].

875. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 10, 3109 (2014) Addendum: [Eur. Phys. J. C **76**, no. 11, 642 (2016)] doi:10.1140/epjc/s10052-016-4501-2, 10.1140/epjc/s10052-014-3109-7 [arXiv:1406.5375 [hep-ex]].

876. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Top Quark Mass Using the Matrix Element Technique in Dilepton Final States," Phys. Rev. D **94**, no. 3, 032004 (2016) doi:10.1103/PhysRevD.94.032004 [arXiv:1606.02814 [hep-ex]].

877. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the inclusive $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV and determination of the top quark pole mass," Phys. Rev. D **94**, 092004 (2016) doi:10.1103/PhysRevD.94.092004 [arXiv:1605.06168 [hep-ex]].

878. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Forward-Backward Asymmetries in the Production of and Baryons in $p\overline{p}$ Collisions," Phys. Rev. D **93**, no. 11, 112001 (2016) doi:10.1103/PhysRevD.93.112001 [arXiv:1605.03513 [hep-ex]].

879. V. M. Abazov *et al.* [D0 Collaboration], "B_s^0 lifetime measurement in the CP-odd decay channel $B_s^0 \to J/\psi\ f_0(980)$," Phys. Rev. D **94**, no. 1, 012001 (2016) doi:10.1103/PhysRevD.94.012001 [arXiv:1603.01302 [hep-ex]].

880. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for a $B_s^0\pi^\pm$ state," Phys. Rev. Lett. **117**, no. 2, 022003 (2016) doi:10.1103/PhysRevLett.117.022003 [arXiv:1602.07588 [hep-ex]].

881. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of Spin Correlation between Top and Antitop Quarks Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **757**, 199 (2016) doi:10.1016/j.physletb.2016.03.053 [arXiv:1512.08818 [hep-ex]].

882. V. M. Abazov *et al.* [D0 Collaboration], "Study of double parton interactions in diphoton + dijet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **93**, no. 5, 052008 (2016) doi:10.1103/PhysRevD.93.052008 [arXiv:1512.05291 [hep-ex]].

883. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the forward-backward asymmetry of Λ and $\bar{\Lambda}$ production in $p\bar{p}$ collisions," Phys. Rev. D **93**, no. 3, 032002 (2016) doi:10.1103/PhysRevD.93.032002 [arXiv:1511.05113 [hep-ex]].

884. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for simultaneous production of J/ψ and Υ mesons," Phys. Rev. Lett. **116**, no. 8, 082002 (2016) doi:10.1103/PhysRevLett.116.082002 [arXiv:1511.02428 [hep-ex]].

885. V. M. Abazov *et al.* [D0 Collaboration], "Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting," Phys. Lett. B **752**, 18 (2016) doi:10.1016/j.physletb.2015.10.086 [arXiv:1508.03322 [hep-ex]].

886. V. M. Abazov *et al.* [D0 Collaboration], "Search for Violation of CPT and Lorentz invariance in B_s^0 meson oscillations," Phys. Rev. Lett. **115**, no. 16, 161601 (2015) Addendum: [Phys. Rev. Lett. **116**, no. 1, 019901 (2016)] doi:10.1103/PhysRevLett.115.161601, 10.1103/PhysRevLett.116.019901 [arXiv:1506.04123 [hep-ex]].

887. G. Aad *et al.* [ATLAS Collaboration], "Measurement of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector," JHEP **1512**, 105 (2015) doi:10.1007/JHEP12(2015)105 [arXiv:1509.07335 [hep-ex]].

888. G. Aad *et al.* [ATLAS Collaboration], "Search for flavour-changing neutral current top quark decays $t \to Hq$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1512**, 061 (2015) doi:10.1007/JHEP12(2015)061 [arXiv:1509.06047 [hep-ex]].

889. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}W$ and $t\bar{t}Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1511**, 172 (2015) doi:10.1007/JHEP11(2015)172 [arXiv:1509.05276 [hep-ex]].

890. G. Aad *et al.* [ATLAS Collaboration], "Searches for Higgs boson pair production in the $hh \to bb\tau\tau, \gamma\gamma WW^*, \gamma\gamma bb, bbbb$ channels with the ATLAS detector," Phys. Rev. D **92**, 092004 (2015) doi:10.1103/PhysRevD.92.092004 [arXiv:1509.04670 [hep-ex]].

891. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **92**, no. 11, 112007 (2015) doi:10.1103/PhysRevD.92.112007 [arXiv:1509.04261 [hep-ex]].

892. G. Aad *et al.* [ATLAS Collaboration], "Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector," JHEP **1511**, 206 (2015) doi:10.1007/JHEP11(2015)206 [arXiv:1509.00672 [hep-ex]].

893. G. Aad *et al.* [ATLAS Collaboration], "Summary of the ATLAS experiments sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM," JHEP **1510**, 134 (2015) doi:10.1007/JHEP10(2015)134 [arXiv:1508.06608 [hep-ex]].

894. G. Aad *et al.* [ATLAS Collaboration], "Search for lepton-flavour-violating H decays of the Higgs boson with the ATLAS detector," JHEP **1511**, 211 (2015) doi:10.1007/JHEP11(2015)211 [arXiv:1508.03372 [hep-ex]].

895. G. Aad *et al.* [ATLAS Collaboration], "Measurement of transverse energy-energy correlations in multi-jet events in *pp* collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector and determination of the strong coupling constant $\alpha_{\rm s}(m_Z)$," Phys. Lett. B **750**, 427 (2015) doi:10.1016/j.physletb.2015.09.050 [arXiv:1508.01579 [hep-ex]].

896. G. Aad *et al.* [ATLAS Collaboration], "Determination of the ratio of b-quark fragmentation fractions f_s/f_d in *pp* collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **115**, no. 26, 262001 (2015) doi:10.1103/PhysRevLett.115.262001 [arXiv:1507.08925 [hep-ex]].

897. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the branching ratio $\Gamma(\Lambda_b^0 \to \psi(2S)\Lambda^0)/\Gamma(\Lambda_b^0 \to J/\psi\Lambda^0)$ with the ATLAS detector," Phys. Lett. B **751**, 63 (2015) doi:10.1016/j.physletb.2015.10.009 [arXiv:1507.08202 [hep-ex]].

898. G. Aad *et al.* [ATLAS Collaboration], "Z boson production in p+Pb collisions at $\sqrt{s_{NN}} =$ 5.02 TeV measured with the ATLAS detector," Phys. Rev. C **92**, no. 4, 044915 (2015) doi:10.1103/PhysRevC.92.044915 [arXiv:1507.06232 [hep-ex]].

899. G. Aad *et al.* [ATLAS Collaboration], "Summary of the searches for squarks and gluinos using $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment at the LHC," JHEP **1510**, 054 (2015) doi:10.1007/JHEP10(2015)054 [arXiv:1507.05525 [hep-ex]].

900. G. Aad *et al.* [ATLAS Collaboration], "Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector," Phys. Rev. D **92**, no. 7, 072001 (2015) doi:10.1103/PhysRevD.92.072001 [arXiv:1507.05493 [hep-ex]].

901. G. Aad *et al.* [ATLAS Collaboration], "Determination of the top-quark pole mass using $t\bar{t}$ + 1-jet events collected with the ATLAS experiment in 7 TeV pp collisions," JHEP **1510**, 121 (2015) doi:10.1007/JHEP10(2015)121 [arXiv:1507.01769 [hep-ex]].

902. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production of neighbouring jets in leadlead collisions at $\sqrt{s_{\rm NN}} = 2.76$TeV with the ATLAS detector," Phys. Lett. B **751**, 376 (2015) doi:10.1016/j.physletb.2015.10.059 [arXiv:1506.08656 [hep-ex]].

903. G. Aad *et al.* [ATLAS Collaboration], "ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider," Eur. Phys. J. C **75**, no. 10, 510 (2015) Erratum: [Eur. Phys. J. C **76**, no. 3, 153 (2016)] doi:10.1140/epjc/s10052-015-3726-9, 10.1140/epjc/s10052-016-3935-x [arXiv:1506.08616 [hep-ex]].

904. G. Aad *et al.* [ATLAS Collaboration], "Measurement of exclusive $\gamma\gamma \to \ell^+\ell^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **749**, 242 (2015) doi:10.1016/j.physletb.2015.07.069 [arXiv:1506.07098 [hep-ex]].

905. G. Aad *et al.* [ATLAS Collaboration], "Study of (W/Z)H production and Higgs boson couplings using $H \to WW^*$ decays with the ATLAS detector," JHEP **1508**, 137 (2015) doi:10.1007/JHEP08(2015)13 [arXiv:1506.06641 [hep-ex]].

906. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV," JHEP **1507**, 162 (2015) doi:10.1007/JHEP07(2015)162 [arXiv:1506.06020 [hep-ex]].

907. G. Aad *et al.* [ATLAS Collaboration], "Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector," Phys. Lett. B **749**, 519 (2015) doi:10.1016/j.physletb.2015.07.079 [arXiv:1506.05988 [hep-ex]].

908. G. Aad *et al.* [ATLAS Collaboration], "Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector," Eur. Phys. J. C **75**, no. 10, 476 (2015) Erratum: [Eur. Phys. J. C **76**, no. 3, 152 (2016)] doi:10.1140/epjc/s10052-015-3685-1, 10.1140/epjc/s10052-016-3934-y [arXiv:1506.05669 [hep-ex]].

909. G. Aad *et al.* [ATLAS Collaboration], "Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s} = 8$ TeV," Phys. Lett. B **750**, 475 (2015) doi:10.1016/j.physletb.2015.09.051 [arXiv:1506.05629 [hep-ex]].

910. G. Aad *et al.* [ATLAS Collaboration], "Modelling $Z \to \tau\tau$ processes in ATLAS with τ-embedded $Z \to \mu\mu$ data," JINST **10**, no. 09, P09018 (2015) doi:10.1088/1748-0221/10/09/P09018, 10.1088/1748-0221/2015/9/P09018 [arXiv:1506.05623 [hep-ex]].

911. G. Aad *et al.* [ATLAS Collaboration], "Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment," Eur. Phys. J. C **75**, no. 9, 407 (2015) doi:10.1140/epjc/s10052-015-3609-0 [arXiv:1506.05332 [hep-ex]].

912. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector," Phys. Rev. D **92**, no. 7, 072005 (2015) doi:10.1103/PhysRevD.92.072005 [arXiv:1506.05074 [hep-ex]].

913. G. Aad *et al.* [ATLAS Collaboration], "Search for type-III Seesaw heavy leptons in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector," Phys. Rev. D **92**, no. 3, 032001 (2015) doi:10.1103/PhysRevD.92.032001 [arXiv:1506.01839 [hep-ex]].

914. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy lepton resonances decaying to a Z boson and a lepton in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1509**, 108 (2015) doi:10.1007/JHEP09(2015)108 [arXiv:1506.01291 [hep-ex]].

915. G. Aad *et al.* [ATLAS Collaboration], "Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in *pp* Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector," Phys. Rev. Lett. **115**, no. 13, 131801 (2015) doi:10.1103/PhysRevLett.115.131801 [arXiv:1506.01081 [hep-ex]].

916. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1512**, 055 (2015) doi:10.1007/JHEP12(2015)055 [arXiv:1506.00962 [hep-ex]].

917. G. Aad *et al.* [ATLAS Collaboration], "Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeVwith the ATLAS detector," Eur. Phys. J. C **75**, no. 9, 412 (2015) doi:10.1140/epjc/s10052-015-3628-x [arXiv:1506.00285 [hep-ex]].

918. G. Aad *et al.* [ATLAS Collaboration], "Measurement of differential J/ψ production cross sections and forward-backward ratios in p + Pb collisions with the ATLAS detector," Phys. Rev. C **92**, no. 3, 034904 (2015) doi:10.1103/PhysRevC.92.034904 [arXiv:1505.08141 [hep-ex]].

919. G. Aad *et al.* [ATLAS Collaboration], "Search for new light gauge bosons in Higgs boson decays to four-lepton final states in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector at the LHC," Phys. Rev. D **92**, no. 9, 092001 (2015) doi:10.1103/PhysRevD.92.092001 [arXiv:1505.07645 [hep-ex]].

920. G. Aad *et al.* [ATLAS Collaboration], "A search for $t\bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1508**, 148 (2015) doi:10.1007/JHEP08(2015)148 [arXiv:1505.07018 [hep-ex]].

921. G. Aad *et al.* [ATLAS Collaboration], "Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1508**, 105 (2015) doi:10.1007/JHEP08(2015)105 [arXiv:1505.04306 [hep-ex]].

922. G. Aad *et al.* [ATLAS Collaboration], "Search for Higgs bosons decaying to *aa* in the $\mu\mu\tau\tau$ final state in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS experiment," Phys. Rev. D **92**, no. 5, 052002 (2015) doi:10.1103/PhysRevD.92.052002 [arXiv:1505.01609 [hep-ex]].

923. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the H and HZZ*4 Decay Channels at $\sqrt{s}$=8TeV with the ATLAS Detector," Phys. Rev. Lett. **115**, no. 9, 091801 (2015) doi:10.1103/PhysRevLett.115.091801 [arXiv:1504.05833 [hep-ex]].

924. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass diphoton resonances in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **92**, no. 3, 032004 (2015) doi:10.1103/PhysRevD.92.032004 [arXiv:1504.05511 [hep-ex]].

925. G. Aad *et al.* [ATLAS Collaboration], "Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **92**, no. 7, 072004 (2015) doi:10.1103/PhysRevD.92.072004 [arXiv:1504.05162 [hep-ex]].

926. G. Aad *et al.* [ATLAS Collaboration], "Analysis of events with *b*-jets and a pair of leptons of the same charge in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1510**, 150 (2015) doi:10.1007/JHEP10(2015)150 [arXiv:1504.04605 [hep-ex]].

927. G. Aad *et al.* [ATLAS Collaboration], "Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector at the LHC," JHEP **1509**, 050 (2015) doi:10.1007/JHEP09(2015)050 [arXiv:1504.04337 [hep-ex]].

928. G. Aad *et al.* [ATLAS Collaboration], "Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 7, 337 (2015) doi:10.1140/epjc/s10052-015-3551-1 [arXiv:1504.04324 [hep-ex]].

929. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the lepton+jets final state with ATLAS," Phys. Rev. D **91**, no. 11, 112013 (2015) doi:10.1103/PhysRevD.91.112013 [arXiv:1504.04251 [hep-ex]].

930. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s} =$ 8 TeV using the ATLAS detector," Eur. Phys. J. C **75**, 362 (2015) doi:10.1140/epjc/s10052-015-3534-2 [arXiv:1504.04188 [hep-ex]].

931. G. Aad *et al.* [ATLAS Collaboration], "Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **92**, no. 1, 012010 (2015) doi:10.1103/PhysRevD.92.012010 [arXiv:1504.03634 [hep-ex]].

932. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}}$=2.76 TeV with the ATLAS detector," Phys. Rev. C **92**, no. 3, 034903 (2015) doi:10.1103/PhysRevC.92.034903 [arXiv:1504.01289 [hep-ex]].

933. G. Aad *et al.* [ATLAS Collaboration], "Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV Measured with the ATLAS Detector," Phys. Rev. Lett. **114**, no. 22, 221802 (2015) doi:10.1103/PhysRevLett.114.221802 [arXiv:1504.00357 [hep-ex]].

934. G. Aad *et al.* [ATLAS Collaboration], "Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s} = 8$ TeV," JHEP **1507**, 032 (2015) doi:10.1007/JHEP07(2015)032 [arXiv:1503.08988 [hep-ex]].

935. G. Aad *et al.* [ATLAS Collaboration], "Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $\ell\ell/\ell\nu/\nu\nu + b\bar{b}$ final states with the ATLAS detector," Eur. Phys. J. C **75**, no. 6, 263 (2015) doi:10.1140/epjc/s10052-015-3474-x [arXiv:1503.08089 [hep-ex]].

936. G. Aad *et al.* [ATLAS and CMS Collaborations], "Combined Measurement of the Higgs Boson Mass in *pp* Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments," Phys. Rev. Lett. **114**, 191803 (2015) doi:10.1103/PhysRevLett.114.191803 [arXiv:1503.07589 [hep-ex]].

937. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark mass in the $t\bar{t} \to$ lepton + jets and $t\bar{t} \to$ dilepton channels using $\sqrt{s} = 7$ TeV ATLAS data," Eur. Phys. J. C **75**, no. 7, 330 (2015) doi:10.1140/epjc/s10052-015-3544-0 [arXiv:1503.05427 [hep-ex]].

938. G. Aad *et al.* [ATLAS Collaboration], "Search for vector-like B quarks in events with one isolated lepton, missing transverse momentum and jets at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **91**, no. 11, 112011 (2015) doi:10.1103/PhysRevD.91.112011 [arXiv:1503.05425 [hep-ex]].

939. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 7, 349 (2015) doi:10.1140/epjc/s10052-015-3543-1 [arXiv:1503.05066 [hep-ex]].

940. G. Aad *et al.* [ATLAS Collaboration], "Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 5, 209 (2015) Erratum: [Eur. Phys. J. C **75**, 370 (2015)] doi:10.1140/epjc/s10052-015-3593-4, 10.1140/epjc/s10052-015-3425-6 [arXiv:1503.04677 [hep-ex]].

941. G. Aad *et al.* [ATLAS Collaboration], "Search for a Heavy Neutral Particle Decaying to $e\mu$, $e\tau$, or $\mu\tau$ in *pp* Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector," Phys. Rev. Lett. **115**, no. 3, 031801 (2015) doi:10.1103/PhysRevLett.115.031801 [arXiv:1503.04430 [hep-ex]].

942. G. Aad *et al.* [ATLAS Collaboration], "Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H^{\pm} \to W^{\pm}Z$ using *pp* Collisions at $\sqrt{s} = 8$TeV with the ATLAS Experiment," Phys. Rev. Lett. **114**, no. 23, 231801 (2015) doi:10.1103/PhysRevLett.114.231801 [arXiv:1503.04233 [hep-ex]].

943. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the forward-backward asymmetry of electron and muon pair-production in *pp* collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1509**, 049 (2015) doi:10.1007/JHEP09(2015)049 [arXiv:1503.03709 [hep-ex]].

944. G. Aad *et al.* [ATLAS Collaboration], "Determination of spin and parity of the Higgs boson in the $WW^* \to e\nu\mu\nu$ decay channel with the ATLAS detector," Eur. Phys. J. C **75**, no. 5, 231 (2015) doi:10.1140/epjc/s10052-015-3436-3 [arXiv:1503.03643 [hep-ex]].

945. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **75**, no. 7, 318 (2015) Erratum: [Eur. Phys. J. C **75**, no. 10, 463 (2015)] doi:10.1140/epjc/s10052-015-3661-9, 10.1140/epjc/s10052-015-3518-2 [arXiv:1503.03290 [hep-ex]].

946. G. Aad *et al.* [ATLAS Collaboration], "Evidence of W Production in pp Collisions at s=8TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector," Phys. Rev. Lett. **115**, no. 3, 031802 (2015) doi:10.1103/PhysRevLett.115.031802 [arXiv:1503.03243 [hep-ex]].

947. G. Aad *et al.* [ATLAS Collaboration], "Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector," Eur. Phys. J. C **75**, no. 7, 335 (2015) doi:10.1140/epjc/s10052-015-3542-2 [arXiv:1503.01060 [hep-ex]].

948. G. Aad *et al.* [ATLAS Collaboration], "Two-particle BoseEinstein correlations in pp collisions at $\sqrt{\mathbf{s}} = 0.9$ and 7 TeV measured with the ATLAS detector," Eur. Phys. J. C **75**, no. 10, 466 (2015) doi:10.1140/epjc/s10052-015-3644-x [arXiv:1502.07947 [hep-ex]].

949. G. Aad *et al.* [ATLAS Collaboration], "A search for high-mass resonances decaying to $\tau^+\tau^-$ in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1507**, 157 (2015) doi:10.1007/JHEP07(2015)157 [arXiv:1502.07177 [hep-ex]].

950. G. Aad *et al.* [ATLAS Collaboration], "Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector," JHEP **1506**, 100 (2015) doi:10.1007/JHEP06(2015)100 [arXiv:1502.05923 [hep-ex]].

951. G. Aad *et al.* [ATLAS Collaboration], "Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in *pp* collisions at $\sqrt{s} = 8$ TeV," Phys. Rev. D **91**, no. 11, 112016 (2015) Erratum: [Phys. Rev. D **93**, no. 3, 039901 (2016)] doi:10.1103/PhysRevD.93.039901, 10.1103/PhysRevD.91.112016 [arXiv:1502.05686 [hep-ex]].

952. G. Aad *et al.* [ATLAS Collaboration], "Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **744**, 163 (2015) doi:10.1016/j.physletb.2015.03.054 [arXiv:1502.04478 [hep-ex]].

953. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}$ =8 TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 7, 299 (2015) Erratum: [Eur. Phys. J. C **75**, no. 9, 408 (2015)] doi:10.1140/epjc/s10052-015-3517-3, 10.1140/epjc/s10052-015-3639-7 [arXiv:1502.01518 [hep-ex]].

954. G. Aad *et al.* [ATLAS Collaboration], "Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Phys. Rev. D **91**, no. 7, 072007 (2015) doi:10.1103/PhysRevD.91.072007 [arXiv:1502.00586 [hep-ex]].

955. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," JHEP **1505**, 061 (2015) doi:10.1007/JHEP05(2015)061 [arXiv:1501.07383 [hep-ex]].

956. G. Aad *et al.* [ATLAS Collaboration], "Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **75**, no. 5, 208 (2015) doi:10.1140/epjc/s10052-015-3408-7 [arXiv:1501.07110 [hep-ex]].

957. G. Aad *et al.* [ATLAS Collaboration], "Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector," JHEP **1504**, 117 (2015) doi:10.1007/JHEP04(2015)117 [arXiv:1501.04943 [hep-ex]].

958. G. Aad *et al.* [ATLAS Collaboration], "Search for pair-produced long-lived neutral particles decaying in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **743**, 15 (2015) doi:10.1016/j.physletb.2015.02.015 [arXiv:1501.04020 [hep-ex]].

959. G. Aad *et al.* [ATLAS Collaboration], "Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1504**, 116 (2015) doi:10.1007/JHEP04(2015)116 [arXiv:1501.03555 [hep-ex]].

960. G. Aad *et al.* [ATLAS Collaboration], "Search for Higgs and Z Boson Decays to J/ and (nS) with the ATLAS Detector," Phys. Rev. Lett. **114**, no. 12, 121801 (2015) doi:10.1103/PhysRevLett.114.121801 [arXiv:1501.03276 [hep-ex]].

961. G. Aad *et al.* [ATLAS Collaboration], "Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s} = 8$TeV with the ATLAS Detector," Phys. Rev. Lett. **114**, no. 16, 161801 (2015) doi:10.1103/PhysRevLett.114.161801 [arXiv:1501.01325 [hep-ex]].

962. G. Aad *et al.* [ATLAS Collaboration], "Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}$=8 TeV," Eur. Phys. J. C **75**, no. 7, 303 (2015) doi:10.1140/epjc/s10052-015-3500-z [arXiv:1412.7086 [hep-ex]].

963. G. Aad *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons decaying via $H^{\pm} \to \tau^{\pm}\nu$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1503**, 088 (2015) doi:10.1007/JHEP03(2015)088 [arXiv:1412.6663 [hep-ex]].

964. G. Aad *et al.* [ATLAS Collaboration], "Observation and measurements of the production of prompt and non-prompt J/ψ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 5, 229 (2015) doi:10.1140/epjc/s10052-015-3406-9 [arXiv:1412.6428 [hep-ex]].

965. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in pp Collisions at $\sqrt{s} = 8$ TeV Using the ATLAS Detector," Phys. Rev. Lett. **114**, no. 14, 142001 (2015) doi:10.1103/PhysRevLett.114.142001 [arXiv:1412.4742 [hep-ex]].

966. G. Aad *et al.* [ATLAS Collaboration], "Centrality and rapidity dependence of inclusive jet production in $\sqrt{s_{\rm NN}} = 5.02$ TeV proton-lead collisions with the ATLAS detector," Phys. Lett. B **748**, 392 (2015) doi:10.1016/j.physletb.2015.07.023 [arXiv:1412.4092 [hep-ex]].

967. G. Aad *et al.* [ATLAS Collaboration], "Observation and measurement of Higgs boson decays to WW* with the ATLAS detector," Phys. Rev. D **92**, no. 1, 012006 (2015) doi:10.1103/PhysRevD.92.012006 [arXiv:1412.2641 [hep-ex]].

968. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the transverse polarization of Λ and $\bar{\Lambda}$ hyperons produced in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Phys. Rev. D **91**, no. 3, 032004 (2015) doi:10.1103/PhysRevD.91.032004 [arXiv:1412.1692 [hep-ex]].

969. G. Aad *et al.* [ATLAS Collaboration], "Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector," JHEP **1503**, 041 (2015) doi:10.1007/JHEP03(2015)041 [arXiv:1412.0237 [hep-ex]].

970. G. Aad *et al.* [ATLAS Collaboration], "Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV," JHEP **1501**, 068 (2015) doi:10.1007/JHEP01(2015)068 [arXiv:1411.6795 [hep-ex]].

971. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1508**, 138 (2015) doi:10.1007/JHEP08(2015)138 [arXiv:1411.2921 [hep-ex]].

972. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS Detector," Phys. Rev. Lett. **114**, no. 7, 072302 (2015) doi:10.1103/PhysRevLett.114.072302 [arXiv:1411.2357 [hep-ex]].

973. G. Aad *et al.* [ATLAS Collaboration], "Measurement of three-jet production cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector," Eur. Phys. J. C **75**, no. 5, 228 (2015) doi:10.1140/epjc/s10052-015-3363-3 [arXiv:1411.1855 [hep-ex]].

974. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **91**, no. 1, 012008 (2015) Erratum: [Phys. Rev. D **92**, no. 5, 059903 (2015)] doi:10.1103/PhysRevD.92.059903, 10.1103/PhysRevD.91.012008 [arXiv:1411.1559 [hep-ex]].

975. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb^1 of data with the ATLAS detector," JHEP **1502**, 153 (2015) Erratum: [JHEP **1509**, 141 (2015)] doi:10.1007/JHEP02(2015)153, 10.1007/JHEP09(2015)141 [arXiv:1410.8857 [hep-ex]].

976. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $WW+WZ$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{\rm s} = 7$ TeV," JHEP **1501**, 049 (2015) doi:10.1007/JHEP01(2015)049 [arXiv:1410.7238 [hep-ex]].

977. G. Aad *et al.* [ATLAS Collaboration], "Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 2, 79 (2015) doi:10.1140/epjc/s10052-014-3233-4 [arXiv:1410.5404 [hep-ex]].

978. G. Aad *et al.* [ATLAS Collaboration], "Search for the X_b and other hidden-beauty states in the $\pi^+\pi^-\Upsilon(1S)$ channel at ATLAS," Phys. Lett. B **740**, 199 (2015) doi:10.1016/j.physletb.2014.11.055 [arXiv:1410.4409 [hep-ex]].

979. G. Aad *et al.* [ATLAS Collaboration], "Search for $W' \to t\bar{b}$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **743**, 235 (2015) doi:10.1016/j.physletb.2015.02.051 [arXiv:1410.4103 [hep-ex]].

980. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter in events with heavy quarks and missing transverse momentum in *pp* collisions with the ATLAS detector," Eur. Phys. J. C **75**, no. 2, 92 (2015) doi:10.1140/epjc/s10052-015-3306-z [arXiv:1410.4031 [hep-ex]].

981. G. Aad *et al.* [ATLAS Collaboration], "Search for *s*-channel single top-quark production in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **740**, 118 (2015) doi:10.1016/j.physletb.2014.11.042 [arXiv:1410.0647 [hep-ex]].

982. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the W production cross sections in association with jets with the ATLAS detector," Eur. Phys. J. C **75**, no. 2, 82 (2015) doi:10.1140/epjc/s10052-015-3262-7 [arXiv:1409.8639 [hep-ex]].

983. G. Aad *et al.* [ATLAS Collaboration], "Search for the $b\bar{b}$ decay of the Standard Model Higgs boson in associated $(W/Z)H$ production with the ATLAS detector," JHEP **1501**, 069 (2015) doi:10.1007/JHEP01(2015)069 [arXiv:1409.6212 [hep-ex]].

984. G. Aad *et al.* [ATLAS Collaboration], "Search for resonant diboson production in the $\ell\ell\mathrm{q}\bar{\mathrm{q}}$ final state in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, 69 (2015) doi:10.1140/epjc/s10052-015-3261-8 [arXiv:1409.6190 [hep-ex]].

985. G. Aad *et al.* [ATLAS Collaboration], "Search for $H \to \gamma\gamma$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector," Phys. Lett. B **740**, 222 (2015) doi:10.1016/j.physletb.2014.11.049 [arXiv:1409.3122 [hep-ex]].

986. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **75**, no. 4, 158 (2015) doi:10.1140/epjc/s10052-015-3373-1 [arXiv:1409.0832 [hep-ex]].

987. G. Aad *et al.* [ATLAS Collaboration], "Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector," Phys. Rev. D **91**, no. 1, 012006 (2015) doi:10.1103/PhysRevD.91.012006 [arXiv:1408.5191 [hep-ex]].

988. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production and lepton charge asymmetry of W bosons in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = \mathbf{2.76\ TeV}$ with the ATLAS detector," Eur. Phys. J. C **75**, no. 1, 23 (2015) doi:10.1140/epjc/s10052-014-3231-6 [arXiv:1408.4674 [hep-ex]].

989. G. Aad *et al.* [ATLAS Collaboration], "Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **75**, 120 (2015) doi:10.1140/epjc/s10052-015-3325-9 [arXiv:1408.3179 [hep-ex]].

990. G. Aad *et al.* [ATLAS Collaboration], "Search for $W' \to tb \to qqbb$ decays in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, no. 4, 165 (2015) doi:10.1140/epjc/s10052-015-3372-2 [arXiv:1408.0886 [hep-ex]].

991. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in the dijet mass distribution using $p - p$ collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. D **91**, no. 5, 052007 (2015) doi:10.1103/PhysRevD.91.052007 [arXiv:1407.1376 [hep-ex]].

992. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector," JHEP **1501**, 020 (2015) doi:10.1007/JHEP01(2015)020 [arXiv:1407.0891 [hep-ex]].

993. G. Aad *et al.* [ATLAS Collaboration], "Simultaneous measurements of the $t\bar{t}$, W^+W^-, and $Z/\gamma^* \to \tau\tau$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **91**, no. 5, 052005 (2015) doi:10.1103/PhysRevD.91.052005 [arXiv:1407.0573 [hep-ex]].

994. G. Aad *et al.* [ATLAS Collaboration], "Search For Higgs Boson Pair Production in the $\gamma\gamma b\bar{b}$ Final State using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector," Phys. Rev. Lett. **114**, no. 8, 081802 (2015) doi:10.1103/PhysRevLett.114.081802 [arXiv:1406.5053 [hep-ex]].

995. G. Aad *et al.* [ATLAS Collaboration], "Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **75**, 17 (2015) doi:10.1140/epjc/s10052-014-3190-y [arXiv:1406.0076 [hep-ex]].

996. G. Aad *et al.* [ATLAS Collaboration], "Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s}$=7TeV with the ATLAS detector at the LHC," Phys. Rev. D **87**, no. 11, 112003 (2013) Erratum: [Phys. Rev. D **91**, no. 11, 119901 (2015)] doi:10.1103/PhysRevD.87.112003, 10.1103/PhysRevD.91.119901 [arXiv:1302.1283 [hep-ex]].

997. V. M. Abazov *et al.* [D0 Collaboration], "Inclusive Production of the X(4140) State in $p\overline{p}$ Collisions at D0," Phys. Rev. Lett. **115**, no. 23, 232001 (2015) doi:10.1103/PhysRevLett.115.232001 [arXiv:1508.07846 [hep-ex]].

998. V. M. Abazov *et al.* [D0 Collaboration], "Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from $t\bar{t}$ production at the Tevatron," Phys. Rev. D **92**, 052007 (2015) doi:10.1103/PhysRevD.92.052007 [arXiv:1507.05666 [hep-ex]].

999. V. M. Abazov *et al.* [D0 Collaboration], "Search for Violation of CPT and Lorentz invariance in B_s^0 meson oscillations," Phys. Rev. Lett. **115**, no. 16, 161601 (2015) Addendum: [Phys. Rev. Lett. **116**, no. 1, 019901 (2016)] doi:10.1103/PhysRevLett.115.161601, 10.1103/PhysRevLett.116.019901 [arXiv:1506.04123 [hep-ex]].

1000. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Tevatron Combination of Single-Top-Quark Cross Sections and Determination of the Magnitude of the Cabibbo-Kobayashi-Maskawa Matrix Element $\mathbf{V_{tb}}$," Phys. Rev. Lett. **115**, no. 15, 152003 (2015) doi:10.1103/PhysRevLett.115.152003 [arXiv:1503.05027 [hep-ex]].

1001. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the forward-backward asymmetry in ${}^0_b$ and ${}^{-0}_b$ baryon production in $p\bar{p}$ collisions at $\sqrt{s}$=1.96 TeV," Phys. Rev. D **91**, no. 7, 072008 (2015) doi:10.1103/PhysRevD.91.072008 [arXiv:1503.03917 [hep-ex]].

1002. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Tevatron Constraints on Models of the Higgs Boson with Exotic Spin and Parity Using Decays to Bottom-Antibottom Quark Pairs," Phys. Rev. Lett. **114**, no. 15, 151802 (2015) doi:10.1103/PhysRevLett.114.151802 [arXiv:1502.00967 [hep-ex]].

1003. V. M. Abazov *et al.* [D0 Collaboration], "Precision measurement of the top-quark mass in lepton+jets final states," Phys. Rev. D **91**, no. 11, 112003 (2015) doi:10.1103/PhysRevD.91.112003 [arXiv:1501.07912 [hep-ex]].

1004. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of inclusive cross sections $\sigma(p\bar{p} \to Z + 2\ b\text{jets})/\sigma(\text{p}\bar{\text{p}} \to \text{Z} + 2\text{jets})$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **91**, no. 5, 052010 (2015) doi:10.1103/PhysRevD.91.052010 [arXiv:1501.05325 [hep-ex]].

1005. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W + b-jet and W + c-jet differential production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **743**, 6 (2015) doi:10.1016/j.physletb.2015.02.012 [arXiv:1412.5315 [hep-ex]].

1006. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the electron charge asymmetry in $p\bar{p} \to W + X \to e\nu + X$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **91**, no. 3, 032007 (2015) Erratum: [Phys. Rev. D **91**, no. 7, 079901 (2015)] doi:10.1103/PhysRevD.91.032007, 10.1103/PhysRevD.91.079901 [arXiv:1412.2862 [hep-ex]].

1007. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Forward-Backward Asymmetry in the Production of $B^{\pm}$ Mesons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **114**, 051803 (2015) doi:10.1103/PhysRevLett.114.051803 [arXiv:1411.3021 [hep-ex]].

1008. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ϕ^*_η distribution of muon pairs with masses between 30 and 500 GeV in 10.4 fb^{-1} of $p\bar{p}$ collisions," Phys. Rev. D **91**, no. 7, 072002 (2015) doi:10.1103/PhysRevD.91.072002 [arXiv:1410.8052 [hep-ex]].

1009. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the B^0_s lifetime in the flavor-specific decay channel $B^0_s \to D^-_s \mu^+ \nu X$," Phys. Rev. Lett. **114**, no. 6, 062001 (2015) doi:10.1103/PhysRevLett.114.062001 [arXiv:1410.1568 [hep-ex]].

1010. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the effective weak mixing angle in $p\bar{p} \to Z/\gamma^* \to e^+e^-$ events," Phys. Rev. Lett. **115**, no. 4, 041801 (2015) doi:10.1103/PhysRevLett.115.041801 [arXiv:1408.5016 [hep-ex]].

1011. G. Aad *et al.* [ATLAS Collaboration], "Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1411**, 056 (2014) doi:10.1007/JHEP11(2014)056 [arXiv:1409.6064 [hep-ex]].

1012. G. Aad *et al.* [ATLAS Collaboration], "Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector," Phys. Rev. D **90**, no. 11, 112005 (2014) doi:10.1103/PhysRevD.90.112005 [arXiv:1409.5542 [hep-ex]].

1013. G. Aad *et al.* [ATLAS Collaboration], "Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s} =$ 8 TeV with the ATLAS detector," JHEP **1411**, 104 (2014) doi:10.1007/JHEP11(2014)104 [arXiv:1409.5500 [hep-ex]].

1014. G. Aad *et al.* [ATLAS Collaboration], "Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 12, 3195 (2014) doi:10.1140/epjc/s10052-014-3195-6 [arXiv:1409.3433 [hep-ex]].

1015. G. Aad *et al.* [ATLAS Collaboration], "Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}} = 5.02$ TeV proton-lead collisions with the ATLAS detector," Phys. Rev. C **90**, no. 4, 044906 (2014) doi:10.1103/PhysRevC.90.044906 [arXiv:1409.1792 [hep-ex]].

1016. G. Aad *et al.* [ATLAS Collaboration], "Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1411**, 088 (2014) doi:10.1007/JHEP11(2014)088 [arXiv:1409.0746 [hep-ex]].

1017. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector," Phys. Rev. D **90**, no. 11, 112015 (2014) doi:10.1103/PhysRevD.90.112015 [arXiv:1408.7084 [hep-ex]].

1018. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the direct CP-violating parameter A_{CP} in the decay $D^+ \to K^-\pi^+\pi^+$," Phys. Rev. D **90**, no. 11, 111102 (2014) doi:10.1103/PhysRevD.90.111102 [arXiv:1408.6848 [hep-ex]].

1019. G. Aad *et al.* [ATLAS Collaboration], "A measurement of the ratio of the production cross sections for W and Z bosons in association with jets with the ATLAS detector," Eur. Phys. J. C **74**, no. 12, 3168 (2014) doi:10.1140/epjc/s10052-014-3168-9 [arXiv:1408.6510 [hep-ex]].

1020. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Nucl. Phys. B **889**, 486 (2014) doi:10.1016/j.nuclphysb.2014.10.019 [arXiv:1408.5778 [hep-ex]].

1021. G. Aad *et al.* [ATLAS Collaboration], "Search for the lepton flavor violating decay Ze in pp collisions at $\sqrt{s}$TeV with the ATLAS detector," Phys. Rev. D **90**, no. 7, 072010 (2014) doi:10.1103/PhysRevD.90.072010 [arXiv:1408.5774 [hep-ex]].

1022. G. Aad *et al.* [ATLAS Collaboration], "Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 11, 3157 (2014) doi:10.1140/epjc/s10052-014-3157-z [arXiv:1408.4342 [hep-ex]].

1023. G. Aad *et al.* [ATLAS Collaboration], "Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at $\sqrt{s}$=8 TeV with the ATLAS detector," Phys. Lett. B **738**, 234 (2014) doi:10.1016/j.physletb.2014.09.054 [arXiv:1408.3226 [hep-ex]].

1024. G. Aad *et al.* [ATLAS Collaboration], "Search for new resonances in $W\gamma$ and $Z\gamma$ final states in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **738**, 428 (2014) doi:10.1016/j.physletb.2014.10.002 [arXiv:1407.8150 [hep-ex]].

1025. G. Aad *et al.* [ATLAS Collaboration], "Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1409**, 037 (2014) doi:10.1007/JHEP09(2014)037 [arXiv:1407.7494 [hep-ex]].

1026. G. Aad *et al.* [ATLAS Collaboration], "Search for Scalar Diphoton Resonances in the Mass Range $65 - 600$ GeV with the ATLAS Detector in pp Collision Data at $\sqrt{s} = 8\ TeV$," Phys. Rev. Lett. **113**, no. 17, 171801 (2014) doi:10.1103/PhysRevLett.113.171801 [arXiv:1407.6583 [hep-ex]].

1027. V. M. Abazov *et al.* [D0 Collaboration], "Constraints on Spin and Parity of the Higgs Boson $VH \to Vb\bar{b}$ Final States," Phys. Rev. Lett. **113**, 161802 (2014) doi:10.1103/PhysRevLett.113.161802 [arXiv:1407.6369 [hep-ex]].

1028. G. Aad *et al.* [ATLAS Collaboration], "Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Eur. Phys. J. C **74**, no. 11, 3117 (2014) doi:10.1140/epjc/s10052-014-3117-7 [arXiv:1407.5756 [hep-ex]].

1029. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross-section of $\psi(2S) \to J/\psi(\to \mu^+\mu^-)\pi^+\pi^-$ in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS," JHEP **1409**, 079 (2014) doi:10.1007/JHEP09(2014)079 [arXiv:1407.5532 [hep-ex]].

1030. G. Aad *et al.* [ATLAS Collaboration], "Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data," Eur. Phys. J. C **74**, no. 10, 3071 (2014) doi:10.1140/epjc/s10052-014-3071-4 [arXiv:1407.5063 [hep-ex]].

1031. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Electric Charge of the Top Quark in $t\bar{t}$ Events," Phys. Rev. D **90**, no. 5, 051101 (2014) [Phys. Rev. D **90**, no. 7, 079904 (2014)] doi:10.1103/PhysRevD.90.051101, 10.1103/PhysRevD.90.079904 [arXiv:1407.4837 [hep-ex]].

1032. G. Aad *et al.* [ATLAS Collaboration], "Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Phys. Rev. D **90**, no. 11, 112016 (2014) doi:10.1103/PhysRevD.90.112016 [arXiv:1407.4314 [hep-ex]].

1033. G. Aad *et al.* [ATLAS Collaboration], "Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS," JHEP **1409**, 112 (2014) doi:10.1007/JHEP09(2014)112 [arXiv:1407.4222 [hep-ex]].

1034. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC protonproton collision data," Eur. Phys. J. C **74**, no. 11, 3130 (2014) doi:10.1140/epjc/s10052-014-3130-x [arXiv:1407.3935 [hep-ex]].

1035. G. Aad *et al.* [ATLAS Collaboration], "Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector," JHEP **1410**, 141 (2014) doi:10.1007/JHEP10(2014)141 [arXiv:1407.3643 [hep-ex]].

1036. G. Aad *et al.* [ATLAS Collaboration], "Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 12, 3134 (2014) doi:10.1140/epjc/s10052-014-3134-6 [arXiv:1407.2410 [hep-ex]].

1037. G. Aad *et al.* [ATLAS Collaboration], "Flavor tagged time-dependent angular analysis of the $B_s \to J/\psi\phi$ decay and extraction of $\Delta\Gamma$s and the weak phase ϕ_s in ATLAS," Phys. Rev. D **90**, no. 5, 052007 (2014) doi:10.1103/PhysRevD.90.052007 [arXiv:1407.1796 [hep-ex]].

1038. G. Aad *et al.* [ATLAS Collaboration], "Observation of an Excited $B_c^{\pm}$ Meson State with the ATLAS Detector," Phys. Rev. Lett. **113**, no. 21, 212004 (2014) doi:10.1103/PhysRevLett.113.212004 [arXiv:1407.1032 [hep-ex]].

1039. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," New J. Phys. **16**, no. 11, 113013 (2014) doi:10.1088/1367-2630/16/11/113013 [arXiv:1407.0800 [hep-ex]].

1040. G. Aad *et al.* [ATLAS Collaboration], "Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s} =$ 8 TeV with the ATLAS detector," Phys. Rev. D **90**, no. 5, 052008 (2014) doi:10.1103/PhysRevD.90.052008 [arXiv:1407.0608 [hep-ex]].

1041. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb^{-1} of $\sqrt{s} = 8$ TeV proton-proton collision data with the ATLAS detector," JHEP **1409**, 103 (2014) doi:10.1007/JHEP09(2014)103 [arXiv:1407.0603 [hep-ex]].

1042. G. Aad *et al.* [ATLAS Collaboration], "Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $\sqrt{s}$= 8 TeV proton-proton collisions with the ATLAS detector," JHEP **1410**, 24 (2014) doi:10.1007/JHEP10(2014)024 [arXiv:1407.0600 [hep-ex]].

1043. G. Aad *et al.* [ATLAS Collaboration], "Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}$ =8 TeV pp collisions with the ATLAS detector," JHEP **1411**, 118 (2014) doi:10.1007/JHEP11(2014)118 [arXiv:1407.0583 [hep-ex]].

1044. G. Aad *et al.* [ATLAS Collaboration], "Measurements of normalized differential cross sections for $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$TeV using the ATLAS detector," Phys. Rev. D **90**, no. 7, 072004 (2014) doi:10.1103/PhysRevD.90.072004 [arXiv:1407.0371 [hep-ex]].

1045. G. Aad *et al.* [ATLAS Collaboration], "Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1410**, 96 (2014) doi:10.1007/JHEP10(2014)096 [arXiv:1407.0350 [hep-ex]].

1046. G. Aad *et al.* [ATLAS Collaboration], "Comprehensive measurements of t-channel single top-quark production cross sections at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **90**, no. 11, 112006 (2014) doi:10.1103/PhysRevD.90.112006 [arXiv:1406.7844 [hep-ex]].

1047. G. Aad *et al.* [ATLAS Collaboration], "A neural network clustering algorithm for the ATLAS silicon pixel detector," JINST **9**, P09009 (2014) doi:10.1088/1748-0221/9/09/P09009 [arXiv:1406.7690 [hep-ex]].

1048. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson decay to $\mu^+\mu^-$ with the ATLAS detector," Phys. Lett. B **738**, 68 (2014) doi:10.1016/j.physletb.2014.09.008 [arXiv:1406.7663 [hep-ex]].

1049. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b -tagged jets in *pp* collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 10, 3109 (2014) doi:10.1140/epjc/s10052-014-3109-7 [arXiv:1406.5375 [hep-ex]].

1050. G. Aad *et al.* [ATLAS Collaboration], "Search for WZ resonances in the fully leptonic channel using *pp* collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Lett. B **737**, 223 (2014) doi:10.1016/j.physletb.2014.08.039 [arXiv:1406.4456 [hep-ex]].

1051. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Higgs boson mass from the $H \to \gamma\gamma$ and $H \to ZZ^* \to 4\ell$ channels with the ATLAS detector using 25 fb^{-1} of *pp* collision data," Phys. Rev. D **90**, no. 5, 052004 (2014) doi:10.1103/PhysRevD.90.052004 [arXiv:1406.3827 [hep-ex]].

1052. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Z/γ^* boson transverse momentum distribution in *pp* collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1409**, 145 (2014) doi:10.1007/JHEP09(2014)145 [arXiv:1406.3660 [hep-ex]].

1053. G. Aad *et al.* [ATLAS Collaboration], "Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector," Phys. Lett. B **739**, 320 (2014) doi:10.1016/j.physletb.2014.10.065 [arXiv:1406.2979 [hep-ex]].

1054. V. M. Abazov *et al.* [D0 Collaboration], "Observation and studies of double J/ψ production at the Tevatron," Phys. Rev. D **90**, no. 11, 111101 (2014) doi:10.1103/PhysRevD.90.111101 [arXiv:1406.2380 [hep-ex]].

1055. G. Aad *et al.* [ATLAS Collaboration], "Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," JHEP **1409**, 015 (2014) doi:10.1007/JHEP09(2014)015 [arXiv:1406.1122 [hep-ex]].

1056. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the underlying event in jet events from 7 TeV proton-proton collisions with the ATLAS detector," Eur. Phys. J. C **74**, no. 8, 2965 (2014) doi:10.1140/epjc/s10052-014-2965-5 [arXiv:1406.0392 [hep-ex]].

1057. G. Aad *et al.* [ATLAS Collaboration], "Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8$ TeV proton–proton collision data," JHEP **1409**, 176 (2014) doi:10.1007/JHEP09(2014)176 [arXiv:1405.7875 [hep-ex]].

1058. G. Aad *et al.* [ATLAS Collaboration], "Light-quark and gluon jet discrimination in *pp* collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 8, 3023 (2014) doi:10.1140/epjc/s10052-014-3023-z [arXiv:1405.6583 [hep-ex]].

1059. G. Aad *et al.* [ATLAS Collaboration], "Evidence for Electroweak Production of $W^{\pm}W^{\pm}jj$ in *pp* Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector," Phys. Rev. Lett. **113**, no. 14, 141803 (2014) doi:10.1103/PhysRevLett.113.141803 [arXiv:1405.6241 [hep-ex]].

1060. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **90**, no. 5, 052001 (2014) doi:10.1103/PhysRevD.90.052001 [arXiv:1405.5086 [hep-ex]].

1061. G. Aad *et al.* [ATLAS Collaboration], "Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at sqrt(s) = 8 TeV," JHEP **1408**, 103 (2014) doi:10.1007/JHEP08(2014)103 [arXiv:1405.4254 [hep-ex]].

1062. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass dilepton resonances in pp collisions at $\sqrt{s} = 8$TeV with the ATLAS detector," Phys. Rev. D **90**, no. 5, 052005 (2014) doi:10.1103/PhysRevD.90.052005 [arXiv:1405.4123 [hep-ex]].

1063. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the differential $\gamma + 2$ b-jet cross section and the ratio $\sigma(\gamma + 2\ b\text{-jets})/\sigma(\gamma + b\text{-jet})$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **737**, 357 (2014) doi:10.1016/j.physletb.2014.09.007 [arXiv:1405.3964 [hep-ex]].

1064. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with the ATLAS detector," Eur. Phys. J. C **74**, no. 8, 2982 (2014) doi:10.1140/epjc/s10052-014-2982-4 [arXiv:1405.3936 [hep-ex]].

1065. G. Aad *et al.* [ATLAS Collaboration], "Monitoring and data quality assessment of the ATLAS liquid argon calorimeter," JINST **9**, P07024 (2014) doi:10.1088/1748-0221/9/07/P07024 [arXiv:1405.3768 [hep-ex]].

1066. V. M. Abazov *et al.* [D0 Collaboration], "Precision measurement of the top-quark mass in lepton+jets final states," Phys. Rev. Lett. **113**, 032002 (2014) doi:10.1103/PhysRevLett.113.032002 [arXiv:1405.1756 [hep-ex]].

1067. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the forward-backward asymmetry in top quark-antiquark production in ppbar collisions using the lepton+jets channel," Phys. Rev. D **90**, 072011 (2014) doi:10.1103/PhysRevD.90.072011 [arXiv:1405.0421 [hep-ex]].

1068. G. Aad *et al.* [ATLAS Collaboration], "Operation and performance of the ATLAS semiconductor tracker," JINST **9**, P08009 (2014) doi:10.1088/1748-0221/9/08/P08009 [arXiv:1404.7473 [hep-ex]].

1069. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross section of high transverse momentum $Z \to b\bar{b}$ production in proton–proton collisions at $\sqrt{s} = 8TeV$ with the ATLAS Detector," Phys. Lett. B **738**, 25 (2014) doi:10.1016/j.physletb.2014.09.020 [arXiv:1404.7042 [hep-ex]].

1070. G. Aad *et al.* [ATLAS Collaboration], "Measurement of χ_{c1} and χ_{c2} production with $\sqrt{s}$ = 7 TeV *pp* collisions at ATLAS," JHEP **1407**, 154 (2014) doi:10.1007/JHEP07(2014)154 [arXiv:1404.7035 [hep-ex]].

1071. G. Aad *et al.* [ATLAS Collaboration], "Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}$ = 7 TeV in 2010," Eur. Phys. J. C **74**, no. 9, 3034 (2014) doi:10.1140/epjc/s10052-014-3034-9 [arXiv:1404.4562 [hep-ex]].

1072. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry at $\sqrt{s}$=8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector," JHEP **1406**, 035 (2014) doi:10.1007/JHEP06(2014)035 [arXiv:1404.2500 [hep-ex]].

1073. G. Aad *et al.* [ATLAS Collaboration], "Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data," Eur. Phys. J. C **74**, no. 7, 2941 (2014) doi:10.1140/epjc/s10052-014-2941-0 [arXiv:1404.2240 [hep-ex]].

1074. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s}$ = 7 TeV using the ATLAS detector," JHEP **1406**, 112 (2014) doi:10.1007/JHEP06(2014)112 [arXiv:1404.1212 [hep-ex]].

1075. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the parity-violating asymmetry parameter α_b and the helicity amplitudes for the decay $\Lambda_b^0 \to J/\psi + \Lambda^0$ with the ATLAS detector," Phys. Rev. D **89**, no. 9, 092009 (2014) doi:10.1103/PhysRevD.89.092009 [arXiv:1404.1071 [hep-ex]].

1076. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at $\sqrt{s}$=8 TeV with the ATLAS detector," Phys. Rev. D **90**, no. 1, 012004 (2014) doi:10.1103/PhysRevD.90.012004 [arXiv:1404.0051 [hep-ex]].

1077. G. Aad *et al.* [ATLAS Collaboration], "Search for top quark decays $t \to qH$ with $H \to \gamma\gamma$ using the ATLAS detector," JHEP **1406**, 008 (2014) doi:10.1007/JHEP06(2014)008 [arXiv:1403.6293 [hep-ex]].

1078. G. Aad *et al.* [ATLAS Collaboration], "Measurements of Four-Lepton Production at the Z Resonance in pp Collisions at $\sqrt{s}$ =7 and 8 TeV with ATLAS," Phys. Rev. Lett. **112**, no. 23, 231806 (2014) doi:10.1103/PhysRevLett.112.231806 [arXiv:1403.5657 [hep-ex]].

1079. G. Aad *et al.* [ATLAS Collaboration], "Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in *pp* collisions at $\sqrt{s}$ = 8 TeV with the ATLAS detector," JHEP **1405**, 071 (2014) doi:10.1007/JHEP05(2014)071 [arXiv:1403.5294 [hep-ex]].

1080. G. Aad *et al.* [ATLAS Collaboration], "Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in sqrt(s)=8 TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **74**, no. 6, 2883 (2014) doi:10.1140/epjc/s10052-014-2883-6 [arXiv:1403.5222 [hep-ex]].

1081. G. Aad *et al.* [ATLAS Collaboration], "Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s}$ = 8TeV with the ATLAS detector," JHEP **1406**, 124 (2014) doi:10.1007/JHEP06(2014)124 [arXiv:1403.4853 [hep-ex]].

1082. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the forward-backward asymmetry in the distribution of leptons in $t\bar{t}$ events in the lepton+jets channel," Phys. Rev. D **90**, 072001 (2014) doi:10.1103/PhysRevD.90.072001 [arXiv:1403.1294 [hep-ex]].

1083. G. Aad *et al.* [ATLAS Collaboration], "Measurement of event-plane correlations in $\sqrt{s_{NN}} = 2.76$ TeV lead-lead collisions with the ATLAS detector," Phys. Rev. C **90**, no. 2, 024905 (2014) doi:10.1103/PhysRevC.90.024905 [arXiv:1403.0489 [hep-ex]].

1084. G. Aad *et al.* [ATLAS Collaboration], "Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$TeV pp collisions with the ATLAS detector," JHEP **1404**, 169 (2014) doi:10.1007/JHEP04(2014)169 [arXiv:1402.7029 [hep-ex]].

1085. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1405**, 068 (2014) doi:10.1007/JHEP05(2014)068 [arXiv:1402.6263 [hep-ex]].

1086. G. Aad *et al.* [ATLAS Collaboration], "The differential production cross section of the ϕ (1020) meson in $\sqrt{s} = 7$ TeV pp collisions measured with the ATLAS detector," Eur. Phys. J. C **74**, no. 7, 2895 (2014) doi:10.1140/epjc/s10052-014-2895-2 [arXiv:1402.6162 [hep-ex]].

1087. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Observation of s-channel production of single top quarks at the Tevatron," Phys. Rev. Lett. **112**, 231803 (2014) doi:10.1103/PhysRevLett.112.231803 [arXiv:1402.5126 [hep-ex]].

1088. G. Aad *et al.* [ATLAS Collaboration], "Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS," Phys. Rev. Lett. **112**, 201802 (2014) doi:10.1103/PhysRevLett.112.201802 [arXiv:1402.3244 [hep-ex]].

1089. G. Aad *et al.* [ATLAS Collaboration], "Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}$=7 and 8 TeV with the ATLAS detector," Phys. Lett. B **732**, 8 (2014) doi:10.1016/j.physletb.2014.03.015 [arXiv:1402.3051 [hep-ex]].

1090. V. M. Abazov *et al.* [D0 Collaboration], "Double parton interactions in $\gamma + 3$ jet and $\gamma + b/cjet + 2$ jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **89**, no. 7, 072006 (2014) doi:10.1103/PhysRevD.89.072006 [arXiv:1402.1550 [hep-ex]].

1091. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector," JHEP **1404**, 031 (2014) doi:10.1007/JHEP04(2014)031 [arXiv:1401.7610 [hep-ex]].

1092. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of differential $t\bar{t}$ production cross sections in $p\bar{p}$ collisions," Phys. Rev. D **90**, no. 9, 092006 (2014) doi:10.1103/PhysRevD.90.092006 [arXiv:1401.5785 [hep-ex]].

1093. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section of prompt J/ψ mesons in association with a $W^{\pm}$ boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1404**, 172 (2014) doi:10.1007/JHEP04(2014)172 [arXiv:1401.2831 [hep-ex]].

1094. V. M. Abazov *et al.* [D0 Collaboration], "Electron and Photon Identification in the D0 Experiment," Nucl. Instrum. Meth. A **750**, 78 (2014) doi:10.1016/j.nima.2014.03.013 [arXiv:1401.0029 [hep-ex]].

1095. V. M. Abazov *et al.* [D0 Collaboration], "Improved b quark jet identification at the D0 experiment," Nucl. Instrum. Meth. A **763**, 290 (2014) doi:10.1016/j.nima.2014.04.087 [arXiv:1312.7623 [hep-ex]].

1096. V. M. Abazov *et al.* [D0 Collaboration], "Jet energy scale determination in the D0 experiment," Nucl. Instrum. Meth. A **763**, 442 (2014) doi:10.1016/j.nima.2014.05.044 [arXiv:1312.6873 [hep-ex]].

1097. G. Aad *et al.* [ATLAS Collaboration], "Measurement of dijet cross sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector," JHEP **1405**, 059 (2014) doi:10.1007/JHEP05(2014)059 [arXiv:1312.3524 [hep-ex]].

1098. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W Boson Production Charge Asymmetry in $p\bar{p} \to W+X \to e\nu+X$ Events at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **112**, no. 15, 151803 (2014) [Phys. Rev. Lett. **114**, no. 4, 049901 (2015)] doi:10.1103/PhysRevLett.114.049901, 10.1103/PhysRevLett.112.151803 [arXiv:1312.2895 [hep-ex]].

1099. G. Aad *et al.* [ATLAS Collaboration], "Search for a multi-Higgs-boson cascade in $W^+Wb\bar{b}$ events with the ATLAS detector in pp collisions at $\sqrt{s} = 8$TeV," Phys. Rev. D **89**, no. 3, 032002 (2014) doi:10.1103/PhysRevD.89.032002 [arXiv:1312.1956 [hep-ex]].

1100. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the direct CP-violating charge asymmetry in $D_s^{\pm} \to \phi\pi^{\pm}$ decays," Phys. Rev. Lett. **112**, no. 11, 111804 (2014) doi:10.1103/PhysRevLett.112.111804 [arXiv:1312.0741 [hep-ex]].

1101. G. Aad *et al.* [ATLAS Collaboration], "Standalone vertex finding in the ATLAS muon spectrometer," JINST **9**, P02001 (2014) doi:10.1088/1748-0221/9/02/P02001 [arXiv:1311.7070 [physics.ins-det]].

1102. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," JHEP **1402**, 107 (2014) doi:10.1007/JHEP02(2014)107 [arXiv:1311.6724 [hep-ex]].

1103. G. Aad *et al.* [ATLAS Collaboration], "Search for Quantum Black Hole Production in High-Invariant-Mass Lepton+Jet Final States Using pp Collisions at $\sqrt{s} = 8$TeV and the ATLAS Detector," Phys. Rev. Lett. **112**, no. 9, 091804 (2014) doi:10.1103/PhysRevLett.112.091804 [arXiv:1311.2006 [hep-ex]].

1104. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s} = 7$TeV with the ATLAS detector using 4.6fb^1," Phys. Rev. D **89**, no. 5, 052004 (2014) doi:10.1103/PhysRevD.89.052004 [arXiv:1311.1440 [hep-ex]].

1105. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W boson mass with the D0 detector," Phys. Rev. D **89**, no. 1, 012005 (2014) doi:10.1103/PhysRevD.89.012005 [arXiv:1310.8628 [hep-ex]].

1106. G. Aad *et al.* [ATLAS Collaboration], "Search for long-lived stopped R-hadrons decaying out-of-time with pp collisions using the ATLAS detector," Phys. Rev. D **88**, no. 11, 112003 (2013) doi:10.1103/PhysRevD.88.112003 [arXiv:1310.6584 [hep-ex]].

1107. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{(s)} = 7$ TeV using the ATLAS detector," Phys. Lett. B **728**, 363 (2014) doi:10.1016/j.physletb.2013.12.010 [arXiv:1310.6527 [hep-ex]].

1108. G. Aad *et al.* [ATLAS Collaboration], "Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at $\sqrt{(s)}$=8TeV with the ATLAS detector," Phys. Rev. D **88**, no. 11, 112006 (2013) doi:10.1103/PhysRevD.88.112006 [arXiv:1310.3675 [hep-ex]].

1109. V. M. Abazov *et al.* [D0 Collaboration], "Study of CP -violating charge asymmetries of single muons and like-sign dimuons in pp collisions," Phys. Rev. D **89**, no. 1, 012002 (2014) doi:10.1103/PhysRevD.89.012002 [arXiv:1310.0447 [hep-ex]].

1110. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Combination of measurements of the top-quark pair production cross section from the Tevatron Collider," Phys. Rev. D **89**, no. 7, 072001 (2014) doi:10.1103/PhysRevD.89.072001 [arXiv:1309.7570 [hep-ex]].

1111. V. M. Abazov *et al.* [D0 Collaboration], "Search for the X(4140) state in B+J/K+ decays with the D0 detector," Phys. Rev. D **89**, no. 1, 012004 (2014) doi:10.1103/PhysRevD.89.012004 [arXiv:1309.6580 [hep-ex]].

1112. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector," Phys. Rev. Lett. **112**, no. 4, 041802 (2014) doi:10.1103/PhysRevLett.112.041802 [arXiv:1309.4017 [hep-ex]].

1113. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in photon+jet events collected in proton–proton collisions at sqrt(s) = 8 TeV with the ATLAS detector," Phys. Lett. B **728**, 562 (2014) doi:10.1016/j.physletb.2013.12.029 [arXiv:1309.3230 [hep-ex]].

1114. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the muon charge asymmetry in $p\bar{p} \to$ W+X $\to \mu\nu +$ X events at $\sqrt{s}$=1.96TeV," Phys. Rev. D **88**, 091102 (2013) doi:10.1103/PhysRevD.88.091102 [arXiv:1309.2591 [hep-ex]].

1115. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the asymmetry in angular distributions of leptons produced in dilepton $t\overline{t}$ final states in $p\overline{p}$ collisions at $\sqrt{s}$=1.96TeV," Phys. Rev. D **88**, no. 11, 112002 (2013) doi:10.1103/PhysRevD.88.112002 [arXiv:1308.6690 [hep-ex]].

1116. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of associated production of Z bosons with charm quark jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **112**, no. 4, 042001 (2014) doi:10.1103/PhysRevLett.112.042001 [arXiv:1308.4384 [hep-ex]].

1117. G. Aad *et al.* [ATLAS Collaboration], "Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector," Phys. Rev. D **88**, no. 7, 072001 (2013) doi:10.1103/PhysRevD.88.072001 [arXiv:1308.4075 [hep-ex]].

1118. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the differential cross section of photon plus jet production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **88**, 072008 (2013) doi:10.1103/PhysRevD.88.072008 [arXiv:1308.2708 [hep-ex]].

1119. G. Aad *et al.* [ATLAS Collaboration], "Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector," JHEP **1310**, 189 (2013) doi:10.1007/JHEP10(2013)189 [arXiv:1308.2631 [hep-ex]].

1120. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s}$=8 TeV proton-proton collisions using the ATLAS experiment," JHEP **1310**, 130 (2013) [JHEP **1401**, 109 (2014)] doi:10.1007/JHEP10(2013)130, 10.1007/JHEP01(2014)109 [arXiv:1308.1841 [hep-ex]].

1121. G. Aad *et al.* [ATLAS Collaboration], "Search for excited electrons and muons in $\sqrt{s}$=8 TeV proton-proton collisions with the ATLAS detector," New J. Phys. **15**, 093011 (2013) doi:10.1088/1367-2630/15/9/093011 [arXiv:1308.1364 [hep-ex]].

1122. T. A. Aaltonen *et al.* [CDF and D0 Collaborations], "Combination of CDF and D0 W-Boson Mass Measurements," Phys. Rev. D **88**, no. 5, 052018 (2013) doi:10.1103/PhysRevD.88.052018 [arXiv:1307.7627 [hep-ex]].

1123. G. Aad *et al.* [ATLAS Collaboration], "Dynamics of isolated-photon plus jet production in pp collisions at $\sqrt{(}s) = 7$ TeV with the ATLAS detector," Nucl. Phys. B **875**, 483 (2013) doi:10.1016/j.nuclphysb.2013.07.025 [arXiv:1307.6795 [hep-ex]].

1124. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s} = 7$TeV Using the ATLAS Detector," Phys. Rev. Lett. **111**, no. 23, 232002 (2013) doi:10.1103/PhysRevLett.111.232002 [arXiv:1307.6511 [hep-ex]].

1125. G. Aad *et al.* [ATLAS Collaboration], "Measurement of jet shapes in top-quark pair events at $\sqrt{s} = 7$ TeV using the ATLAS detector," Eur. Phys. J. C **73**, no. 12, 2676 (2013) doi:10.1140/epjc/s10052-013-2676-3 [arXiv:1307.5749 [hep-ex]].

1126. V. M. Abazov *et al.* [D0 Collaboration], "Muon reconstruction and identification with the Run II D0 detector," Nucl. Instrum. Meth. A **737**, 281 (2014) doi:10.1016/j.nima.2013.11.050 [arXiv:1307.5202 [hep-ex]].

1127. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark charge in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1311**, 031 (2013) doi:10.1007/JHEP11(2013)031 [arXiv:1307.4568 [hep-ex]].

1128. G. Aad *et al.* [ATLAS Collaboration], "Evidence for the spin-0 nature of the Higgs boson using ATLAS data," Phys. Lett. B **726**, 120 (2013) doi:10.1016/j.physletb.2013.08.026 [arXiv:1307.1432 [hep-ex]].

1129. G. Aad *et al.* [ATLAS Collaboration], "Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC," Phys. Lett. B **726**, 88 (2013) [Phys. Lett. B **734**, 406 (2014)] doi:10.1016/j.physletb.2014.05.011, 10.1016/j.physletb.2013.08.010 [arXiv:1307.1427 [hep-ex]].

1130. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for s-channel single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **726**, 656 (2013) doi:10.1016/j.physletb.2013.09.048 [arXiv:1307.0731 [hep-ex]].

1131. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the differential cross-section of B^+ meson production in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS," JHEP **1310**, 042 (2013) doi:10.1007/JHEP10(2013)042 [arXiv:1307.0126 [hep-ex]].

1132. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector," Phys. Rev. Lett. **111**, no. 15, 152301 (2013) doi:10.1103/PhysRevLett.111.152301 [arXiv:1306.6469 [hep-ex]].

1133. G. Aad *et al.* [ATLAS Collaboration], "Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," JHEP **1309**, 076 (2013) doi:10.1007/JHEP09(2013)076 [arXiv:1306.4945 [hep-ex]].

1134. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the high-mass Drell–Yan differential cross-section in pp collisions at sqrt(s)=7 TeV with the ATLAS detector," Phys. Lett. B **725**, 223 (2013) doi:10.1016/j.physletb.2013.07.049 [arXiv:1305.4192 [hep-ex]].

1135. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at = 2.76 TeV with the ATLAS detector at the LHC," JHEP **1311**, 183 (2013) doi:10.1007/JHEP11(2013)183 [arXiv:1305.2942 [hep-ex]].

1136. G. Aad *et al.* [ATLAS Collaboration], "Search for $t\bar{t}$ resonances in the lepton plus jets final state with ATLAS using 4.7 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV," Phys. Rev. D **88**, no. 1, 012004 (2013) doi:10.1103/PhysRevD.88.012004 [arXiv:1305.2756 [hep-ex]].

1137. G. Aad *et al.* [ATLAS Collaboration], "Triggers for displaced decays of long-lived neutral particles in the ATLAS detector," JINST **8**, P07015 (2013) doi:10.1088/1748-0221/8/07/P07015 [arXiv:1305.2284 [hep-ex]].

1138. V. M. Abazov *et al.* [D0 Collaboration], "Search for anomalous quartic $WW\gamma\gamma$ couplings in dielectron and missing energy final states in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **88**, 012005 (2013) doi:10.1103/PhysRevD.88.012005 [arXiv:1305.1258 [hep-ex]].

1139. G. Aad *et al.* [ATLAS Collaboration], "Search for resonant diboson production in the WW/WZjj decay channels with the ATLAS detector at $\sqrt{s} = 7$TeV," Phys. Rev. D **87**, no. 11, 112006 (2013) doi:10.1103/PhysRevD.87.112006 [arXiv:1305.0125 [hep-ex]].

1140. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1307**, 032 (2013) doi:10.1007/JHEP07(2013)032 [arXiv:1304.7098 [hep-ex]].

1141. G. Aad *et al.* [ATLAS Collaboration], "Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s} = 7$TeV using the ATLAS detector," Phys. Rev. D **89**, no. 7, 072012 (2014) doi:10.1103/PhysRevD.89.072012 [arXiv:1304.6386 [hep-ex]].

1142. G. Aad *et al.* [ATLAS Collaboration], "Search for nonpointing photons in the diphoton and E_T^{miss} final state in $\sqrt{s}$=7TeV proton-proton collisions using the ATLAS detector," Phys. Rev. D **88**, no. 1, 012001 (2013) doi:10.1103/PhysRevD.88.012001 [arXiv:1304.6310 [hep-ex]].

1143. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ZZ production cross section and search for the standard model Higgs boson in the four lepton final state in ppbar collisions," Phys. Rev. D **88**, no. 3, 032008 (2013) doi:10.1103/PhysRevD.88.032008 [arXiv:1304.5422 [hep-ex]].

1144. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive jet cross section in pp collisions at sqrt(s)=2.76 TeV and comparison to the inclusive jet cross section at sqrt(s)=7 TeV using the ATLAS detector," Eur. Phys. J. C **73**, no. 8, 2509 (2013) doi:10.1140/epjc/s10052-013-2509-4 [arXiv:1304.4739 [hep-ex]].

1145. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of direct CP violation parameters in $B^{\pm} \to J/\psi K^{\pm}$ and $B^{\pm} \to J/\psi \pi^{\pm}$ decays with 10.4 fb^{-1} of Tevatron data," Phys. Rev. Lett. **110**, no. 24, 241801 (2013) doi:10.1103/PhysRevLett.110.241801 [arXiv:1304.1655 [hep-ex]].

1146. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Higgs Boson Studies at the Tevatron," Phys. Rev. D **88**, no. 5, 052014 (2013) doi:10.1103/PhysRevD.88.052014 [arXiv:1303.6346 [hep-ex]].

1147. V. M. Abazov *et al.* [D0 Collaboration], "Search for $ZH \to \ell^+\ell^- b\bar{b}$ production in 9.7 fb^{-1} of $p\bar{p}$ collisions with the D0 detector," Phys. Rev. D **88**, no. 5, 052010 (2013) doi:10.1103/PhysRevD.88.052010 [arXiv:1303.3276 [hep-ex]].

1148. G. Aad *et al.* [ATLAS Collaboration], "A particle consistent with the Higgs Boson observed with the ATLAS Detector at the Large Hadron Collider," Science **338**, 1576 (2012). doi:10.1126/science.1232005

1149. G. Aad *et al.* [ATLAS Collaboration], "Measurement with the ATLAS detector of multi-particle azimuthal correlations in p+Pb collisions at $\sqrt{(}s_{\rm NN}) = 5.02$ TeV," Phys. Lett. B **725**, 60 (2013) doi:10.1016/j.physletb.2013.06.057 [arXiv:1303.2084 [hep-ex]].

1150. V. M. Abazov *et al.* [D0 Collaboration], "Combined search for the Higgs boson with the D0 experiment," Phys. Rev. D **88**, no. 5, 052011 (2013) doi:10.1103/PhysRevD.88.052011 [arXiv:1303.0823 [hep-ex]].

1151. G. Aad *et al.* [ATLAS Collaboration], "Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1306**, 033 (2013) doi:10.1007/JHEP06(2013)033 [arXiv:1303.0526 [hep-ex]].

1152. G. Aad *et al.* [ATLAS Collaboration], "Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run," JINST **8**, P07004 (2013) doi:10.1088/1748-0221/8/07/P07004 [arXiv:1303.0223 [hep-ex]].

1153. V. M. Abazov *et al.* [D0 Collaboration], "Studies of W boson plus jets production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **88**, no. 9, 092001 (2013) doi:10.1103/PhysRevD.88.092001 [arXiv:1302.6508 [hep-ex]].

1154. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs boson production in trilepton and like-charge electron-muon final states with the D0 detector," Phys. Rev. D **88**, no. 5, 052009 (2013) doi:10.1103/PhysRevD.88.052009 [arXiv:1302.5723 [hep-ex]].

1155. G. Aad *et al.* [ATLAS Collaboration], "Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s}$=7 TeV with the ATLAS detector," New J. Phys. **15**, 043009 (2013) doi:10.1088/1367-2630/15/4/043009 [arXiv:1302.4403 [hep-ex]].

1156. G. Aad *et al.* [ATLAS Collaboration], "Improved luminosity determination in pp collisions at sqrt(s) = 7 TeV using the ATLAS detector at the LHC," Eur. Phys. J. C **73**, no. 8, 2518 (2013) doi:10.1140/epjc/s10052-013-2518-3 [arXiv:1302.4393 [hep-ex]].

1157. G. Aad *et al.* [ATLAS Collaboration], "Search for a light charged Higgs boson in the decay channel $H^+ \to c\bar{s}$ in $t\bar{t}$ events using pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **73**, no. 6, 2465 (2013) doi:10.1140/epjc/s10052-013-2465-z [arXiv:1302.3694 [hep-ex]].

1158. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1306**, 084 (2013) doi:10.1007/JHEP06(2013)084 [arXiv:1302.2929 [hep-ex]].

1159. G. Aad *et al.* [ATLAS Collaboration], "Measurement of kT splitting scales in W-¿lv events at sqrt(s)=7 TeV with the ATLAS detector," Eur. Phys. J. C **73**, no. 5, 2432 (2013) doi:10.1140/epjc/s10052-013-2432-8 [arXiv:1302.1415 [hep-ex]].

1160. G. Aad *et al.* [ATLAS Collaboration], "Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s}$=7TeV with the ATLAS detector at the LHC," Phys. Rev. D **87**, no. 11, 112003 (2013) [Phys. Rev. D **91**, no. 11, 119901 (2015)] doi:10.1103/PhysRevD.87.112003, 10.1103/PhysRevD.91.119901 [arXiv:1302.1283 [hep-ex]].

1161. G. Aad *et al.* [ATLAS Collaboration], "Measurement of hard double-parton interactions in $W(\to l\nu)$+ 2 jet events at $\sqrt{s}$=7 TeV with the ATLAS detector," New J. Phys. **15**, 033038 (2013) doi:10.1088/1367-2630/15/3/033038 [arXiv:1301.6872 [hep-ex]].

1162. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in $\ell\nu$ + jets final states in 9.7 fb^{-1} of $p\bar{p}$ collisions with the D0 detector," Phys. Rev. D **88**, no. 5, 052008 (2013) doi:10.1103/PhysRevD.88.052008 [arXiv:1301.6122 [hep-ex]].

1163. V. M. Abazov *et al.* [D0 Collaboration], "Search for a Higgs boson in diphoton final states with the D0 detector in 9.6 fb-1 of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **88**, no. 5, 052007 (2013) doi:10.1103/PhysRevD.88.052007 [arXiv:1301.5358 [hep-ex]].

1164. G. Aad *et al.* [ATLAS Collaboration], "Search for long-lived, multi-charged particles in pp collisions at $\sqrt{s}$=7 TeV using the ATLAS detector," Phys. Lett. B **722**, 305 (2013) doi:10.1016/j.physletb.2013.04.036 [arXiv:1301.5272 [hep-ex]].

1165. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the differential cross sections for isolated direct photon pair production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **725**, 6 (2013) doi:10.1016/j.physletb.2013.06.036 [arXiv:1301.4536 [hep-ex]].

1166. V. M. Abazov *et al.* [D0 Collaboration], "Search for the rare decay $B_s \to \mu\mu$," Phys. Rev. D **87**, no. 7, 072006 (2013) doi:10.1103/PhysRevD.87.072006 [arXiv:1301.4507 [hep-ex]].

1167. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of differential cross sections $\sigma(p\bar{p} \to Z + bjet)/\sigma(p\bar{p} \to Z + jet)$ in $p\bar{p}$ collisions at $\sqrt(s) = 1.96$ TeV," Phys. Rev. D **87**, no. 9, 092010 (2013) doi:10.1103/PhysRevD.87.092010 [arXiv:1301.2233 [hep-ex]].

1168. G. Aad *et al.* [ATLAS Collaboration], "Search for single b^*-quark production with the ATLAS detector at $\sqrt{s} = 7$ TeV," Phys. Lett. B **721**, 171 (2013) doi:10.1016/j.physletb.2013.03.016 [arXiv:1301.1583 [hep-ex]].

1169. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs boson production in oppositely charged dilepton and missing energy final states in 9.7 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **88**, no. 5, 052006 (2013) doi:10.1103/PhysRevD.88.052006 [arXiv:1301.1243 [hep-ex]].

1170. G. Aad *et al.* [ATLAS Collaboration], "Multi-channel search for squarks and gluinos in $\sqrt{s} =$ 7 TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **73**, no. 3, 2362 (2013) doi:10.1140/epjc/s10052-013-2362-5 [arXiv:1212.6149 [hep-ex]].

1171. G. Aad *et al.* [ATLAS Collaboration], "A search for prompt lepton-jets in pp collisions at $\sqrt{s} =$ 7 TeV with the ATLAS detector," Phys. Lett. B **719**, 299 (2013) doi:10.1016/j.physletb.2013.01.034 [arXiv:1212.5409].

1172. G. Aad *et al.* [ATLAS Collaboration], "Observation of Associated Near-Side and Away-Side Long-Range Correlations in $\sqrt{s_{NN}}$=5.02TeV Proton-Lead Collisions with the ATLAS Detector," Phys. Rev. Lett. **110**, no. 18, 182302 (2013) doi:10.1103/PhysRevLett.110.182302 [arXiv:1212.5198 [hep-ex]].

1173. G. Aad *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons through the violation of lepton universality in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS experiment," JHEP **1303**, 076 (2013) doi:10.1007/JHEP03(2013)076 [arXiv:1212.3572 [hep-ex]].

1174. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the combined rapidity and p_T dependence of dijet azimuthal decorrelations in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **721**, 212 (2013) doi:10.1016/j.physletb.2013.03.029 [arXiv:1212.1842 [hep-ex]].

1175. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy narrow resonance decaying to $e\mu$, $e\tau$, or $\mu\tau$ with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC," Phys. Lett. B **723**, 15 (2013) doi:10.1016/j.physletb.2013.04.035 [arXiv:1212.1272].

1176. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Upsilon production in 7 TeV pp collisions at ATLAS," Phys. Rev. D **87**, no. 5, 052004 (2013) doi:10.1103/PhysRevD.87.052004 [arXiv:1211.7255 [hep-ex]].

1177. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the ttbar production cross section in the tau+jets channel using the ATLAS detector," Eur. Phys. J. C **73**, no. 3, 2328 (2013) doi:10.1140/epjc/s10052-013-2328-7 [arXiv:1211.7205 [hep-ex]].

1178. V. M. Abazov *et al.* [D0 Collaboration], "Search for the Higgs boson in lepton, tau and jets final states," Phys. Rev. D **88**, no. 5, 052005 (2013) doi:10.1103/PhysRevD.88.052005 [arXiv:1211.6993 [hep-ex]].

1179. G. Aad *et al.* [ATLAS Collaboration], "Search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1302**, 095 (2013) doi:10.1007/JHEP02(2013)095 [arXiv:1211.6956 [hep-ex]].

1180. G. Aad *et al.* [ATLAS Collaboration], "Measurement of angular correlations in Drell-Yan lepton pairs to probe Z/gamma* boson transverse momentum at sqrt(s)=7 TeV with the ATLAS detector," Phys. Lett. B **720**, 32 (2013) doi:10.1016/j.physletb.2013.01.054 [arXiv:1211.6899 [hep-ex]].

1181. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in events with three charged leptons at $/sqrts = 7$ TeV with the ATLAS detector," Phys. Rev. D **87**, no. 5, 052002 (2013) doi:10.1103/PhysRevD.87.052002 [arXiv:1211.6312 [hep-ex]].

1182. G. Aad *et al.* [ATLAS Collaboration], "Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and $ZZ\gamma$ couplings with the ATLAS detector," JHEP **1303**, 128 (2013) doi:10.1007/JHEP03(2013)128 [arXiv:1211.6096 [hep-ex]].

1183. V. M. Abazov *et al.* [D0 Collaboration], "Search for charged massive long-lived particles at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **87**, no. 5, 052011 (2013) doi:10.1103/PhysRevD.87.052011 [arXiv:1211.2466 [hep-ex]].

1184. G. Aad *et al.* [ATLAS Collaboration], "Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV," JHEP **1301**, 116 (2013) doi:10.1007/JHEP01(2013)116 [arXiv:1211.2202 [hep-ex]].

1185. G. Aad *et al.* [ATLAS Collaboration], "Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1301**, 086 (2013) doi:10.1007/JHEP01(2013)086 [arXiv:1211.1913 [hep-ex]].

1186. G. Aad *et al.* [ATLAS Collaboration], "Searches for heavy long-lived sleptons and R-Hadrons with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Lett. B **720**, 277 (2013) doi:10.1016/j.physletb.2013.02.015 [arXiv:1211.1597 [hep-ex]].

1187. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector," Phys. Lett. B **719**, 261 (2013) doi:10.1016/j.physletb.2013.01.041 [arXiv:1211.1167 [hep-ex]].

1188. G. Aad *et al.* [ATLAS Collaboration], "Search for contact interactions and large extra dimensions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **87**, no. 1, 015010 (2013) doi:10.1103/PhysRevD.87.015010 [arXiv:1211.1150 [hep-ex]].

1189. G. Aad *et al.* [ATLAS Collaboration], "Search for Extra Dimensions in diphoton events using proton-proton collisions recorded at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC," New J. Phys. **15**, 043007 (2013) doi:10.1088/1367-2630/15/4/043007 [arXiv:1210.8389 [hep-ex]].

1190. G. Aad *et al.* [ATLAS Collaboration], "Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **719**, 280 (2013) doi:10.1016/j.physletb.2013.01.042 [arXiv:1210.7451 [hep-ex]].

1191. G. Aad *et al.* [ATLAS Collaboration], "A search for high-mass resonances decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **719**, 242 (2013) doi:10.1016/j.physletb.2013.01.040 [arXiv:1210.6604 [hep-ex]].

1192. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Z boson Production in Pb+Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector," Phys. Rev. Lett. **110**, no. 2, 022301 (2013) doi:10.1103/PhysRevLett.110.022301 [arXiv:1210.6486 [hep-ex]].

1193. G. Aad *et al.* [ATLAS Collaboration], "Jet energy resolution in proton-proton collisions at $\sqrt{s} = 7$ TeV recorded in 2010 with the ATLAS detector," Eur. Phys. J. C **73**, no. 3, 2306 (2013) doi:10.1140/epjc/s10052-013-2306-0 [arXiv:1210.6210 [hep-ex]].

1194. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of heavy top-like quarks decaying to a high-pT W boson and a b quark in the lepton plus jets final state at $\sqrt{s}$=7 TeV with the ATLAS detector," Phys. Lett. B **718**, 1284 (2013) doi:10.1016/j.physletb.2012.11.071 [arXiv:1210.5468 [hep-ex]].

1195. G. Aad *et al.* [ATLAS Collaboration], "Search for doubly-charged Higgs bosons in like-sign dilepton final states at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **72**, 2244 (2012) doi:10.1140/epjc/s10052-012-2244-2 [arXiv:1210.5070 [hep-ex]].

1196. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the differential photon + c-jet cross section and the ratio of differential photon+ c and photon+ b cross sections in proton-antiproton collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **719**, 354 (2013) doi:10.1016/j.physletb.2013.01.033 [arXiv:1210.5033 [hep-ex]].

1197. G. Aad *et al.* [ATLAS Collaboration], "Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **73**, no. 1, 2263 (2013) doi:10.1140/epjc/s10052-012-2263-z [arXiv:1210.4826 [hep-ex]].

1198. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC," JHEP **1212**, 086 (2012) doi:10.1007/JHEP12(2012)086 [arXiv:1210.4813 [hep-ex]].

1199. G. Aad *et al.* [ATLAS Collaboration], "Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1212**, 007 (2012) doi:10.1007/JHEP12(2012)007 [arXiv:1210.4538 [hep-ex]].

1200. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector," JHEP **1304**, 075 (2013) doi:10.1007/JHEP04(2013)075 [arXiv:1210.4491 [hep-ex]].

1201. G. Aad *et al.* [ATLAS Collaboration], "Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," JHEP **1212**, 124 (2012) doi:10.1007/JHEP12(2012)124 [arXiv:1210.4457 [hep-ex]].

1202. G. Aad *et al.* [ATLAS Collaboration], "Measurement of W^+W^- production in pp collisions at $\sqrt{s}$=7TeV with the ATLAS detector and limits on anomalous WWZ and WW couplings," Phys. Rev. D **87**, no. 11, 112001 (2013) [Phys. Rev. D **88**, no. 7, 079906 (2013)] doi:10.1103/PhysRevD.87.112001, 10.1103/PhysRevD.88.079906 [arXiv:1210.2979 [hep-ex]].

1203. G. Aad *et al.* [ATLAS Collaboration], "Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1301**, 131 (2013) doi:10.1007/JHEP01(2013)131 [arXiv:1210.2852 [hep-ex]].

1204. G. Aad *et al.* [ATLAS Collaboration], "ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV," JHEP **1301**, 029 (2013) doi:10.1007/JHEP01(2013)029 [arXiv:1210.1718 [hep-ex]].

1205. G. Aad *et al.* [ATLAS Collaboration], "Search for Supersymmetry in Events with Large Missing Transverse Momentum, Jets, and at Least One Tau Lepton in 7 TeV Proton-Proton Collision Data with the ATLAS Detector," Eur. Phys. J. C **72**, 2215 (2012) doi:10.1140/epjc/s10052-012-2215-7 [arXiv:1210.1314 [hep-ex]].

1206. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $p\bar{p} \to W+b+X$ production cross section at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **718**, 1314 (2013) doi:10.1016/j.physletb.2012.12.044 [arXiv:1210.0627 [hep-ex]].

1207. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the flavour composition of dijet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **73**, no. 2, 2301 (2013) doi:10.1140/epjc/s10052-013-2301-5 [arXiv:1210.0441 [hep-ex]].

1208. G. Aad *et al.* [ATLAS Collaboration], "Search for displaced muonic lepton jets from light Higgs boson decay in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **721**, 32 (2013) doi:10.1016/j.physletb.2013.02.058 [arXiv:1210.0435 [hep-ex]].

1209. G. Aad *et al.* [ATLAS Collaboration], "Search for resonant top plus jet production in $t\bar{t}$ + jets events with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Rev. D **86**, 091103 (2012) doi:10.1103/PhysRevD.86.091103 [arXiv:1209.6593 [hep-ex]].

1210. G. Aad *et al.* [ATLAS Collaboration], "Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **110**, no. 1, 011802 (2013) doi:10.1103/PhysRevLett.110.011802 [arXiv:1209.4625 [hep-ex]].

1211. G. Aad *et al.* [ATLAS Collaboration], "ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **72**, 2241 (2012) doi:10.1140/epjc/s10052-012-2241-5 [arXiv:1209.4446 [hep-ex]].

1212. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC," JHEP **1211**, 094 (2012) doi:10.1007/JHEP11(2012)094 [arXiv:1209.4186 [hep-ex]].

1213. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass resonances decaying to dilepton final states in pp collisions at s**(1/2) = 7-TeV with the ATLAS detector," JHEP **1211**, 138 (2012) doi:10.1007/JHEP11(2012)138 [arXiv:1209.2535 [hep-ex]].

1214. G. Aad *et al.* [ATLAS Collaboration], "Search for light top squark pair production in final states with leptons and b^- jets with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **720**, 13 (2013) doi:10.1016/j.physletb.2013.01.049 [arXiv:1209.2102 [hep-ex]].

1215. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of three-jet to two-jet cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **720**, 6 (2013) doi:10.1016/j.physletb.2013.01.048 [arXiv:1209.1140 [hep-ex]].

1216. G. Aad *et al.* [ATLAS Collaboration], "Search for diphoton events with large missing transverse momentum in 7 TeV proton-proton collision data with the ATLAS detector," Phys. Lett. B **718**, 411 (2012) doi:10.1016/j.physletb.2012.10.069 [arXiv:1209.0753 [hep-ex]].

1217. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS," JHEP **1211**, 033 (2012) doi:10.1007/JHEP11(2012)033 [arXiv:1208.6256 [hep-ex]].

1218. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the semileptonic charge asymmetry in B^0 meson mixing with the D0 detector," Phys. Rev. D **86**, 072009 (2012) doi:10.1103/PhysRevD.86.072009 [arXiv:1208.5813 [hep-ex]].

1219. V. M. Abazov *et al.* [D0 Collaboration], "Limits on anomalous trilinear gauge boson couplings from WW, WZ and $W\gamma$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **718**, 451 (2012) doi:10.1016/j.physletb.2012.10.062 [arXiv:1208.5458 [hep-ex]].

1220. G. Aad *et al.* [ATLAS Collaboration], "Further search for supersymmetry at $\sqrt{s} = 7$ TeV in final states with jets, missing transverse momentum and isolated leptons with the ATLAS detector," Phys. Rev. D **86**, 092002 (2012) doi:10.1103/PhysRevD.86.092002 [arXiv:1208.4688 [hep-ex]].

1221. G. Aad *et al.* [ATLAS Collaboration], "Search for light scalar top quark pair production in final states with two leptons with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Eur. Phys. J. C **72**, 2237 (2012) doi:10.1140/epjc/s10052-012-2237-1 [arXiv:1208.4305 [hep-ex]].

1222. G. Aad *et al.* [ATLAS Collaboration], "Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," Phys. Lett. B **718**, 841 (2013) doi:10.1016/j.physletb.2012.11.039 [arXiv:1208.3144 [hep-ex]].

1223. G. Aad *et al.* [ATLAS Collaboration], "Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Lett. B **718**, 879 (2013) doi:10.1016/j.physletb.2012.11.058 [arXiv:1208.2884 [hep-ex]].

1224. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in the WW to $\ell\nu\ell'\,\nu'$ final state in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **718**, 860 (2013) doi:10.1016/j.physletb.2012.11.040 [arXiv:1208.2880 [hep-ex]].

1225. G. Aad *et al.* [ATLAS Collaboration], "Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions using 4.7 fb^{-1} of ATLAS data," Phys. Rev. Lett. **109**, 211803 (2012) doi:10.1103/PhysRevLett.109.211803 [arXiv:1208.2590 [hep-ex]].

1226. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}}$= 2.76 TeV

with the ATLAS detector," Phys. Lett. B **719**, 220 (2013) doi:10.1016/j.physletb.2013.01.024 [arXiv:1208.1967 [hep-ex]].

1227. G. Aad *et al.* [ATLAS Collaboration], "Search for a supersymmetric partner to the top quark in final states with jets and missing transverse momentum at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **109**, 211802 (2012) doi:10.1103/PhysRevLett.109.211802 [arXiv:1208.1447 [hep-ex]].

1228. G. Aad *et al.* [ATLAS Collaboration], "Measurement of WZ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **72**, 2173 (2012) doi:10.1140/epjc/s10052-012-2173-0 [arXiv:1208.1390 [hep-ex]].

1229. G. Aad *et al.* [ATLAS Collaboration], "Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb^{-1} of $\sqrt{s} = 7$ TeV proton-proton collision data," Phys. Rev. D **87**, no. 1, 012008 (2013) doi:10.1103/PhysRevD.87.012008 [arXiv:1208.0949 [hep-ex]].

1230. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in associated WH production in 9.7 fb^{-1} of $p\bar{p}$ collisions with the D0 detector," Phys. Rev. Lett. **109**, 121804 (2012) doi:10.1103/PhysRevLett.109.121804 [arXiv:1208.0653 [hep-ex]].

1231. G. Aad *et al.* [ATLAS Collaboration], "Time-dependent angular analysis of the decay $B_s^0 \to J/\psi\phi$ and extraction of $\Delta\Gamma_s$ and the CP-violating weak phase ϕ_s by ATLAS," JHEP **1212**, 072 (2012) doi:10.1007/JHEP12(2012)072 [arXiv:1208.0572 [hep-ex]].

1232. G. Aad *et al.* [ATLAS Collaboration], "Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **86**, 072004 (2012) doi:10.1103/PhysRevD.86.072004 [arXiv:1208.0563 [hep-ex]].

1233. G. Aad *et al.* [ATLAS Collaboration], "Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC," Phys. Lett. B **716**, 1 (2012) doi:10.1016/j.physletb.2012.08.020 [arXiv:1207.7214 [hep-ex]].

1234. G. Aad *et al.* [ATLAS Collaboration], "Measurement of charged-particle event shape variables in $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector," Phys. Rev. D **88**, no. 3, 032004 (2013) doi:10.1103/PhysRevD.88.032004 [arXiv:1207.6915 [hep-ex]].

1235. V. M. Abazov *et al.* [D0 Collaboration], "Combined search for the standard model Higgs boson decaying to $b\bar{b}$ using the D0 Run II data set," Phys. Rev. Lett. **109**, 121802 (2012) doi:10.1103/PhysRevLett.109.121802 [arXiv:1207.6631 [hep-ex]].

1236. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Evidence for a particle produced in association with weak bosons and decaying to a bottom-antibottom quark pair in Higgs boson searches at the Tevatron," Phys. Rev. Lett. **109**, 071804 (2012) doi:10.1103/PhysRevLett.109.071804 [arXiv:1207.6436 [hep-ex]].

1237. G. Aad *et al.* [ATLAS Collaboration], "Search for magnetic monopoles in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," Phys. Rev. Lett. **109**, 261803 (2012) doi:10.1103/PhysRevLett.109.261803 [arXiv:1207.6411 [hep-ex]].

1238. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in $ZH \to \ell^+\ell^- b\bar{b}$ production with the D0 detector in 9.7 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **109**, 121803 (2012) doi:10.1103/PhysRevLett.109.121803 [arXiv:1207.5819 [hep-ex]].

1239. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in the $ZH \to \nu\bar{\nu}b\bar{b}$ channel in 9.5 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **716**, 285 (2012) doi:10.1016/j.physletb.2012.08.034 [arXiv:1207.5689 [hep-ex]].

1240. G. Aad *et al.* [ATLAS Collaboration], "Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **73**, no. 1, 2261 (2013) doi:10.1140/epjc/s10052-012-2261-1 [arXiv:1207.5644 [hep-ex]].

1241. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of angular correlations of jets at $\sqrt{s} = 1.96$ TeV and determination of the strong coupling at high momentum transfers," Phys. Lett. B **718**, 56 (2012) doi:10.1016/j.physletb.2012.10.003 [arXiv:1207.4957 [hep-ex]].

1242. G. Aad *et al.* [ATLAS Collaboration], "Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector," Eur. Phys. J. C **72**, 2174 (2012) doi:10.1140/epjc/s10052-012-2174-z [arXiv:1207.4686 [hep-ex]].

1243. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Semileptonic Charge Asymmetry using $B_s^0 D_s X$ Decays," Phys. Rev. Lett. **110**, 011801 (2013) doi:10.1103/PhysRevLett.110.011801 [arXiv:1207.1769 [hep-ex]].

1244. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Search for Neutral Higgs Bosons in Events with Multiple Bottom Quarks at the Tevatron," Phys. Rev. D **86**, 091101 (2012) doi:10.1103/PhysRevD.86.091101 [arXiv:1207.2757 [hep-ex]].

1245. G. Aad *et al.* [ATLAS Collaboration], "A search for $t\bar{t}$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1209**, 041 (2012) doi:10.1007/JHEP09(2012)041 [arXiv:1207.2409 [hep-ex]].

1246. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the ^0_b lifetime and mass in the ATLAS experiment," Phys. Rev. D **87**, no. 3, 032002 (2013) doi:10.1103/PhysRevD.87.032002 [arXiv:1207.2284 [hep-ex]].

1247. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Combination of the top-quark mass measurements from the Tevatron collider," Phys. Rev. D **86**, 092003 (2012) doi:10.1103/PhysRevD.86.092003 [arXiv:1207.1069 [hep-ex]].

1248. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs boson production in oppositely charged dilepton and missing energy events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **86**, 032010 (2012) doi:10.1103/PhysRevD.86.032010 [arXiv:1207.1041 [hep-ex]].

1249. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of Leptonic Asymmetries and Top Quark Polarization in $t\bar{t}$ Production," Phys. Rev. D **87**, no. 1, 011103 (2013) doi:10.1103/PhysRevD.87.011103 [arXiv:1207.0364 [hep-ex]].

1250. G. Aad *et al.* [ATLAS Collaboration], "Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **86**, 032003 (2012) doi:10.1103/PhysRevD.86.032003 [arXiv:1207.0319 [hep-ex]].

1251. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector," Phys. Lett. B **718**, 369 (2012) doi:10.1016/j.physletb.2012.10.061 [arXiv:1207.0210 [hep-ex]].

1252. G. Aad *et al.* [ATLAS Collaboration], "Search for the Higgs boson in the $H \to WW \to$ lnujj decay channel at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **718**, 391 (2012) doi:10.1016/j.physletb.2012.10.066 [arXiv:1206.6074 [hep-ex]].

1253. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the H to $\tau^+\tau^-$ decay mode in $\sqrt{s} = 7$ TeV pp collisions with ATLAS," JHEP **1209**, 070 (2012) doi:10.1007/JHEP09(2012)070 [arXiv:1206.5971 [hep-ex]].

1254. G. Aad *et al.* [ATLAS Collaboration], "ATLAS measurements of the properties of jets for boosted particle searches," Phys. Rev. D **86**, 072006 (2012) doi:10.1103/PhysRevD.86.072006 [arXiv:1206.5369 [hep-ex]].

1255. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the b-hadron production cross section using decays to $D^*\mu^-X$ final states in pp collisions at sqrt(s) = 7 TeV with the ATLAS detector," Nucl. Phys. B **864**, 341 (2012) doi:10.1016/j.nuclphysb.2012.07.009 [arXiv:1206.3122 [hep-ex]].

1256. G. Aad *et al.* [ATLAS Collaboration], "Search for a standard model Higgs boson in the mass range 200-600 GeV in the $H \to ZZ \to \ell^+\ell^- q\bar{q}$ decay channel with the ATLAS detector," Phys. Lett. B **717**, 70 (2012) doi:10.1016/j.physletb.2012.09.020 [arXiv:1206.2443 [hep-ex]].

1257. G. Aad *et al.* [ATLAS Collaboration], "Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **72**, 2211 (2012) doi:10.1140/epjc/s10052-012-2211-y [arXiv:1206.2135 [hep-ex]].

1258. G. Aad *et al.* [ATLAS Collaboration], "Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb^{-1} of $\sqrt{s} = 7$ TeV proton-proton collisions," JHEP **1207**, 167 (2012) doi:10.1007/JHEP07(2012)167 [arXiv:1206.1760 [hep-ex]].

1259. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the $H \to$ WW(*) $\to \ell\nu\ell\nu$ decay mode with 4.7 /fb of ATLAS data at $\sqrt{s} = 7$ TeV," Phys. Lett. B **716**, 62 (2012) doi:10.1016/j.physletb.2012.08.010 [arXiv:1206.0756 [hep-ex]].

1260. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the differential cross section $d\sigma/dt$ in elastic $p\bar{p}$ scattering at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **86**, 012009 (2012) doi:10.1103/PhysRevD.86.012009 [arXiv:1206.0687 [hep-ex]].

1261. G. Aad *et al.* [ATLAS Collaboration], "A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at $\sqrt{s} = 7$ TeV," JHEP **1209**, 139 (2012) doi:10.1007/JHEP09(2012)139 [arXiv:1206.0257 [hep-ex]].

1262. G. Aad *et al.* [ATLAS Collaboration], "Search for a standard sodel Higgs boson in the H $\to$ ZZ $\to \ell^+\ell^-\nu\bar{\nu}$ decay channel using 4.7 fb^{-1} of $\sqrt{s} = 7$ TeV data with the ATLAS detector," Phys. Lett. B **717**, 29 (2012) doi:10.1016/j.physletb.2012.09.016 [arXiv:1205.6744 [hep-ex]].

1263. G. Aad *et al.* [ATLAS Collaboration], "Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s} = 7$ TeV," Phys. Lett. B **716**, 142 (2012) doi:10.1016/j.physletb.2012.08.011 [arXiv:1205.5764 [hep-ex]].

1264. G. Aad *et al.* [ATLAS Collaboration], "A search for $t\bar{t}$ resonances with the ATLAS detector in 2.05 fb^{-1} of proton-proton collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **72**, 2083 (2012) doi:10.1140/epjc/s10052-012-2083-1 [arXiv:1205.5371 [hep-ex]].

1265. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **717**, 330 (2012) doi:10.1016/j.physletb.2012.09.031 [arXiv:1205.3130 [hep-ex]].

1266. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $W\gamma$ and $Z\gamma$ production cross sections in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous triple gauge couplings with the ATLAS detector," Phys. Lett. B **717**, 49 (2012) doi:10.1016/j.physletb.2012.09.017 [arXiv:1205.2531 [hep-ex]].

1267. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the W boson polarization in top quark decays with the ATLAS detector," JHEP **1206**, 088 (2012) doi:10.1007/JHEP06(2012)088 [arXiv:1205.2484 [hep-ex]].

1268. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark pair cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV using final states with an electron or a muon and a hadronically decaying τ lepton," Phys. Lett. B **717**, 89 (2012) doi:10.1016/j.physletb.2012.09.032 [arXiv:1205.2067 [hep-ex]].

1269. G. Aad *et al.* [ATLAS Collaboration], "Search for tb resonances in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **109**, 081801 (2012) doi:10.1103/PhysRevLett.109.081801 [arXiv:1205.1016 [hep-ex]].

1270. G. Aad *et al.* [ATLAS Collaboration], "Search for lepton flavour violation in the emu continuum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC," Eur. Phys. J. C **72**, 2040 (2012) doi:10.1140/epjc/s10052-012-2040-z [arXiv:1205.0725 [hep-ex]].

1271. G. Aad *et al.* [ATLAS Collaboration], "Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector," Eur. Phys. J. C **72**, 2157 (2012) doi:10.1140/epjc/s10052-012-2157-0 [arXiv:1205.0701 [hep-ex]].

1272. G. Aad *et al.* [ATLAS Collaboration], "Search for scalar top quark pair production in natural gauge mediated supersymmetry models with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Lett. B **715**, 44 (2012) doi:10.1016/j.physletb.2012.07.010 [arXiv:1204.6736 [hep-ex]].

1273. G. Aad *et al.* [ATLAS Collaboration], "Measurement of τ polarization in $W- > \tau\nu$ decays with the ATLAS detector in pp collisions at sqrt(s) = 7 TeV," Eur. Phys. J. C **72**, 2062 (2012) doi:10.1140/epjc/s10052-012-2062-6 [arXiv:1204.6720 [hep-ex]].

1274. V. M. Abazov *et al.* [D0 Collaboration], "Study of the decay $B_s^0 \to J/\psi f_2'(1525)$ in $\mu^+\mu^- K^+ K^-$ final states," Phys. Rev. D **86**, 092011 (2012) doi:10.1103/PhysRevD.86.092011 [arXiv:1204.5723 [hep-ex]].

1275. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," Phys. Rev. Lett. **108**, 261804 (2012) doi:10.1103/PhysRevLett.108.261804 [arXiv:1204.5638 [hep-ex]].

1276. G. Aad *et al.* [ATLAS Collaboration], "Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 7$ TeV," Phys. Lett. B **716**, 122 (2012) doi:10.1016/j.physletb.2012.08.009 [arXiv:1204.4646 [hep-ex]].

1277. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying τ lepton in proton-proton collisions at $\sqrt{s} =$ 7 TeV with the ATLAS detector," Phys. Lett. B **714**, 197 (2012) doi:10.1016/j.physletb.2012.06.061 [arXiv:1204.3852 [hep-ex]].

1278. G. Aad *et al.* [ATLAS Collaboration], "Search for charged Higgs bosons decaying via $H^+ \to \tau\nu$ in top quark pair events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1206**, 039 (2012) doi:10.1007/JHEP06(2012)039 [arXiv:1204.2760 [hep-ex]].

1279. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Λ_b^0 lifetime in the exclusive decay $\Lambda_b^0 \to J/\psi\Lambda^0$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **85**, 112003 (2012) doi:10.1103/PhysRevD.85.112003 [arXiv:1204.2340 [hep-ex]].

1280. V. M. Abazov *et al.* [D0 Collaboration], "Combination of searches for anomalous top quark couplings with 5.4 fb^{-1} of $p\bar{p}$ collisions," Phys. Lett. B **713**, 165 (2012) doi:10.1016/j.physletb.2012.05.048 [arXiv:1204.2332 [hep-ex]].

1281. G. Aad *et al.* [ATLAS Collaboration], "Search for resonant WZ production in the $WZ \to \ell\nu\ell'\ell'$ channel in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," Phys. Rev. D **85**, 112012 (2012) doi:10.1103/PhysRevD.85.112012 [arXiv:1204.1648 [hep-ex]].

1282. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of a new quark that decays to a Z boson and a bottom quark with the ATLAS detector," Phys. Rev. Lett. **109**, 071801 (2012) doi:10.1103/PhysRevLett.109.071801 [arXiv:1204.1265 [hep-ex]].

1283. G. Aad *et al.* [ATLAS Collaboration], "Search for the decay $B_s^0 \to \mu\mu$ with the ATLAS detector," Phys. Lett. B **713**, 387 (2012) doi:10.1016/j.physletb.2012.06.013 [arXiv:1204.0735 [hep-ex]].

1284. G. Aad *et al.* [ATLAS Collaboration], "Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV protonproton collision data with the ATLAS detector," Phys. Lett. B **714**, 180 (2012) doi:10.1016/j.physletb.2012.06.055 [arXiv:1203.6580 [hep-ex]].

1285. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the WW cross section in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector and limits on anomalous gauge couplings," Phys. Lett. B **712**, 289 (2012) doi:10.1016/j.physletb.2012.05.003 [arXiv:1203.6232 [hep-ex]].

1286. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in final states with missing transverse momentum and b^- jets with the ATLAS detector," Phys. Rev. D **85**, 112006 (2012) doi:10.1103/PhysRevD.85.112006 [arXiv:1203.6193 [hep-ex]].

1287. V. M. Abazov *et al.* [D0 Collaboration], "Search for violation of Lorentz invariance in top quark pair production and decay," Phys. Rev. Lett. **108**, 261603 (2012) doi:10.1103/PhysRevLett.108.261603 [arXiv:1203.6106 [hep-ex]].

1288. V. M. Abazov *et al.* [D0 Collaboration], "Observation of a narrow mass state decaying into $\Upsilon(1S)+\gamma$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **86**, 031103 (2012) doi:10.1103/PhysRevD.86.031103 [arXiv:1203.6034 [hep-ex]].

1289. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the photon+b-jet production differential cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **714**, 32 (2012) doi:10.1016/j.physletb.2012.06.056 [arXiv:1203.5865 [hep-ex]].

1290. G. Aad *et al.* [ATLAS Collaboration], "Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Rev. Lett. **108**, 241802 (2012) doi:10.1103/PhysRevLett.108.241802 [arXiv:1203.5763 [hep-ex]].

1291. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark mass with the template method in the $t\bar{t}$ -¿ lepton + jets channel using ATLAS data," Eur. Phys. J. C **72**, 2046 (2012) doi:10.1140/epjc/s10052-012-2046-6 [arXiv:1203.5755 [hep-ex]].

1292. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **72**, 2056 (2012) doi:10.1140/epjc/s10052-012-2056-4 [arXiv:1203.5420 [hep-ex]].

1293. V. M. Abazov *et al.* [D0 Collaboration], "Search for $Z\gamma$ events with large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **86**, 071701 (2012) doi:10.1103/PhysRevD.86.071701 [arXiv:1203.5311 [hep-ex]].

1294. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $t\bar{t}$ production with a veto on additional central jet activity in pp collisions at sqrt(s) = 7 TeV using the ATLAS detector," Eur. Phys. J. C **72**, 2043 (2012) doi:10.1140/epjc/s10052-012-2043-9 [arXiv:1203.5015 [hep-ex]].

1295. G. Aad *et al.* [ATLAS Collaboration], "Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment," JHEP **1205**, 128 (2012) doi:10.1007/JHEP05(2012)128 [arXiv:1203.4606 [hep-ex]].

1296. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in tau lepton pair final states," Phys. Lett. B **714**, 237 (2012) doi:10.1016/j.physletb.2012.07.012 [arXiv:1203.4443 [hep-ex]].

1297. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Eur. Phys. J. C **72**, 2039 (2012) doi:10.1140/epjc/s10052-012-2039-5 [arXiv:1203.4211 [hep-ex]].

1298. G. Aad *et al.* [ATLAS Collaboration], "Observation of spin correlation in $t\bar{t}$ events from pp collisions at sqrt(s) = 7 TeV using the ATLAS detector," Phys. Rev. Lett. **108**, 212001 (2012) doi:10.1103/PhysRevLett.108.212001 [arXiv:1203.4081 [hep-ex]].

1299. G. Aad *et al.* [ATLAS Collaboration], "Determination of the strange quark density of the proton from ATLAS measurements of the $W \to \ell\nu$ and $Z \to \ell\ell$ cross sections," Phys. Rev. Lett. **109**, 012001 (2012) doi:10.1103/PhysRevLett.109.012001 [arXiv:1203.4051 [hep-ex]].

1300. G. Aad *et al.* [ATLAS Collaboration], "Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC," JHEP **1205**, 157 (2012) doi:10.1007/JHEP05(2012)157 [arXiv:1203.3549 [hep-ex]].

1301. G. Aad *et al.* [ATLAS Collaboration], "Search for second generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **72**, 2151 (2012) doi:10.1140/epjc/s10052-012-2151-6 [arXiv:1203.3172 [hep-ex]].

1302. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 092014 (2012) doi:10.1103/PhysRevD.85.092014 [arXiv:1203.3161 [hep-ex]].

1303. G. Aad *et al.* [ATLAS Collaboration], "Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector," JHEP **1207**, 019 (2012) doi:10.1007/JHEP07(2012)019 [arXiv:1203.3100 [hep-ex]].

1304. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the azimuthal anisotropy for charged particle production in $\sqrt{s_{NN}} = 2.76$ TeV lead-lead collisions with the ATLAS detector," Phys. Rev. C **86**, 014907 (2012) doi:10.1103/PhysRevC.86.014907 [arXiv:1203.3087 [hep-ex]].

1305. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment," Eur. Phys. J. C **72**, 2001 (2012) doi:10.1140/epjc/s10052-012-2001-6 [arXiv:1203.2165 [hep-ex]].

1306. G. Aad *et al.* [ATLAS Collaboration], "Search for a light Higgs boson decaying to long-lived weakly-interacting particles in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **108**, 251801 (2012) doi:10.1103/PhysRevLett.108.251801 [arXiv:1203.1303 [hep-ex]].

1307. G. Aad *et al.* [ATLAS Collaboration], "Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC," Eur. Phys. J. C **73**, no. 3, 2305 (2013) doi:10.1140/epjc/s10052-013-2305-1 [arXiv:1203.1302 [hep-ex]].

1308. V. M. Abazov *et al.* [D0 Collaboration], "Search for WH associated production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\,\mathrm{TeV}$," Phys. Rev. D **86**, 032005 (2012) doi:10.1103/PhysRevD.86.032005 [arXiv:1203.1082 [hep-ex]].

1309. G. Aad *et al.* [ATLAS Collaboration], "Search for new particles decaying to ZZ using final states with leptons and jets with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **712**, 331 (2012) doi:10.1016/j.physletb.2012.05.020 [arXiv:1203.0718 [hep-ex]].

1310. G. Aad *et al.* [ATLAS Collaboration], "Search for FCNC single top-quark production at $\sqrt{s} =$ 7 TeV with the ATLAS detector," Phys. Lett. B **712**, 351 (2012) doi:10.1016/j.physletb.2012.05.022 [arXiv:1203.0529 [hep-ex]].

1311. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector," Phys. Rev. D **86**, 052005 (2012) doi:10.1103/PhysRevD.86.052005 [arXiv:1203.0419 [hep-ex]].

1312. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W Boson Mass with the D0 Detector," Phys. Rev. Lett. **108**, 151804 (2012) doi:10.1103/PhysRevLett.108.151804 [arXiv:1203.0293 [hep-ex]].

1313. G. Aad *et al.* [ATLAS Collaboration], "Search for down-type fourth generation quarks with the ATLAS detector in events with one lepton and hadronically decaying W bosons," Phys. Rev. Lett. **109**, 032001 (2012) doi:10.1103/PhysRevLett.109.032001 [arXiv:1202.6540 [hep-ex]].

1314. G. Aad *et al.* [ATLAS Collaboration], "Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1204**, 069 (2012) doi:10.1007/JHEP04(2012)069 [arXiv:1202.5520 [hep-ex]].

1315. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Combination of CDF and D0 measurements of the W boson helicity in top quark decays," Phys. Rev. D **85**, 071106 (2012) doi:10.1103/PhysRevD.85.071106 [arXiv:1202.5272 [hep-ex]].

1316. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high-pt leptons," JHEP **1205**, 059 (2012) doi:10.1007/JHEP05(2012)059 [arXiv:1202.4892 [hep-ex]].

1317. G. Aad *et al.* [ATLAS Collaboration], "Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **72**, 1993 (2012) doi:10.1140/epjc/s10052-012-1993-2 [arXiv:1202.4847 [hep-ex]].

1318. G. Aad *et al.* [ATLAS Collaboration], "Search for pair-produced heavy quarks decaying to Wq in the two-lepton channel at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **86**, 012007 (2012) doi:10.1103/PhysRevD.86.012007 [arXiv:1202.3389 [hep-ex]].

1319. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of a heavy up-type quark decaying to a W boson and a b quark in the lepton+jets channel with the ATLAS detector," Phys. Rev. Lett. **108**, 261802 (2012) doi:10.1103/PhysRevLett.108.261802 [arXiv:1202.3076 [hep-ex]].

1320. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of the scalar top quark in muon+tau final states," Phys. Lett. B **710**, 578 (2012) doi:10.1016/j.physletb.2012.03.028 [arXiv:1202.1978 [hep-ex]].

1321. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the decay channel $H \to ZZ^{(*)} \to 4\ell$ with 4.8 fb^{-1} of pp collision data at $\sqrt{s} = 7$ TeV with ATLAS," Phys. Lett. B **710**, 383 (2012) doi:10.1016/j.physletb.2012.03.005 [arXiv:1202.1415 [hep-ex]].

1322. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the diphoton decay channel with 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV with ATLAS," Phys. Rev. Lett. **108**, 111803 (2012) doi:10.1103/PhysRevLett.108.111803 [arXiv:1202.1414 [hep-ex]].

1323. G. Aad *et al.* [ATLAS Collaboration], "Combined search for the Standard Model Higgs boson using up to 4.9 fb^{-1} of pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC," Phys. Lett. B **710**, 49 (2012) doi:10.1016/j.physletb.2012.02.044 [arXiv:1202.1408 [hep-ex]].

1324. V. M. Abazov *et al.* [D0 Collaboration], "A measurement of the WZ and ZZ production cross sections using leptonic final states in 8.6 fb^{-1} of $p\bar{p}$ collisions," Phys. Rev. D **85**, 112005 (2012) doi:10.1103/PhysRevD.85.112005 [arXiv:1201.5652 [hep-ex]].

1325. G. Aad *et al.* [ATLAS Collaboration], "Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector," Eur. Phys. J. C **72**, 1965 (2012) doi:10.1140/epjc/s10052-012-1965-6 [arXiv:1201.5595 [hep-ex]].

1326. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark mass in $p\bar{p}$ collisions using events with two leptons," Phys. Rev. D **86**, 051103 (2012) doi:10.1103/PhysRevD.86.051103 [arXiv:1201.5172 [hep-ex]].

1327. V. M. Abazov *et al.* [D0 Collaboration], "An Improved determination of the width of the top quark," Phys. Rev. D **85**, 091104 (2012) doi:10.1103/PhysRevD.85.091104 [arXiv:1201.4156 [hep-ex]].

1328. G. Aad *et al.* [ATLAS Collaboration], "Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 072003 (2012) doi:10.1103/PhysRevD.85.072003 [arXiv:1201.3293 [hep-ex]].

1329. G. Aad *et al.* [ATLAS Collaboration], "Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **72**, 1926 (2012) doi:10.1140/epjc/s10052-012-1926-0 [arXiv:1201.2808 [hep-ex]].

1330. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel," Phys. Lett. B **711**, 244 (2012) doi:10.1016/j.physletb.2012.03.083 [arXiv:1201.1889 [hep-ex]].

1331. G. Aad *et al.* [ATLAS Collaboration], "Study of jets produced in association with a W boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 092002 (2012) doi:10.1103/PhysRevD.85.092002 [arXiv:1201.1276 [hep-ex]].

1332. G. Aad *et al.* [ATLAS Collaboration], "Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the Standard Model with the ATLAS detector," Phys. Rev. D **85**, 032004 (2012) doi:10.1103/PhysRevD.85.032004 [arXiv:1201.1091 [hep-ex]].

1333. G. Aad *et al.* [ATLAS Collaboration], "Jet energy measurement with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **73**, no. 3, 2304 (2013) doi:10.1140/epjc/s10052-013-2304-2 [arXiv:1112.6426 [hep-ex]].

1334. G. Aad *et al.* [ATLAS Collaboration], "Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Phys. Rev. D **86**, 014022 (2012) doi:10.1103/PhysRevD.86.014022 [arXiv:1112.6297 [hep-ex]].

1335. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **712**, 22 (2012) doi:10.1016/j.physletb.2012.03.082 [arXiv:1112.5755 [hep-ex]].

1336. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs bosons of the minimal supersymmetric standard model in $p\bar{p}$ collisions at $\sqrt(s) = 1.96$ TeV," Phys. Lett. B **710**, 569 (2012) doi:10.1016/j.physletb.2012.03.021 [arXiv:1112.5431 [hep-ex]].

1337. G. Aad *et al.* [ATLAS Collaboration], "Observation of a new χ_b state in radiative transitions to $\Upsilon(1S)$ and $\Upsilon(2S)$ at ATLAS," Phys. Rev. Lett. **108**, 152001 (2012) doi:10.1103/PhysRevLett.108.152001 [arXiv:1112.5154 [hep-ex]].

1338. G. Aad *et al.* [ATLAS Collaboration], "Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **709**, 158 (2012) [Phys. Lett. B **711**, 442 (2012)] doi:10.1016/j.physletb.2012.03.023, 10.1016/j.physletb.2012.02.004 [arXiv:1112.4828 [hep-ex]].

1339. V. M. Abazov *et al.* [D0 Collaboration], "Search for universal extra dimensions in $p\bar{p}$ collisions," Phys. Rev. Lett. **108**, 131802 (2012) doi:10.1103/PhysRevLett.108.131802 [arXiv:1112.4092 [hep-ex]].

1340. G. Aad *et al.* [ATLAS Collaboration], "Measurement of $D^{*+/-}$ meson production in jets from pp collisions at sqrt(s) = 7 TeV with the ATLAS detector," Phys. Rev. D **85**, 052005 (2012) doi:10.1103/PhysRevD.85.052005 [arXiv:1112.4432 [hep-ex]].

1341. G. Aad *et al.* [ATLAS Collaboration], "Search for contact interactions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **712**, 40 (2012) doi:10.1016/j.physletb.2012.04.026 [arXiv:1112.4462 [hep-ex]].

1342. G. Aad *et al.* [ATLAS Collaboration], "Search for scalar bottom quark pair production with the ATLAS detector in pp Collisions at $\sqrt{s} = 7$ TeV," Phys. Rev. Lett. **108**, 181802 (2012) doi:10.1103/PhysRevLett.108.181802 [arXiv:1112.3832 [hep-ex]].

1343. G. Aad *et al.* [ATLAS Collaboration], "Search for production of resonant states in the photon-jet mass distribution using pp collisions at $\sqrt{s} = 7$ TeV collected by the ATLAS detector," Phys. Rev. Lett. **108**, 211802 (2012) doi:10.1103/PhysRevLett.108.211802 [arXiv:1112.3580 [hep-ex]].

1344. G. Aad *et al.* [ATLAS Collaboration], "Search for the Higgs boson in the $H \to \mathrm{WW}(*) \to \ell_\nu \ell_\nu$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **108**, 111802 (2012) doi:10.1103/PhysRevLett.108.111802 [arXiv:1112.2577 [hep-ex]].

1345. G. Aad *et al.* [ATLAS Collaboration], "Search for extra dimensions using diphoton events in 7 TeV protonproton collisions with the ATLAS detector," Phys. Lett. B **710**, 538 (2012) doi:10.1016/j.physletb.2012.03.022 [arXiv:1112.2194 [hep-ex]].

1346. V. M. Abazov *et al.* [D0 Collaboration], "Measurements of WW and WZ production in W + jets final states in $p\bar{p}$ collisions," Phys. Rev. Lett. **108**, 181803 (2012) doi:10.1103/PhysRevLett.108.181803 [arXiv:1112.0536 [hep-ex]].

1347. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $W^{\pm}Z$ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **709**, 341 (2012) doi:10.1016/j.physletb.2012.02.053 [arXiv:1111.5570 [hep-ex]].

1348. G. Aad *et al.* [ATLAS Collaboration], "Search for diphoton events with large missing transverse momentum in fb^{-1} of 7 TeV protonproton collision data with the ATLAS detector," Phys. Lett. B **710**, 519 (2012) doi:10.1016/j.physletb.2012.02.054 [arXiv:1111.4116 [hep-ex]].

1349. V. M. Abazov *et al.* [D0 Collaboration], "$Z\gamma$ production and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **85**, 052001 (2012) doi:10.1103/PhysRevD.85.052001 [arXiv:1111.3684 [hep-ex]].

1350. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section for Z/gamma* in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 032009 (2012) doi:10.1103/PhysRevD.85.032009 [arXiv:1111.2690 [hep-ex]].

1351. V. M. Abazov *et al.* [D0 Collaboration], "Search for a Narrow $t\bar{t}$ Resonance in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **85**, 051101 (2012) doi:10.1103/PhysRevD.85.051101 [arXiv:1111.1271 [hep-ex]].

1352. G. Aad *et al.* [ATLAS Collaboration], "Kshort and Λ production in pp interactions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector at the LHC," Phys. Rev. D **85**, 012001 (2012) doi:10.1103/PhysRevD.85.012001 [arXiv:1111.1297 [hep-ex]].

1353. G. Aad *et al.* [ATLAS Collaboration], "Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC," Phys. Lett. B **709**, 322 (2012) doi:10.1016/j.physletb.2012.02.049 [arXiv:1111.0080 [hep-ex]].

1354. G. Aad *et al.* [ATLAS Collaboration], "A study of the material in the ATLAS inner detector using secondary hadronic interactions," JINST **7**, P01013 (2012) doi:10.1088/1748-0221/7/01/P01013 [arXiv:1110.6191 [hep-ex]].

1355. G. Aad *et al.* [ATLAS Collaboration], "Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **709**, 137 (2012) doi:10.1016/j.physletb.2012.01.076 [arXiv:1110.6189 [hep-ex]].

1356. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **108**, 041804 (2012) doi:10.1103/PhysRevLett.108.041804 [arXiv:1110.5016 [hep-ex]].

1357. V. M. Abazov *et al.* [D0 Collaboration], "Search for anomalous Wtb couplings in single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **708**, 21 (2012) doi:10.1016/j.physletb.2012.01.014 [arXiv:1110.4592 [hep-ex]].

1358. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the relative branching ratio of $B_s^0 to J/\psi f_0(980) \to B_s^0 \to J/\psi\phi$," Phys. Rev. D **85**, 011103 (2012) doi:10.1103/PhysRevD.85.011103 [arXiv:1110.4272 [hep-ex]].

1359. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for spin correlation in $t\bar{t}$ production," Phys. Rev. Lett. **108**, 032004 (2012) doi:10.1103/PhysRevLett.108.032004 [arXiv:1110.4194 [hep-ex]].

1360. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **85**, 052006 (2012) doi:10.1103/PhysRevD.85.052006 [arXiv:1110.3771 [hep-ex]].

1361. V. M. Abazov *et al.* [D0 Collaboration], "A Search for charged massive long-lived particles," Phys. Rev. Lett. **108**, 121802 (2012) doi:10.1103/PhysRevLett.108.121802 [arXiv:1110.3302 [hep-ex]].

1362. G. Aad *et al.* [ATLAS Collaboration], "Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data," Eur. Phys. J. C **72**, 1909 (2012) doi:10.1140/epjc/s10052-012-1909-1 [arXiv:1110.3174 [hep-ex]].

1363. G. Aad *et al.* [ATLAS Collaboration], "Search for Massive Colored Scalars in Four-Jet Final States in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS Detector," Eur. Phys. J. C **71**, 1828 (2011) doi:10.1140/epjc/s10052-011-1828-6 [arXiv:1110.2693 [hep-ex]].

1364. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector," JHEP **1111**, 099 (2011) doi:10.1007/JHEP11(2011)099 [arXiv:1110.2299 [hep-ex]].

1365. G. Aad *et al.* [ATLAS Collaboration], "Performance of the ATLAS Trigger System in 2010," Eur. Phys. J. C **72**, 1849 (2012) doi:10.1140/epjc/s10052-011-1849-1 [arXiv:1110.1530 [hep-ex]].

1366. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive and dijet cross-sections of b^- jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **71**, 1846 (2011) doi:10.1140/epjc/s10052-011-1846-4 [arXiv:1109.6833 [hep-ex]].

1367. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb^{-1} of ATLAS data," Phys. Rev. D **85**, no. 1, 012006 (2012) [Phys. Rev. D **87**, 099903 (2013)] doi:10.1103/PhysRevD.85.012006, 10.1103/PhysRevD.87.099903 [arXiv:1109.6606 [hep-ex]].

1368. G. Aad *et al.* [ATLAS Collaboration], "Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **710**, 67 (2012) doi:10.1016/j.physletb.2012.02.051 [arXiv:1109.6572 [hep-ex]].

1369. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the decay channel $HZZ^{()}4$ with the ATLAS detector," Phys. Lett. B **705**, 435 (2011) doi:10.1016/j.physletb.2011.10.034 [arXiv:1109.5945 [hep-ex]].

1370. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector," Eur. Phys. J. C **71**, 1795 (2011) doi:10.1140/epjc/s10052-011-1795-y [arXiv:1109.5816 [hep-ex]].

1371. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive $W^{\pm}$ and Z/gamma cross sections in the electron and muon decay channels in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 072004 (2012) doi:10.1103/PhysRevD.85.072004 [arXiv:1109.5141 [hep-ex]].

1372. G. Aad *et al.* [ATLAS Collaboration], "Search for New Phenomena in $t\bar{t}$ Events With Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector," Phys. Rev. Lett. **108**, 041805 (2012) doi:10.1103/PhysRevLett.108.041805 [arXiv:1109.4725 [hep-ex]].

1373. V. M. Abazov *et al.* [D0 Collaboration], "$W\gamma$ production and limits on anomalous $WW\gamma$ couplings in $p\bar{p}$ collisions," Phys. Rev. Lett. **107**, 241803 (2011) doi:10.1103/PhysRevLett.107.241803 [arXiv:1109.4432 [hep-ex]].

1374. G. Aad *et al.* [ATLAS Collaboration], "Search for the Higgs boson in the $H- > WW- > lvjj$ decay channel in pp collisions at sqrts = 7 TeV with the ATLAS detector," Phys. Rev. Lett. **107**, 231801 (2011) doi:10.1103/PhysRevLett.107.231801 [arXiv:1109.3615 [hep-ex]].

1375. G. Aad *et al.* [ATLAS Collaboration], "Search for a Standard Model Higgs boson in the $H- > ZZ- > l^+l^-v\nu^-$ decay channel with the ATLAS detector," Phys. Rev. Lett. **107**, 221802 (2011) doi:10.1103/PhysRevLett.107.221802 [arXiv:1109.3357 [hep-ex]].

1376. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy neutral particle decaying into an electron and a muon using 1 fb^{-1} of ATLAS data," Eur. Phys. J. C **71**, 1809 (2011) doi:10.1140/epjc/s10052-011-1809-9 [arXiv:1109.3089 [hep-ex]].

1377. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the CP-violating phase $\phi_s^{J/\psi\phi}$ using the flavor-tagged decay $B_s^0 \to J/\psi\phi$ in 8 fb^{-1} of $p\bar{p}$ collisions," Phys. Rev. D **85**, 032006 (2012) doi:10.1103/PhysRevD.85.032006 [arXiv:1109.3166 [hep-ex]].

1378. G. Aad *et al.* [ATLAS Collaboration], "Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS," Phys. Lett. B **707**, 478 (2012) doi:10.1016/j.physletb.2011.12.057 [arXiv:1109.2242 [hep-ex]].

1379. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross-section for b-jets produced in association with a Z boson at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **706**, 295 (2012) doi:10.1016/j.physletb.2011.11.059 [arXiv:1109.1403 [hep-ex]].

1380. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the cross section for the production of a W boson in association with b^- jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **707**, 418 (2012) doi:10.1016/j.physletb.2011.12.046 [arXiv:1109.1470 [hep-ex]].

1381. G. Aad *et al.* [ATLAS Collaboration], "Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **707**, 438 (2012) doi:10.1016/j.physletb.2011.12.054 [arXiv:1109.0525 [hep-ex]].

1382. G. Aad *et al.* [ATLAS Collaboration], "Search for New Physics in the Dijet Mass Distribution using 1 fb^{-1} of pp Collision Data at $\sqrt{s}$ =7 TeV collected by the ATLAS Detector," Phys. Lett. B **708**, 37 (2012) doi:10.1016/j.physletb.2012.01.035 [arXiv:1108.6311 [hep-ex]].

1383. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Transverse Momentum Distribution of W Bosons in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector," Phys. Rev. D **85**, 012005 (2012) doi:10.1103/PhysRevD.85.012005 [arXiv:1108.6308 [hep-ex]].

1384. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector," Phys. Lett. B **710**, 363 (2012) doi:10.1016/j.physletb.2012.02.045 [arXiv:1108.6027 [hep-ex]].

1385. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} =$ 2.76 TeV with the ATLAS detector," Phys. Lett. B **707**, 330 (2012) doi:10.1016/j.physletb.2011.12.056 [arXiv:1108.6018 [hep-ex]].

1386. G. Aad *et al.* [ATLAS Collaboration], "Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC," Phys. Lett. B **705**, 452 (2011) doi:10.1016/j.physletb.2011.10.051 [arXiv:1108.5895 [hep-ex]].

1387. G. Aad *et al.* [ATLAS Collaboration], "Performance of Missing Transverse Momentum Reconstruction in Proton-Proton Collisions at 7 TeV with ATLAS," Eur. Phys. J. C **72**, 1844 (2012) doi:10.1140/epjc/s10052-011-1844-6 [arXiv:1108.5602 [hep-ex]].

1388. V. M. Abazov *et al.* [D0 Collaboration], "Model independent search for new phenomena in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **85**, 092015 (2012) doi:10.1103/PhysRevD.85.092015 [arXiv:1108.5362 [hep-ex]].

1389. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy Standard Model Higgs boson in the channel $H \to ZZ \to \ell^+\ell q\bar{q}$ using the ATLAS detector," Phys. Lett. B **707**, 27 (2012) doi:10.1016/j.physletb.2011.11.056 [arXiv:1108.5064 [hep-ex]].

1390. G. Aad *et al.* [ATLAS Collaboration], "A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $\sqrt{s}$ =7 TeV with ATLAS," Phys. Lett. B **708**, 221 (2012) doi:10.1016/j.physletb.2012.01.042 [arXiv:1108.4908 [hep-ex]].

1391. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $W \to \tau\nu_\tau$ cross section in pp collisions at $\sqrt{s}$ =7 TeV with the ATLAS experiment," Phys. Lett. B **706**, 276 (2012) doi:10.1016/j.physletb.2011.11.057 [arXiv:1108.4101 [hep-ex]].

1392. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS," Phys. Lett. B **707**, 459 (2012) doi:10.1016/j.physletb.2011.12.055 [arXiv:1108.3699 [hep-ex]].

1393. V. M. Abazov *et al.* [D0 Collaboration], "Measurements of single top quark production cross sections and $|V_{tb}|$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **84**, 112001 (2011) doi:10.1103/PhysRevD.84.112001 [arXiv:1108.3091 [hep-ex]].

1394. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Z to tau tau Cross Section with the ATLAS Detector," Phys. Rev. D **84**, 112006 (2011) doi:10.1103/PhysRevD.84.112006 [arXiv:1108.2016 [hep-ex]].

1395. G. Aad *et al.* [ATLAS Collaboration], "Search for dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. Lett. **107**, 272002 (2011) doi:10.1103/PhysRevLett.107.272002 [arXiv:1108.1582 [hep-ex]].

1396. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," Phys. Lett. B **705**, 28 (2011) doi:10.1016/j.physletb.2011.09.093 [arXiv:1108.1316 [hep-ex]].

1397. G. Aad *et al.* [ATLAS Collaboration], "Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1110**, 107 (2011) doi:10.1007/JHEP10(2011)107 [arXiv:1108.0366 [hep-ex]].

1398. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV using 35 pb^{-1} of ATLAS data," Phys. Lett. B **706**, 150 (2011) doi:10.1016/j.physletb.2011.11.010 [arXiv:1108.0253 [hep-ex]].

1399. G. Aad *et al.* [ATLAS Collaboration], "Search for neutral MSSM Higgs bosons decaying to $\tau^+\tau^-$ pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **705**, 174 (2011) doi:10.1016/j.physletb.2011.10.001 [arXiv:1107.5003 [hep-ex]].

1400. V. M. Abazov *et al.* [D0 Collaboration], "Forward-backward asymmetry in top quark-antiquark production," Phys. Rev. D **84**, 112005 (2011) doi:10.1103/PhysRevD.84.112005 [arXiv:1107.4995 [hep-ex]].

1401. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model and a fermiophobic Higgs boson in diphoton final states," Phys. Rev. Lett. **107**, 151801 (2011) doi:10.1103/PhysRevLett.107.151801 [arXiv:1107.4587 [hep-ex]].

1402. G. Aad *et al.* [ATLAS Collaboration], "Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **84**, 054001 (2011) doi:10.1103/PhysRevD.84.054001 [arXiv:1107.3311 [hep-ex]].

1403. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the transverse momentum distribution of Z/ bosons in protonproton collisions at $\sqrt{s}$=7 TeV with the ATLAS detector," Phys. Lett. B **705**, 415 (2011) doi:10.1016/j.physletb.2011.10.018 [arXiv:1107.2381 [hep-ex]].

1404. G. Aad *et al.* [ATLAS Collaboration], "Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy," Eur. Phys. J. C **71**, 1763 (2011) doi:10.1140/epjc/s10052-011-1763-6 [arXiv:1107.2092 [hep-ex]].

1405. V. M. Abazov *et al.* [D0 Collaboration], "Search for first generation leptoquark pair production in the electron + missing energy + jets final state," Phys. Rev. D **84**, 071104 (2011) doi:10.1103/PhysRevD.84.071104 [arXiv:1107.1849 [hep-ex]].

1406. G. Aad *et al.* [ATLAS Collaboration], "Measurement of dijet production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector," JHEP **1109**, 053 (2011) doi:10.1007/JHEP09(2011)053 [arXiv:1107.1641 [hep-ex]].

1407. V. M. Abazov *et al.* [D0 Collaboration], "Search for associated Higgs boson production using like charge dilepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **84**, 092002 (2011) doi:10.1103/PhysRevD.84.092002 [arXiv:1107.1268 [hep-ex]].

1408. G. Aad *et al.* [ATLAS Collaboration], "Search for Diphoton Events with Large Missing Transverse Energy with 36 pb^{-1} of 7 TeV Proton-Proton Collision Data with the ATLAS Detector," Eur. Phys. J. C **71**, 1744 (2011) doi:10.1140/epjc/s10052-011-1744-9 [arXiv:1107.0561 [hep-ex]].

1409. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the isolated di-photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **85**, 012003 (2012) doi:10.1103/PhysRevD.85.012003 [arXiv:1107.0581 [hep-ex]].

1410. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the anomalous like-sign dimuon charge asymmetry with 9 fb$^-$1 of $p\bar{p}$ collisions," Phys. Rev. D **84**, 052007 (2011) doi:10.1103/PhysRevD.84.052007 [arXiv:1106.6308 [hep-ex]].

1411. V. M. Abazov *et al.* [D0 Collaboration], "Precision measurement of the ratio B($t \to Wb$)/B($t \to Wq$) and Extraction of V_{tb}," Phys. Rev. Lett. **107**, 121802 (2011) doi:10.1103/PhysRevLett.107.121802 [arXiv:1106.5436 [hep-ex]].

1412. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Υ(1S) production cross-section in pp collisions at $\sqrt{s} = 7$ TeV in ATLAS," Phys. Lett. B **705**, 9 (2011) doi:10.1016/j.physletb.2011.09.092 [arXiv:1106.5325 [hep-ex]].

1413. G. Aad *et al.* [ATLAS Collaboration], "Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **705**, 294 (2011) doi:10.1016/j.physletb.2011.10.006 [arXiv:1106.5327 [hep-ex]].

1414. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral Minimal Supersymmetric Standard Model Higgs bosons decaying to tau pairs produced in association with b quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **107**, 121801 (2011) doi:10.1103/PhysRevLett.107.121801 [arXiv:1106.4885 [hep-ex]].

1415. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs bosons decaying to $\tau\tau$ pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **707**, 323 (2012) doi:10.1016/j.physletb.2011.12.050 [arXiv:1106.4555 [hep-ex]].

1416. G. Aad *et al.* [ATLAS Collaboration], "Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Lett. B **703**, 428 (2011) doi:10.1016/j.physletb.2011.08.042 [arXiv:1106.4495 [hep-ex]].

1417. V. M. Abazov *et al.* [D0 Collaboration], "Search for doubly-charged Higgs boson pair production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **108**, 021801 (2012) doi:10.1103/PhysRevLett.108.021801 [arXiv:1106.4250 [hep-ex]].

1418. G. Aad *et al.* [ATLAS Collaboration], "Limits on the production of the Standard Model Higgs Boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Eur. Phys. J. C **71**, 1728 (2011) doi:10.1140/epjc/s10052-011-1728-9 [arXiv:1106.2748 [hep-ex]].

1419. V. M. Abazov *et al.* [D0 Collaboration], "Bounds on an anomalous dijet resonance in W+jets production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **107**, 011804 (2011) doi:10.1103/PhysRevLett.107. [arXiv:1106.1921 [hep-ex]].

1420. V. M. Abazov *et al.* [D0 Collaboration], "Direct measurement of the mass difference between top and antitop quarks," Phys. Rev. D **84**, 052005 (2011) doi:10.1103/PhysRevD.84.052005 [arXiv:1106.2063 [hep-ex]].

1421. V. M. Abazov *et al.* [D0 Collaboration], "Measurements of inclusive W+jets production rates as a function of jet transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **705**, 200 (2011) doi:10.1016/j.physletb.2011.10.011 [arXiv:1106.1457 [hep-ex]].

1422. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Wgamma and Zgamma production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector," JHEP **1109**, 072 (2011) doi:10.1007/JHEP09(2011)072 [arXiv:1106.1592 [hep-ex]].

1423. V. M. Abazov *et al.* [D0 Collaboration], "Precise measurement of the top-quark mass from lepton+jets events at D0," Phys. Rev. D **84**, 032004 (2011) doi:10.1103/PhysRevD.84.032004 [arXiv:1105.6287 [hep-ex]].

1424. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section using dilepton events in $p\bar{p}$ collisions," Phys. Lett. B **704**, 403 (2011) doi:10.1016/j.physletb.2011.09.046 [arXiv:1105.5384 [hep-ex]].

1425. V. M. Abazov *et al.* [D0 Collaboration], "Model-independent measurement of t-channel single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **705**, 313 (2011) doi:10.1016/j.physletb.2011.10.035 [arXiv:1105.2788 [hep-ex]].

1426. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the production fraction times branching fraction $f(b \to \Lambda_b) \cdot \mathcal{B}(*_{\lfloor} \to \mathcal{J}/\psi *)$," Phys. Rev. D **84**, 031102 (2011) doi:10.1103/PhysRevD.84.031102 [arXiv:1105.0690 [hep-ex]].

1427. V. M. Abazov *et al.* [D0 Collaboration], "Precise measurement of the top quark mass in the dilepton channel at D0," Phys. Rev. Lett. **107**, 082004 (2011) doi:10.1103/PhysRevLett.107.082004 [arXiv:1105.0320 [hep-ex]].

1428. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of spin correlation in $t\bar{t}$ production using a matrix element approach," Phys. Rev. Lett. **107**, 032001 (2011) doi:10.1103/PhysRevLett.107.032001 [arXiv:1104.5194 [hep-ex]].

1429. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the WW cross section in $\sqrt{s} = 7$ TeV pp collisions with ATLAS," Phys. Rev. Lett. **107**, 041802 (2011) doi:10.1103/PhysRevLett.107.041802 [arXiv:1104.5225 [hep-ex]].

1430. V. M. Abazov *et al.* [D0 Collaboration], "Search for a fourth generation t' quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **107**, 082001 (2011) doi:10.1103/PhysRevLett.107.082001 [arXiv:1104.4522 [hep-ex]].

1431. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of $\sin^2 \theta^{\ell}_{\rm eff}$ and Z-light quark couplings using the forward-backward charge asymmetry in $p\bar{p} \to Z/\gamma^* \to e^+e^-$ events with $\mathcal{L} = 5.0$ fb^{-1} at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **84**, 012007 (2011) doi:10.1103/PhysRevD.84.012007 [arXiv:1104.4590 [hep-ex]].

1432. G. Aad *et al.* [ATLAS Collaboration], "Search for Contact Interactions in Dimuon Events from pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector," Phys. Rev. D **84**, 011101 (2011) doi:10.1103/PhysRevD.84.011101 [arXiv:1104.4398 [hep-ex]].

1433. G. Aad *et al.* [ATLAS Collaboration], "Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC," Phys. Rev. D **83**, 112006 (2011) doi:10.1103/PhysRevD.83.112006 [arXiv:1104.4481 [hep-ex]].

1434. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s} = 7$ TeV," Nucl. Phys. B **850**, 387 (2011) doi:10.1016/j.nuclphysb.2011.05.015 [arXiv:1104.3038 [hep-ex]].

1435. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ZZ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **84**, 011103 (2011) doi:10.1103/PhysRevD.84.011103 [arXiv:1104.3078 [hep-ex]].

1436. V. M. Abazov *et al.* [D0 Collaboration], "Determination of the pole and $\overline{MS}$ masses of the top quark from the $t\bar{t}$ cross section," Phys. Lett. B **703**, 422 (2011) doi:10.1016/j.physletb.2011.08.015 [arXiv:1104.2887 [hep-ex]].

1437. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of three-jet differential cross sections $d\sigma_{3\rm jet}/dM_{3\rm jet}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **704**, 434 (2011) doi:10.1016/j.physletb.2011.09.048 [arXiv:1104.1986 [hep-ex]].

1438. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the Inelastic Proton-Proton Cross-Section at $\sqrt{s} = 7$ TeV with the ATLAS Detector," Nature Commun. **2**, 463 (2011) doi:10.1038/ncomms1472 [arXiv:1104.0326 [hep-ex]].

1439. G. Aad *et al.* [ATLAS Collaboration], "Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS detector," Eur. Phys. J. C **71**, 1647 (2011) doi:10.1140/epjc/s10052-011-1647-9 [arXiv:1103.6208 [hep-ex]].

1440. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS experiment," Eur. Phys. J. C **71**, 1682 (2011) doi:10.1140/epjc/s10052-011-1682-6 [arXiv:1103.6214 [hep-ex]].

1441. G. Aad *et al.* [ATLAS Collaboration], "Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment," Phys. Lett. B **700**, 163 (2011) doi:10.1016/j.physletb.2011.04.044 [arXiv:1103.6218 [hep-ex]].

1442. G. Aad *et al.* [ATLAS Collaboration], "Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC," Phys. Rev. Lett. **106**, 251801 (2011) doi:10.1103/PhysRevLett.106.251801 [arXiv:1103.5559 [hep-ex]].

1443. V. M. Abazov *et al.* [D0 Collaboration], "Search for flavor changing neutral currents in decays of top quarks," Phys. Lett. B **701**, 313 (2011) doi:10.1016/j.physletb.2011.06.014 [arXiv:1103.4574 [hep-ex]].

1444. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry in pp collisions at $\sqrt{s} = 7$TeV in final states with missing transverse momentum and b-jets," Phys. Lett. B **701**, 398 (2011) doi:10.1016/j.physletb.2011.06.015 [arXiv:1103.4344 [hep-ex]].

1445. G. Aad *et al.* [ATLAS Collaboration], "Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector," New J. Phys. **13**, 053044 (2011) doi:10.1088/1367-2630/13/5/053044 [arXiv:1103.3864 [hep-ex]].

1446. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the W charge asymmetry in the $W \to \mu\nu$ decay mode in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **701**, 31 (2011) doi:10.1016/j.physletb.2011.05.024 [arXiv:1103.2929 [hep-ex]].

1447. G. Aad *et al.* [ATLAS Collaboration], "Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC," Phys. Lett. B **701**, 1 (2011) doi:10.1016/j.physletb.2011.05.010 [arXiv:1103.1984 [hep-ex]].

1448. G. Aad *et al.* [ATLAS Collaboration], "Measurements of underlying-event properties using neutral and charged particles in pp collisions at 900 GeV and 7 TeV with the ATLAS detector at the LHC," Eur. Phys. J. C **71**, 1636 (2011) doi:10.1140/epjc/s10052-011-1636-z [arXiv:1103.1816 [hep-ex]].

1449. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of spin correlation in $t\bar{t}$ production using dilepton final states," Phys. Lett. B **702**, 16 (2011) doi:10.1016/j.physletb.2011.05.077 [arXiv:1103.1871 [hep-ex]].

1450. G. Aad *et al.* [ATLAS Collaboration], "Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **701**, 50 (2011) doi:10.1016/j.physletb.2011.05.043 [arXiv:1103.1391 [hep-ex]].

1451. G. Aad *et al.* [ATLAS Collaboration], "Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions," Phys. Lett. B **701**, 186 (2011) doi:10.1016/j.physletb.2011.05.061 [arXiv:1102.5290 [hep-ex]].

1452. G. Aad *et al.* [ATLAS Collaboration], "Measurement of Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV," Phys. Rev. Lett. **106**, 172002 (2011) doi:10.1103/PhysRevLett.106.172002 [arXiv:1102.2696 [hep-ex]].

1453. G. Aad *et al.* [ATLAS Collaboration], "Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp," Phys. Rev. Lett. **106**, 131802 (2011) doi:10.1103/PhysRevLett.106.131802 [arXiv:1102.2357 [hep-ex]].

1454. G. Aad *et al.* [ATLAS Collaboration], "Search for Massive Long-lived Highly Ionising Particles with the ATLAS Detector at the LHC," Phys. Lett. B **698**, 353 (2011) doi:10.1016/j.physletb.2011.03.033 [arXiv:1102.0459 [hep-ex]].

1455. V. M. Abazov *et al.* [D0 Collaboration], "Search for the Standard Model Higgs Boson in the $H \to WW \to \ell\nu q'\bar{q}$ Decay Channel," Phys. Rev. Lett. **106**, 171802 (2011) doi:10.1103/PhysRevLett.106.171802 [arXiv:1101.6079 [hep-ex]].

1456. G. Aad *et al.* [ATLAS Collaboration], "Luminosity Determination in pp Collisions at $\sqrt{s} = 7$ TeV Using the ATLAS Detector at the LHC," Eur. Phys. J. C **71**, 1630 (2011) doi:10.1140/epjc/s10052-011-1630-5 [arXiv:1101.2185 [hep-ex]].

1457. V. M. Abazov *et al.* [D0 Collaboration], "Azimuthal decorrelations and multiple parton interactions in γ+2 jet and γ+3 jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **83**, 052008 (2011) doi:10.1103/PhysRevD.83.052008 [arXiv:1101.1509 [hep-ex]].

1458. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark pair production cross section in the lepton+jets channel in proton-antiproton collisions at $\sqrt{s}$=1.96 TeV," Phys. Rev. D **84**, 012008 (2011) doi:10.1103/PhysRevD.84.012008 [arXiv:1101.0124 [hep-ex]].

1459. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of color flow in $\mathbf{t\bar{t}}$ events from $\mathbf{p\bar{p}}$ collisions at $\sqrt{\mathbf{s}} = \mathbf{1.96}$ TeV," Phys. Rev. D **83**, 092002 (2011) doi:10.1103/PhysRevD.83.092002 [arXiv:1101.0648 [hep-ex]].

1460. V. M. Abazov *et al.* [D0 Collaboration], "Search for $W' \to tb$ resonances with left- and right-handed couplings to fermions," Phys. Lett. B **699**, 145 (2011) doi:10.1016/j.physletb.2011.03.066 [arXiv:1101.0806 [hep-ex]].

1461. G. Aad *et al.* [ATLAS Collaboration], "Study of Jet Shapes in Inclusive Jet Production in pp Collisions at $\sqrt{s} = 7$ TeV using the ATLAS Detector," Phys. Rev. D **83**, 052003 (2011) doi:10.1103/PhysRevD.83.052003 [arXiv:1101.0070 [hep-ex]].

1462. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the production cross section for W-bosons in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Lett. B **698**, 325 (2011) doi:10.1016/j.physletb.2011.03.012 [arXiv:1012.5382 [hep-ex]].

1463. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the centrality dependence of J/ yields and observation of Z production in leadlead collisions with the ATLAS detector at the LHC," Phys. Lett. B **697**, 294 (2011) doi:10.1016/j.physletb.2011.02.006 [arXiv:1012.5419 [hep-ex]].

1464. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," Phys. Rev. D **83**, 052005 (2011) doi:10.1103/PhysRevD.83.052005 [arXiv:1012.4389 [hep-ex]].

1465. G. Aad *et al.* [ATLAS Collaboration], "Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC," New J. Phys. **13**, 053033 (2011) doi:10.1088/1367-2630/13/5/053033 [arXiv:1012.5104 [hep-ex]].

1466. G. Aad *et al.* [ATLAS Collaboration], "Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector," Phys. Rev. Lett. **106**, 121803 (2011) doi:10.1103/PhysRevLett.106.121803 [arXiv:1012.4272 [hep-ex]].

1467. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV," Eur. Phys. J. C **71**, 1577 (2011) doi:10.1140/epjc/s10052-011-1577-6 [arXiv:1012.1792 [hep-ex]].

1468. V. M. Abazov *et al.* [D0 Collaboration], "Search for WH associated production in 5.3 fb^{-1} of $p\bar{p}$ collisions at the Fermilab Tevatron," Phys. Lett. B **698**, 6 (2011) doi:10.1016/j.physletb.2011.02.036 [arXiv:1012.0874 [hep-ex]].

1469. G. Aad *et al.* [ATLAS Collaboration], "Measurement of underlying event characteristics using charged particles in pp collisions at $\sqrt{s} = 900GeV$ and 7 TeV with the ATLAS detector," Phys. Rev. D **83**, 112001 (2011) doi:10.1103/PhysRevD.83.112001 [arXiv:1012.0791 [hep-ex]].

1470. G. Aad *et al.* [ATLAS Collaboration], "Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at $\sqrt{s_{NN}} = 2.77$ TeV with the ATLAS Detector at the LHC," Phys. Rev. Lett. **105**, 252303 (2010) doi:10.1103/PhysRevLett.105.252303 [arXiv:1011.6182 [hep-ex]].

1471. V. M. Abazov *et al.* [D0 Collaboration], "Search for resonant WW and WZ production in $p\bar{p}$ collisions at ?s = 1.96 TeV," Phys. Rev. Lett. **107**, 011801 (2011) doi:10.1103/PhysRevLett.107.011801 [arXiv:1011.6278 [hep-ex]].

1472. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W boson helicity in top quark decays using 5.4 fb^{-1} of $p\bar{p}$ collision data," Phys. Rev. D **83**, 032009 (2011) doi:10.1103/PhysRevD.83.032009 [arXiv:1011.6549 [hep-ex]].

1473. G. Aad *et al.* [ATLAS Collaboration], "Studies of the performance of the ATLAS detector using cosmic-ray muons," Eur. Phys. J. C **71**, 1593 (2011) doi:10.1140/epjc/s10052-011-1593-6 [arXiv:1011.6665 [physics.ins-det]].

1474. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral Higgs bosons in the multi-b-jet topology in 5.2fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **698**, 97 (2011) doi:10.1016/j.physletb.2011.02.062 [arXiv:1011.1931 [hep-ex]].

1475. V. M. Abazov *et al.* [D0 Collaboration], "A measurement of the ratio of inclusive cross sections $\sigma(p\bar{p} \to Z + b\,\text{jet})/\sigma(p\bar{p} \to Z + \text{jet})$ at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **83**, 031105 (2011) doi:10.1103/PhysRevD.83.031105 [arXiv:1010.6203 [hep-ex]].

1476. G. Aad *et al.* [ATLAS Collaboration], "Measurement of the $W \to \ell\nu$ and $Z/\gamma^* \to \ell\ell$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," JHEP **1012**, 060 (2010) doi:10.1007/JHEP12(2010)060 [arXiv:1010.2130 [hep-ex]].

1477. V. M. Abazov *et al.* [D0 Collaboration], "Search for single vector-like quarks in $p\bar{p}$ collisions at sqrt(s) = 1.96 TeV," Phys. Rev. Lett. **106**, 081801 (2011) doi:10.1103/PhysRevLett.106.081801 [arXiv:1010.1466 [hep-ex]].

1478. V. M. Abazov *et al.* [D0 Collaboration], "Precise study of the Z/γ^* boson transverse momentum distribution in $p\bar{p}$ collisions using a novel technique," Phys. Rev. Lett. **106**, 122001 (2011) doi:10.1103/PhysRevLett.106.122001 [arXiv:1010.0262 [hep-ex]].

1479. G. Aad *et al.* [ATLAS Collaboration], "Search for quark contact interactions in dijet angular distributions in pp collisions at $\sqrt{s} = 7$ TeV measured with the ATLAS detector," Phys. Lett. B **694**, 327 (2011) doi:10.1016/j.physletb.2010.10.021 [arXiv:1009.5069 [hep-ex]].

1480. V. M. Abazov *et al.* [D0 Collaboration], "Determination of the width of the top quark," Phys. Rev. Lett. **106**, 022001 (2011) doi:10.1103/PhysRevLett.106.022001 [arXiv:1009.5686 [hep-ex]].

1481. G. Aad *et al.* [ATLAS Collaboration], "Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector," Eur. Phys. J. C **71**, 1512 (2011) doi:10.1140/epjc/s10052-010-1512-2 [arXiv:1009.5908 [hep-ex]].

1482. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of the scalar top quark in the electron+muon final state," Phys. Lett. B **696**, 321 (2011) doi:10.1016/j.physletb.2010.12.052 [arXiv:1009.5950 [hep-ex]].

1483. V. M. Abazov *et al.* [D0 Collaboration], "High mass exclusive diffractive dijet production in $\mathbf{p\bar{p}}$ collisions at $\sqrt{\mathbf{s}} = 1.96$ TeV," Phys. Lett. B **705**, 193 (2011) doi:10.1016/j.physletb.2011.10.013 [arXiv:1009.2444 [hep-ex]].

1484. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of $t\bar{t}$ production in the tau + jets topology using $p\bar{p}$ collisions at sqrts = 1.96 TeV," Phys. Rev. D **82**, 071102 (2010) doi:10.1103/PhysRevD.82.071102 [arXiv:1008.4284 [hep-ex]].

1485. V. M. Abazov *et al.* [D0 Collaboration], "Search for $ZH \to \ell^+\ell^- b\bar{b}$ production in 4.2 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **105**, 251801 (2010) doi:10.1103/PhysRevLett.105.251801 [arXiv:1008.3564 [hep-ex]].

1486. V. M. Abazov *et al.* [D0 Collaboration], "Search for New Fermions ('Quirks') at the Fermilab Tevatron Collider," Phys. Rev. Lett. **105**, 211803 (2010) doi:10.1103/PhysRevLett.105.211803 [arXiv:1008.3547 [hep-ex]].

1487. V. M. Abazov *et al.* [D0 Collaboration], "Search for events with leptonic jets and missing transverse energy in $\mathbf{p\bar{p}}$ collisions at $\sqrt{\mathbf{s}} = \mathbf{1.96}$ TeV," Phys. Rev. Lett. **105**, 211802 (2010) doi:10.1103/PhysRevLett.105.211802 [arXiv:1008.3356 [hep-ex]].

1488. G. Aad *et al.* [ATLAS Collaboration], "Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC," Phys. Rev. Lett. **105**, 161801 (2010) doi:10.1103/PhysRevLett.105.161801 [arXiv:1008.2461 [hep-ex]].

1489. V. M. Abazov *et al.* [D0 Collaboration], "Search for a heavy neutral gauge boson in the dielectron channel with 5.4 fb-1 of $p\bar{p}$ collisions at sqrt(s) = 1.96 TeV," Phys. Lett. B **695**, 88 (2011) doi:10.1016/j.physletb.2010.10.059 [arXiv:1008.2023 [hep-ex]].

1490. V. M. Abazov *et al.* [D0 Collaboration], "Search for diphoton events with large missing transverse energy in 6.3 fb^{-1} of $\mathbf{p\bar{p}}$ collisions at $\sqrt{\mathbf{s}} = \mathbf{1.96}$ TeV," Phys. Rev. Lett. **105**, 221802 (2010) doi:10.1103/PhysRevLett.105.221802 [arXiv:1008.2133 [hep-ex]].

1491. G. Aad *et al.* [ATLAS Collaboration], "Readiness of the ATLAS Tile Calorimeter for LHC collisions," Eur. Phys. J. C **70**, 1193 (2010) doi:10.1140/epjc/s10052-010-1508-y [arXiv:1007.5423 [physics.ins-det]].

1492. V. M. Abazov *et al.* [D0 Collaboration], "Search for sneutrino production in emu final states in 5.3 fb^{-1} of $p\bar{p}$ collisions at sqrt(s) =1.96 TeV," Phys. Rev. Lett. **105**, 191802 (2010) doi:10.1103/PhysRevLett.105.191802 [arXiv:1007.4835 [hep-ex]].

1493. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for an anomalous like-sign dimuon charge asymmetry," Phys. Rev. Lett. **105**, 081801 (2010) doi:10.1103/PhysRevLett.105.081801 [arXiv:1007.0395 [hep-ex]].

1494. G. Aad *et al.* [ATLAS Collaboration], "Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays," Eur. Phys. J. C **70**, 875 (2010) doi:10.1140/epjc/s10052-010-1415-2 [arXiv:1006.4384 [physics.ins-det]].

1495. V. M. Abazov *et al.* [D0 Collaboration], "Search for flavor changing neutral currents via quark-gluon couplings in single top quark production using 2.3 fb^{-1} of $p\bar{p}$ collisions," Phys. Lett. B **693**, 81 (2010) doi:10.1016/j.physletb.2010.08.011 [arXiv:1006.3575 [hep-ex]].

1496. V. M. Abazov *et al.* [D0 Collaboration], "Search for the rare decay $B_s^0 \to \mu^+\mu^-$," Phys. Lett. B **693**, 539 (2010) doi:10.1016/j.physletb.2010.09.024 [arXiv:1006.3469 [hep-ex]].

1497. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $WZ \to \ell\nu\ell\ell$ cross section and limits on anomalous triple gauge couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **695**, 67 (2011) doi:10.1016/j.physletb.2010.10.047 [arXiv:1006.0761 [hep-ex]].

1498. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the normalized $Z/\gamma^* - > \mu^+\mu^-$ transverse momentum distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **693**, 522 (2010) doi:10.1016/j.physletb.2010.09.012 [arXiv:1006.0618 [hep-ex]].

1499. G. Aad *et al.* [ATLAS Collaboration], "Performance of the ATLAS Detector using First Collision Data," JHEP **1009**, 056 (2010) doi:10.1007/JHEP09(2010)056 [arXiv:1005.5254 [hep-ex]].

1500. G. Aad *et al.* [ATLAS Collaboration], "The ATLAS Simulation Infrastructure," Eur. Phys. J. C **70**, 823 (2010) doi:10.1140/epjc/s10052-010-1429-9 [arXiv:1005.4568 [physics.ins-det]].

1501. V. M. Abazov *et al.* [D0 Collaboration], "Search for scalar bottom quarks and third-generation leptoquarks in pp^- bar collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **693**, 95 (2010) doi:10.1016/j.physletb.2010.08.0 [arXiv:1005.2222 [hep-ex]].

1502. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for an anomalous like-sign dimuon charge asymmetry," Phys. Rev. D **82**, 032001 (2010) doi:10.1103/PhysRevD.82.032001 [arXiv:1005.2757 [hep-ex]].

1503. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Combined Tevatron upper limit on $gg \to H \to W^+W^-$ and constraints on the Higgs boson mass in fourth-generation fermion models," Phys. Rev. D **82**, 011102 (2010) doi:10.1103/PhysRevD.82.011102 [arXiv:1005.3216 [hep-ex]].

1504. S. N. Ahmed *et al.* [D0 Collaboration], "The D0 Silicon Microstrip Tracker," Nucl. Instrum. Meth. A **634**, 8 (2011) doi:10.1016/j.nima.2010.11.121 [arXiv:1005.0801 [physics.ins-det]].

1505. G. Aad *et al.* [ATLAS Collaboration], "The ATLAS Inner Detector commissioning and calibration," Eur. Phys. J. C **70**, 787 (2010) doi:10.1140/epjc/s10052-010-1366-7 [arXiv:1004.5293 [physics.ins-det]].

1506. V. M. Abazov *et al.* [D0 Collaboration], "Search for Randall-Sundrum gravitons in the dielectron and diphoton final states with 5.4 fb-1 of data from $p\bar{p}$ collisions at sqrt(s)=1.96 TeV," Phys. Rev. Lett. **104**, 241802 (2010) doi:10.1103/PhysRevLett.104.241802 [arXiv:1004.1826 [hep-ex]].

1507. G. Aad *et al.* [ATLAS Collaboration], "Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV measured with the ATLAS detector at the LHC," Phys. Lett. B **688**, 21 (2010) doi:10.1016/j.physletb.2010.03.064 [arXiv:1003.3124 [hep-ex]].

1508. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of direct photon pair production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **690**, 108 (2010) doi:10.1016/j.physletb.2010.05.017 [arXiv:1002.4917 [hep-ex]].

1509. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the dijet invariant mass cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **693**, 531 (2010) doi:10.1016/j.physletb.2010.09.013 [arXiv:1002.4594 [hep-ex]].

1510. G. Aad *et al.* [ATLAS Collaboration], "Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons," Eur. Phys. J. C **70**, 755 (2010) doi:10.1140/epjc/s10052-010-1403-6 [arXiv:1002.4189 [physics.ins-det]].

1511. V. M. Abazov *et al.* [D0 Collaboration], "b-Jet Identification in the D0 Experiment," Nucl. Instrum. Meth. A **620**, 490 (2010) doi:10.1016/j.nima.2010.03.118 [arXiv:1002.4224 [hep-ex]].

1512. T. Aaltonen *et al.* [CDF and D0 Collaborations], "Combination of Tevatron searches for the standard model Higgs boson in the W+W- decay mode," Phys. Rev. Lett. **104**, 061802 (2010) doi:10.1103/PhysRevLett.104.061802 [arXiv:1001.4162 [hep-ex]].

1513. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs boson production in dilepton and missing energy final states with 5.4 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **104**, 061804 (2010) doi:10.1103/PhysRevLett.104.061804 [arXiv:1001.4481 [hep-ex]].

1514. V. M. Abazov *et al.* [D0 Collaboration], "Dependence of the $t\bar{t}$ production cross section on the transverse momentum of the top quark," Phys. Lett. B **693**, 515 (2010) doi:10.1016/j.physletb.2010.09.011 [arXiv:1001.1900 [hep-ex]].

1515. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in the ZH —¿ v v-bar b b-bar channel in 5.2 fb**-1 of p p-bar collisions at s**(1/2) = 1.96-TeV," Phys. Rev. Lett. **104**, 071801 (2010) doi:10.1103/PhysRevLett.104.071801 [arXiv:0912.5285 [hep-ex]].

1516. V. M. Abazov *et al.* [D0 Collaboration], "Double parton interactions in γ+3 jet events in pp^- bar collisions $\sqrt{s} = 1.96$ TeV.," Phys. Rev. D **81**, 052012 (2010) doi:10.1103/PhysRevD.81.052012 [arXiv:0912.5104 [hep-ex]].

1517. G. Aad *et al.* [ATLAS Collaboration], "Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions," Eur. Phys. J. C **70**, 723 (2010) doi:10.1140/epjc/s10052-010-1354-y [arXiv:0912.2642 [physics.ins-det]].

1518. V. M. Abazov *et al.* [D0 Collaboration], "Search for single top quarks in the tau+jets channel using 4.8 fb**-1 of p p-bar collision data," Phys. Lett. B **690**, 5 (2010) doi:10.1016/j.physletb.2010.05.003 [arXiv:0912.1066 [hep-ex]].

1519. V. M. Abazov *et al.* [D0 Collaboration], "Search for the associated production of a b quark and a neutral supersymmetric Higgs boson which decays to tau pairs," Phys. Rev. Lett. **104**, 151801 (2010) doi:10.1103/PhysRevLett.104.151801 [arXiv:0912.0968 [hep-ex]].

1520. V. M. Abazov *et al.* [D0 Collaboration], "Search for a resonance decaying into WZ boson pairs in $p\bar{p}$ collisions," Phys. Rev. Lett. **104**, 061801 (2010) doi:10.1103/PhysRevLett.104.061801 [arXiv:0912.0715 [hep-ex]].

1521. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ cross section using high-multiplicity jet events," Phys. Rev. D **82**, 032002 (2010) doi:10.1103/PhysRevD.82.032002 [arXiv:0911.4286 [hep-ex]].

1522. V. M. Abazov *et al.* [D0 Collaboration], "Determination of the strong coupling constant from the inclusive jet cross section in $p\bar{p}$ collisions at sqrt(s)=1.96 TeV," Phys. Rev. D **80**, 111107 (2009) doi:10.1103/PhysRevD.80.111107 [arXiv:0911.2710 [hep-ex]].

1523. V. M. Abazov *et al.* [D0 Collaboration], "Direct measurement of the W boson width," Phys. Rev. Lett. **103**, 231802 (2009) doi:10.1103/PhysRevLett.103.231802 [arXiv:0909.4814 [hep-ex]].

1524. V. M. Abazov *et al.* [D0 Collaboration], "Search for Charged Higgs Bosons in Top Quark Decays," Phys. Lett. B **682**, 278 (2009) doi:10.1016/j.physletb.2009.11.016 [arXiv:0908.1811 [hep-ex]].

1525. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W boson mass," Phys. Rev. Lett. **103**, 141801 (2009) doi:10.1103/PhysRevLett.103.141801 [arXiv:0908.0766 [hep-ex]].

1526. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of trilinear gauge boson couplings from WW + WZ —¿ l nu j j events in p anti-p collisions at s**(1/2) = 1.96 TeV," Phys. Rev. D **80**, 053012 (2009) doi:10.1103/PhysRevD.80.053012 [arXiv:0907.4398 [hep-ex]].

1527. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of Z/gamma*+jet+X angular distributions in p anti-p collisions at s**(1/2) = 1.96.TeV," Phys. Lett. B **682**, 370 (2010) doi:10.1016/j.physletb.2009.11.012 [arXiv:0907.4286 [hep-ex]].

1528. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the t-channel single top quark production cross section," Phys. Lett. B **682**, 363 (2010) doi:10.1016/j.physletb.2009.11.038 [arXiv:0907.4259 [hep-ex]].

1529. V. M. Abazov *et al.* [D0 Collaboration], "A Novel method for modeling the recoil in W boson events at hadron collider," Nucl. Instrum. Meth. A **609**, 250 (2009) doi:10.1016/j.nima.2009.08.056 [arXiv:0907.3713 [hep-ex]].

1530. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of first-generation leptoquarks in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Lett. B **681**, 224 (2009) doi:10.1016/j.physletb.2009.10.016 [arXiv:0907.1048 [hep-ex]].

1531. V. M. Abazov *et al.* [D0 Collaboration], "Search for charged Higgs bosons in decays of top quarks," Phys. Rev. D **80**, 051107 (2009) doi:10.1103/PhysRevD.80.051107 [arXiv:0906.5326 [hep-ex]].

1532. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of dijet angular distributions at s**(1/2) = 1.96-TeV and searches for quark compositeness and extra spatial dimensions," Phys. Rev. Lett. **103**, 191803 (2009) doi:10.1103/PhysRevLett.103.191803 [arXiv:0906.4819 [hep-ex]].

1533. V. M. Abazov *et al.* [D0 Collaboration], "Search for Resonant Pair Production of long-lived particles decaying to b anti-b in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Rev. Lett. **103**, 071801 (2009) doi:10.1103/PhysRevLett.103.071801 [arXiv:0906.1787 [hep-ex]].

1534. V. M. Abazov *et al.* [D0 Collaboration], "Direct measurement of the mass difference between top and antitop quarks," Phys. Rev. Lett. **103**, 132001 (2009) doi:10.1103/PhysRevLett.103.132001 [arXiv:0906.1172 [hep-ex]].

1535. V. M. Abazov *et al.* [D0 Collaboration], "Search for squark production in events with jets, hadronically decaying tau leptons and missing transverse energy at s**(1/2) = 1.96-TeV," Phys. Lett. B **680**, 24 (2009) doi:10.1016/j.physletb.2009.08.002 [arXiv:0905.4086 [hep-ex]].

1536. V. M. Abazov *et al.* [D0 Collaboration], "Search for NMSSM Higgs bosons in the h —¿ aa —¿ mu mu mu mu, mu mu tau tau channels using p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Rev. Lett. **103**, 061801 (2009) doi:10.1103/PhysRevLett.103.061801 [arXiv:0905.3381 [hep-ex]].

1537. V. M. Abazov *et al.* [D0 Collaboration], "Search for dark photons from supersymmetric hidden valleys," Phys. Rev. Lett. **103**, 081802 (2009) doi:10.1103/PhysRevLett.103.081802 [arXiv:0905.1478 [hep-ex]].

1538. V. M. Abazov *et al.* [D0 Collaboration], "Search for CP violation in $B_s^0 \to \mu^+ D_s^- X$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. D **82**, 012003 (2010) [Phys. Rev. D **83**, 119901 (2011)] doi:10.1103/PhysRevD.82.012003, 10.1103/PhysRevD.83.119901 [arXiv:0904.3907 [hep-ex]].

1539. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Top Quark Mass in Final States with Two Leptons," Phys. Rev. D **80**, 092006 (2009) doi:10.1103/PhysRevD.80.092006 [arXiv:0904.3195 [hep-ex]].

1540. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the WW production cross section with dilepton final states in p anti-p collisions at s**(1/2) = 1.96-TeV and limits on anomalous trilinear gauge couplings," Phys. Rev. Lett. **103**, 191801 (2009) doi:10.1103/PhysRevLett.103.191801 [arXiv:0904.0673 [hep-ex]].

1541. V. M. Abazov *et al.* [D0 Collaboration], "Combination of t anti-t cross section measurements and constraints on the mass of the top quark and its decays into charged Higgs bosons," Phys. Rev. D **80**, 071102 (2009) doi:10.1103/PhysRevD.80.071102 [arXiv:0903.5525 [hep-ex]].

1542. V. M. Abazov *et al.* [D0 Collaboration], "Search for the standard model Higgs boson in tau final states," Phys. Rev. Lett. **102**, 251801 (2009) doi:10.1103/PhysRevLett.102.251801 [arXiv:0903.4800 [hep-ex]].

1543. V. M. Abazov *et al.* [D0 Collaboration], "Measurements of differential cross sections of Z/gamma*+jets+X events in proton anti-proton collisions at s**(1/2) = 1.96-TeV," Phys. Lett. B **678**, 45 (2009) doi:10.1016/j.physletb.2009.05.058 [arXiv:0903.1748 [hep-ex]].

1544. V. M. Abazov *et al.* [D0 Collaboration], "Observation of Single Top Quark Production," Phys. Rev. Lett. **103**, 092001 (2009) doi:10.1103/PhysRevLett.103.092001 [arXiv:0903.0850 [hep-ex]].

1545. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Z gamma —¿ nu anti-nu gamma cross section and limits on anomalous Z Z gamma and Z gamma gamma couplings in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Rev. Lett. **102**, 201802 (2009) doi:10.1103/PhysRevLett.102.201802 [arXiv:0902.2157 [hep-ex]].

1546. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the t anti-t production cross section and top quark mass extraction using dilepton events in p anti-p collisions," Phys. Lett. B **679**, 177 (2009) doi:10.1016/j.physletb.2009.07.032 [arXiv:0901.2137 [hep-ex]].

1547. V. M. Abazov *et al.* [D0 Collaboration], "Search for Resonant Diphoton Production with the D0 Detector," Phys. Rev. Lett. **102**, 231801 (2009) doi:10.1103/PhysRevLett.102.231801 [arXiv:0901.1887 [hep-ex]].

1548. V. M. Abazov *et al.* [D0 Collaboration], "Search for admixture of scalar top quarks in the t anti-t lepton+jets final state at s**(1/2) = 1.96-TeV," Phys. Lett. B **674**, 4 (2009) doi:10.1016/j.physletb.2009.02.027 [arXiv:0901.1063 [hep-ex]].

1549. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of gamma + b + X and gamma + c + X production cross sections in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Rev. Lett. **102**, 192002 (2009) doi:10.1103/PhysRevLett.102.192002 [arXiv:0901.0739 [hep-ex]].

1550. V. M. Abazov *et al.* [D0 Collaboration], "Search for associated production of charginos and neutralinos in the trilepton final state using 2.3 fb^{-1} of data," Phys. Lett. B **680**, 34 (2009) doi:10.1016/j.physletb.2009.08.011 [arXiv:0901.0646 [hep-ex]].

1551. V. M. Abazov *et al.* [D0 Collaboration], "Search for anomalous top quark couplings with the D0 detector," Phys. Rev. Lett. **102**, 092002 (2009) doi:10.1103/PhysRevLett.102.092002 [arXiv:0901.0151 [hep-ex]].

1552. G. Aad *et al.*, "ATLAS pixel detector electronics and sensors," JINST **3**, P07007 (2008). doi:10.1088/1748-0221/3/07/P07007

1553. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for decay $B_s^0 \to D_s^{(*)} D_s^{(*)}$ and a measurement of $\Delta\Gamma_s^{CP}/\Gamma_s$," Phys. Rev. Lett. **102**, 091801 (2009) doi:10.1103/PhysRevLett.102.091801 [arXiv:0811.2173 [hep-ex]].

1554. V. M. Abazov *et al.* [D0 Collaboration], "Search for the lightest scalar top quark in events with two leptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **675**, 289 (2009) doi:10.1016/j.physletb.2009.04.039 [arXiv:0811.0459 [hep-ex]].

1555. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral Higgs bosons at high $\tan\beta$ in the $b(h/H/A) \to b\tau^+\tau^-$ channel," Phys. Rev. Lett. **102**, 051804 (2009) doi:10.1103/PhysRevLett.102.051804 [arXiv:0811.0024 [hep-ex]].

1556. V. M. Abazov *et al.* [D0 Collaboration], "Evidence of $WW + WZ$ production with lepton + jets final states in proton-antiproton collisions at $\sqrt{s}$ =1.96 TeV," Phys. Rev. Lett. **102**, 161801 (2009) doi:10.1103/PhysRevLett.102.161801 [arXiv:0810.3873 [hep-ex]].

1557. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the angular and lifetime parameters of the decays $B_d^0 \to J/\psi K^{*0}$ and $B_s^0 \to J/\psi\phi$," Phys. Rev. Lett. **102**, 032001 (2009) doi:10.1103/PhysRevLett.102.032001 [arXiv:0810.0037 [hep-ex]].

1558. V. M. Abazov *et al.* [D0 Collaboration], "Search for Long-Lived Charged Massive Particles with the D0 Detector," Phys. Rev. Lett. **102**, 161802 (2009) doi:10.1103/PhysRevLett.102.161802 [arXiv:0809.4472 [hep-ex]].

1559. G. Aad *et al.* [ATLAS Collaboration], "The ATLAS Experiment at the CERN Large Hadron Collider," JINST **3**, S08003 (2008). doi:10.1088/1748-0221/3/08/S08003

1560. V. M. Abazov *et al.* [D0 Collaboration], "Search for Large extra spatial dimensions in the dielectron and diphoton channels in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **102**, 051601 (2009) doi:10.1103/PhysRevLett.102.051601 [arXiv:0809.2813 [hep-ex]].

1561. V. M. Abazov *et al.* [D0 Collaboration], "Observation of the doubly strange b baryon Ω_b^-," Phys. Rev. Lett. **101**, 232002 (2008) doi:10.1103/PhysRevLett.101.232002 [arXiv:0808.4142 [hep-ex]].

1562. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of second generation scalar leptoquarks," Phys. Lett. B **671**, 224 (2009) doi:10.1016/j.physletb.2008.12.017 [arXiv:0808.4023 [hep-ex]].

1563. V. M. Abazov *et al.* [D0 Collaboration], "A Search for associated W and Higgs Boson production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **102**, 051803 (2009) doi:10.1103/PhysRevLett.102.051803 [arXiv:0808.1970 [hep-ex]].

1564. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of $\sigma(p\bar{p} \to Z+X)$ Br$(Z \to \tau^+\tau^-)$ at $\sqrt{s}$ = 1.96-TeV," Phys. Lett. B **670**, 292 (2009) doi:10.1016/j.physletb.2008.11.010 [arXiv:0808.1306 [hep-ex]].

1565. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of differential $Z/\gamma^* + \text{jet} + X$ cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **669**, 278 (2008) doi:10.1016/j.physletb.2008.09.060 [arXiv:0808.1296 [hep-ex]].

1566. V. M. Abazov *et al.* [D0 Collaboration], "A search for the standard model Higgs boson in the missing energy and acoplanar b-jet topology at $\sqrt{s}$=1.96," Phys. Rev. Lett. **101**, 251802 (2008) doi:10.1103/PhysRevLett.101.251802 [arXiv:0808.1266 [hep-ex]].

1567. V. M. Abazov *et al.* [D0 Collaboration], "Observation of ZZ production in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **101**, 171803 (2008) doi:10.1103/PhysRevLett.101.171803 [arXiv:0808.0703 [hep-ex]].

1568. V. M. Abazov *et al.* [D0 Collaboration], "Search for Scalar Leptoquarks and T-odd Quarks in the Acoplanar Jet Topology using 2.5 fb^{-1} of $p\bar{p}$ Collision Data at $\sqrt{s}$ = 1.96-TeV," Phys. Lett. B **668**, 357 (2008) doi:10.1016/j.physletb.2008.09.014 [arXiv:0808.0446 [hep-ex]].

1569. V. M. Abazov *et al.* [D0 Collaboration], "$ZZ \to \ell^+\ell^-$ v anti-v production in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. D **78**, 072002 (2008) doi:10.1103/PhysRevD.78.072002 [arXiv:0808.0269 [hep-ex]].

1570. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the electron charge asymmetry in $p\bar{p} \to W + X \to e\nu + X$ events at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **101**, 211801 (2008) doi:10.1103/PhysRevLett.101.211801 [arXiv:0807.3367 [hep-ex]].

1571. V. M. Abazov *et al.* [D0 Collaboration], "Precise measurement of the top quark mass from lepton+jets events at D0," Phys. Rev. Lett. **101**, 182001 (2008) doi:10.1103/PhysRevLett.101.182001 [arXiv:0807.2141 [hep-ex]].

1572. V. M. Abazov *et al.* [D0 Collaboration], "Search for anomalous Wtb couplings in single top quark production," Phys. Rev. Lett. **101**, 221801 (2008) doi:10.1103/PhysRevLett.101.221801 [arXiv:0807.1692 [hep-ex]].

1573. V. M. Abazov *et al.* [D0 Collaboration], "Search for charged Higgs bosons decaying to top and bottom quarks in $p\bar{p}$ collisions," Phys. Rev. Lett. **102**, 191802 (2009) doi:10.1103/PhysRevLett.102.191802 [arXiv:0807.0859 [hep-ex]].

1574. V. M. Abazov *et al.* [D0 Collaboration], "Search for third generation scalar leptoquarks decaying into τb," Phys. Rev. Lett. **101**, 241802 (2008) doi:10.1103/PhysRevLett.101.241802 [arXiv:0806.3527 [hep-ex]].

1575. V. M. Abazov *et al.* [D0 Collaboration], "Search for long-lived particles decaying into electron or photon pairs with the D0 detector," Phys. Rev. Lett. **101**, 111802 (2008) doi:10.1103/PhysRevLett.101.111802 [arXiv:0806.2223 [hep-ex]].

1576. V. M. Abazov *et al.* [D0 Collaboration], "Search for a scalar or vector particle decaying into $Z\gamma$ in $p\bar{p}$ collisions at $\sqrt{s}$=1.96 TeV," Phys. Lett. B **671**, 349 (2009) doi:10.1016/j.physletb.2008.12.009 [arXiv:0806.0611 [hep-ex]].

1577. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral Higgs bosons in multi-b-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **101**, 221802 (2008) doi:10.1103/PhysRevLett.101.221802 [arXiv:0805.3556 [hep-ex]].

1578. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the lifetime of the $B_c^{\pm}$ meson in the semileptonic decay channel," Phys. Rev. Lett. **102**, 092001 (2009) doi:10.1103/PhysRevLett.102.092001 [arXiv:0805.2614 [hep-ex]].

1579. V. M. Abazov *et al.* [D0 Collaboration], "Relative rates of B meson decays into ψ_{2S} and J/ψ mesons," Phys. Rev. D **79**, 111102 (2009) doi:10.1103/PhysRevD.79.111102 [arXiv:0805.2576 [hep-ex]].

1580. V. M. Abazov *et al.* [D0 Collaboration], "Search for Higgs bosons decaying to τ pairs in $p\bar{p}$ collisions with the D0 detector," Phys. Rev. Lett. **101**, 071804 (2008) doi:10.1103/PhysRevLett.101.071804 [arXiv:0805.2491 [hep-ex]].

1581. V. M. Abazov *et al.* [D0 Collaboration], "Search for $t\bar{t}$ resonances in the lepton plus jets final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **668**, 98 (2008) doi:10.1016/j.physletb.2008.08.027 [arXiv:0804.3664 [hep-ex]].

1582. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the forward-backward charge asymmetry and extraction of $\sin^2\theta(W)_{\rm eff}$ in $p\bar{p} \to Z/\gamma^* + X \to e^+e^- + X$ events produced at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **101**, 191801 (2008) doi:10.1103/PhysRevLett.101.191801 [arXiv:0804.3220 [hep-ex]].

1583. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the polarization of the υ_{1S} and υ_{2S} states in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **101**, 182004 (2008) doi:10.1103/PhysRevLett.101.18200 [arXiv:0804.2799 [hep-ex]].

1584. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Differential Cross-Section for the Production of an Isolated Photon with Associated Jet in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **666**, 435 (2008) doi:10.1016/j.physletb.2008.06.076 [arXiv:0804.1107 [hep-ex]].

1585. V. M. Abazov *et al.* [D0 Collaboration], "Search for W' Boson Resonances Decaying to a Top Quark and a Bottom Quark," Phys. Rev. Lett. **100**, 211803 (2008) doi:10.1103/PhysRevLett.100.211803 [arXiv:0803.3256 [hep-ex]].

1586. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **100**, 192004 (2008) doi:10.1103/PhysRevLett.100.192004 [arXiv:0803.2779 [hep-ex]].

1587. V. M. Abazov *et al.* [D0 Collaboration], "Search for scalar top quarks in the acoplanar charm jets and missing transverse energy final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **665**, 1 (2008) doi:10.1016/j.physletb.2008.05.037 [arXiv:0803.2263 [hep-ex]].

1588. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of the $p\bar{p} \to W^+c^-$ jet cross section to the inclusive $p\bar{p} \to W+$ jets cross section," Phys. Lett. B **666**, 23 (2008) doi:10.1016/j.physletb.2008.06.067 [arXiv:0803.2259 [hep-ex]].

1589. V. M. Abazov *et al.* [D0 Collaboration], "Search for large extra dimensions via single photon plus missing energy final states at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **101**, 011601 (2008) doi:10.1103/PhysRevLett.101.011601 [arXiv:0803.2137 [hep-ex]].

1590. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of doubly-charged Higgs bosons in the $H^{++}H^{--} \to \mu^+\mu^+\mu^-\mu^-$ final state at D0," Phys. Rev. Lett. **101**, 071803 (2008) doi:10.1103/PhysRevLett.101.071803 [arXiv:0803.1534 [hep-ex]].

1591. V. M. Abazov *et al.* [D0 Collaboration], "Search for decay of a fermiophobic Higgs boson $h(f) \to \gamma\gamma$ with the D0 detector at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **101**, 051801 (2008) doi:10.1103/PhysRevLett.101.051801 [arXiv:0803.1514 [hep-ex]].

1592. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for production of single top quarks," Phys. Rev. D **78**, 012005 (2008) doi:10.1103/PhysRevD.78.012005 [arXiv:0803.0739 [hep-ex]].

1593. V. M. Abazov *et al.* [D0 Collaboration], "First study of the radiation-amplitude zero in $W\gamma$ production and limits on anomalous $WW\gamma$ couplings at $\sqrt{s}$ = 1.96- TeV," Phys. Rev. Lett. **100**, 241805 (2008) doi:10.1103/PhysRevLett.100.241805 [arXiv:0803.0030 [hep-ex]].

1594. V. M. Abazov *et al.* [D0 Collaboration], "Observation of the B_c Meson in the Exclusive Decay $B_c \to J/\psi\pi$," Phys. Rev. Lett. **101**, 012001 (2008) doi:10.1103/PhysRevLett.101.012001 [arXiv:0802.4258 [hep-ex]].

1595. V. M. Abazov *et al.* [D0 Collaboration], "Study of direct CP violation in $B^{\pm} \to J/\psi K^{\pm}(\pi^{\pm})$ decays," Phys. Rev. Lett. **100**, 211802 (2008) doi:10.1103/PhysRevLett.100.211802 [arXiv:0802.3299 [hep-ex]].

1596. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the inclusive jet cross-section in $p\bar{p}$ collisions at $s^{(1/2)}$ =1.96-TeV," Phys. Rev. Lett. **101**, 062001 (2008) doi:10.1103/PhysRevLett.101.062001 [arXiv:0802.2400 [hep-ex]].

1597. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of B_s^0 mixing parameters from the flavor-tagged decay $B_s^0 \to J/\psi\phi$," Phys. Rev. Lett. **101**, 241801 (2008) doi:10.1103/PhysRevLett.101.241801 [arXiv:0802.2255 [hep-ex]].

1598. V. M. Abazov *et al.* [D0 Collaboration], "Simultaneous measurement of the ratio B($t \to Wb$) /B($t \to Wq$) and the top quark pair production cross section with the D0 detector at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **100**, 192003 (2008) doi:10.1103/PhysRevLett.100.192003 [arXiv:0801.1326 [hep-ex]].

1599. V. M. Abazov *et al.* [D0 Collaboration], "Search for excited electrons in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. D **77**, 091102 (2008) doi:10.1103/PhysRevD.77.091102 [arXiv:0801.0877 [hep-ex]].

1600. V. M. Abazov *et al.* [D0 Collaboration], "Search for squarks and gluinos in events with jets and missing transverse energy using 2.1 fb^{-1} of $p\bar{p}$ collision data at $\sqrt{s}$ = 1.96- TeV," Phys. Lett. B **660**, 449 (2008) doi:10.1016/j.physletb.2008.01.042 [arXiv:0712.3805 [hep-ex]].

1601. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the B_s^0 semileptonic branching ratio to an orbitally excited D_s state, Br($B_s^0 \to D_{s1}^-(2536)\mu^+\nu X$)," Phys. Rev. Lett. **102**, 051801 (2009) doi:10.1103/PhysRevLett.102.051801 [arXiv:0712.3789 [hep-ex]].

1602. V. M. Abazov *et al.* [D0 Collaboration], "First measurement of the forward-backward charge asymmetry in top quark pair production," Phys. Rev. Lett. **100**, 142002 (2008) doi:10.1103/PhysRevLett.100.1420 [arXiv:0712.0851 [hep-ex]].

1603. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the shape of the boson transverse momentum distribution in $p\bar{p} \to Z/\gamma^* \to e^+e^- + X$ events produced at $\sqrt{s}$=1.96-TeV," Phys. Rev. Lett. **100**, 102002 (2008) doi:10.1103/PhysRevLett.100.102002 [arXiv:0712.0803 [hep-ex]].

1604. V. M. Abazov *et al.* [D0 Collaboration], "Search for ZZ and $Z\gamma^*$ production in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96 TeV and limits on anomalous ZZZ and $ZZ\gamma^*$ couplings," Phys. Rev. Lett. **100**, 131801 (2008) doi:10.1103/PhysRevLett.100.131801 [arXiv:0712.0599 [hep-ex]].

1605. V. M. Abazov *et al.* [D0 Collaboration], "A Combined search for the standard model Higgs boson at $\sqrt{s}$ = 1.96-TeV," Phys. Lett. B **663**, 26 (2008) doi:10.1016/j.physletb.2008.02.069 [arXiv:0712.0598 [hep-ex]].

1606. V. M. Abazov *et al.* [D0 Collaboration], "Search for Scalar Neutrino Superpartners in $e + \mu$ Final States in $p\bar{p}$ Collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **100**, 241803 (2008) doi:10.1103/PhysRevLett.100.241803 [arXiv:0711.3207 [hep-ex]].

1607. V. M. Abazov *et al.* [D0 Collaboration], "Model-independent measurement of the W boson helicity in top quark decays at D0," Phys. Rev. Lett. **100**, 062004 (2008) doi:10.1103/PhysRevLett.100.062004 [arXiv:0711.0032 [hep-ex]].

1608. V. M. Abazov *et al.* [D0 Collaboration], "Observation and properties of the orbitally excited B*(s2) meson," Phys. Rev. Lett. **100**, 082002 (2008) doi:10.1103/PhysRevLett.100.082002 [arXiv:0711.0319 [hep-ex]].

1609. V. M. Abazov *et al.* [D0 Collaboration], "Search for supersymmetry in di-photon final states at $\sqrt{s}$ = 1.96-TeV," Phys. Lett. B **659**, 856 (2008) doi:10.1016/j.physletb.2007.12.006 [arXiv:0710.3946 [hep-ex]].

1610. V. M. Abazov *et al.* [D0 Collaboration], "Search for Randall-Sundrum gravitons with 1 fb^{-1} of data from $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **100**, 091802 (2008) doi:10.1103/PhysRevLett.100.091802 [arXiv:0710.3338 [hep-ex]].

1611. V. M. Abazov *et al.* [D0 Collaboration], "Search for W' bosons decaying to an electron and a neutrino with the D0 detector," Phys. Rev. Lett. **100**, 031804 (2008) doi:10.1103/PhysRevLett.100.031804 [arXiv:0710.2966 [hep-ex]].

1612. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the muon charge asymmetry from W boson decays," Phys. Rev. D **77**, 011106 (2008) doi:10.1103/PhysRevD.77.011106 [arXiv:0709.4254 [hep-ex]].

1613. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $p\bar{p} \to WZ + X$ cross-section at $\sqrt{s}$ = 1.96-TeV and limits on WWZ trilinear gauge couplings," Phys. Rev. D **76**, 111104 (2007) doi:10.1103/PhysRevD.76.111104 [arXiv:0709.2917 [hep-ex]].

1614. V. M. Abazov *et al.* [D0 Collaboration], "Search for flavor-changing-neutral-current D meson decays," Phys. Rev. Lett. **100**, 101801 (2008) doi:10.1103/PhysRevLett.100.101801 [arXiv:0708.2094 [hep-ex]].

1615. V. M. Abazov *et al.* [D0 Collaboration], "Search for $B_s \to \mu^+\mu^-$ at D0," Phys. Rev. D **76**, 092001 (2007) doi:10.1103/PhysRevD.76.092001 [arXiv:0707.3997 [hep-ex]].

1616. V. M. Abazov *et al.* [D0 Collaboration], "Search for the lightest scalar top quark in events with two leptons in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Lett. B **659**, 500 (2008) doi:10.1016/j.physletb.2007.11.086 [arXiv:0707.2864 [hep-ex]].

1617. C. Carilli *et al.*, "Detection of 1.6×10^{10} $M_\odot$ of molecular gas in the host galaxy of the $z = 5.77$ SDSS quasar J0927+2001," Astrophys. J. **666**, L9 (2007) doi:10.1086/521648 [arXiv:0707.2339 [astro-ph]].

1618. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Λ_b^0 lifetime using semileptonic decays," Phys. Rev. Lett. **99**, 182001 (2007) doi:10.1103/PhysRevLett.99.182001 [arXiv:0706.2358 [hep-ex]].

1619. V. M. Abazov *et al.* [D0 Collaboration], "Direct observation of the strange b baryon Ξ_b^-," Phys. Rev. Lett. **99**, 052001 (2007) doi:10.1103/PhysRevLett.99.052001 [arXiv:0706.1690 [hep-ex]].

1620. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross-section in $p\bar{p}$ collisions using dilepton events," Phys. Rev. D **76**, 052006 (2007) doi:10.1103/PhysRevD.76.052006 [arXiv:0706.0458 [hep-ex]].

1621. V. M. Abazov *et al.* [D0 Collaboration], "Observation and Properties of $L = 1B_1$ and B_2^* Mesons," Phys. Rev. Lett. **99**, 172001 (2007) doi:10.1103/PhysRevLett.99.172001 [arXiv:0705.3229 [hep-ex]].

1622. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV using kinematic characteristics of lepton + jets events," Phys. Rev. D **76**, 092007 (2007) doi:10.1103/PhysRevD.76.092007 [arXiv:0705.2788 [hep-ex]].

1623. V. M. Abazov *et al.* [D0 Collaboration], "$Z\gamma$ production and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$- TeV," Phys. Lett. B **653**, 378 (2007) doi:10.1016/j.physletb.2007.08.035 [arXiv:0705.1550 [hep-ex]].

1624. V. M. Abazov *et al.* [D0 Collaboration], "Search for third-generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **99**, 061801 (2007) doi:10.1103/PhysRevLett.99.061801 [arXiv:0705.0812 [hep-ex]].

1625. V. M. Abazov *et al.* [D0 Collaboration], "Search for stopped gluinos from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **99**, 131801 (2007) doi:10.1103/PhysRevLett.99.131801 [arXiv:0705.0306 [hep-ex]].

1626. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Λ_b lifetime in the exclusive decay $\Lambda_b \to J/\psi\Lambda$," Phys. Rev. Lett. **99**, 142001 (2007) doi:10.1103/PhysRevLett.99.142001 [arXiv:0704.3909 [hep-ex]].

1627. V. M. Abazov *et al.* [D0 Collaboration], "Search for a Higgs boson produced in association with a Z boson in $p\bar{p}$ collisions," Phys. Lett. B **655**, 209 (2007) doi:10.1016/j.physletb.2007.08.070 [arXiv:0704.2000 [hep-ex]].

1628. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the branching fraction $\mathrm{Br}(B^0(s) \to D_s^{(*)} D_s^{(*)})$," Phys. Rev. Lett. **99**, 241801 (2007) doi:10.1103/PhysRevLett.99.241801 [hep-ex/0702049 [HEP-EX]].

1629. V. M. Abazov *et al.* [D0 Collaboration], "Combined D^0 measurements constraining the CP-violating phase and width difference in the B_s^0 system," Phys. Rev. D **76**, 057101 (2007) doi:10.1103/PhysRevD.76.057101 [hep-ex/0702030 [HEP-EX]].

1630. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the shape of the boson rapidity distribution for $p\bar{p} \to Z/gamma^* \to e^+e^- + X$ events produced at $\sqrt{s}$ of 1.96-TeV," Phys. Rev. D **76**, 012003 (2007) doi:10.1103/PhysRevD.76.012003 [hep-ex/0702025 [HEP-EX]].

1631. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark mass in the lepton + jets channel using the Ideogram method," Phys. Rev. D **75**, 092001 (2007) doi:10.1103/PhysRevD.75.092001 [hep-ex/0702018 [HEP-EX]].

1632. V. M. Abazov *et al.* [D0 Collaboration], "Search for production of single top quarks via tcg and tug flavor- changing neutral current couplings," Phys. Rev. Lett. **99**, 191802 (2007) doi:10.1103/PhysRevLett.99.191802 [hep-ex/0702005 [HEP-EX], arXiv:0801.2556 [HEP-EX]].

1633. V. M. Abazov *et al.* [D0 Collaboration], "Lifetime difference and CP-violating phase in the B_s^0 system," Phys. Rev. Lett. **98**, 121801 (2007) doi:10.1103/PhysRevLett.98.121801 [hep-ex/0701012].

1634. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the charge asymmetry in semileptonic B_s decays," Phys. Rev. Lett. **98**, 151801 (2007) doi:10.1103/PhysRevLett.98.151801 [hep-ex/0701007].

1635. V. M. Abazov *et al.* [D0 Collaboration], "Evidence for production of single top quarks and first direct measurement of —Vtb—," Phys. Rev. Lett. **98**, 181802 (2007) doi:10.1103/PhysRevLett.98.181802 [hep-ex/0612052].

1636. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $p\bar{p} \to t\bar{t}$ production cross section at $\sqrt{s}$ = 1.96-TeV in the fully hadronic decay channel.," Phys. Rev. D **76**, 072007 (2007) doi:10.1103/PhysRevD.76.072007 [hep-ex/0612040].

1637. V. M. Abazov *et al.* [D0 Collaboration], "Search for techniparticles in e+jets events at D0," Phys. Rev. Lett. **98**, 221801 (2007) doi:10.1103/PhysRevLett.98.221801 [hep-ex/0612013].

1638. V. M. Abazov *et al.* [D0 Collaboration], "Search for single production of scalar leptoquarks in p anti-p collisions decaying into muons and quarks with the D0 detector," Phys. Lett. B **647**, 74 (2007) doi:10.1016/j.physletb.2007.01.064 [hep-ex/0612012].

1639. V. M. Abazov *et al.* [D0 Collaboration], "Search for the pair production of scalar top quarks in the acoplanar charm jet final state in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Lett. B **645**, 119 (2007) doi:10.1016/j.physletb.2006.12.024 [hep-ex/0611003].

1640. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the t anti-t production cross section in p anti-p collisions at s**(1/2) = 1.96-TeV using secondary vertex b tagging," Phys. Rev. D **74**, 112004 (2006) doi:10.1103/PhysRevD.74.112004 [hep-ex/0611002].

1641. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark mass in the dilepton channel," Phys. Lett. B **655**, 7 (2007) doi:10.1016/j.physletb.2007.08.074 [hep-ex/0609056].

1642. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark mass in the lepton+jets final state with the matrix element method," Phys. Rev. D **74**, 092005 (2006) doi:10.1103/PhysRevD.74.092005 [hep-ex/0609053].

1643. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the W boson helicity in top quark decay at D0," Phys. Rev. D **75**, 031102 (2007) doi:10.1103/PhysRevD.75.031102 [hep-ex/0609045].

1644. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of B_d mixing using opposite-side flavor tagging," Phys. Rev. D **74**, 112002 (2006) doi:10.1103/PhysRevD.74.112002 [hep-ex/0609034].

1645. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the CP-violation parameter of B0 mixing and decay with p anti-p —¿ mu mu X data," Phys. Rev. D **74**, 092001 (2006) doi:10.1103/PhysRevD.74.092001 [hep-ex/0609014].

1646. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratios of the Z/gamma* + ¿= n jet production cross sections to the total inclusive Z/gamma* cross section in p anti-p collisions at s**(1/2) = 1.96-TeV," Phys. Lett. B **658**, 112 (2008) doi:10.1016/j.physletb.2007.10.046 [hep-ex/0608052].

1647. V. M. Abazov *et al.* [D0 Collaboration], "Experimental discrimination between charge 2e/3 top quark and charge 4e/3 exotic quark production scenarios," Phys. Rev. Lett. **98**, 041801 (2007) doi:10.1103/PhysRevLett.98.041801 [hep-ex/0608044].

1648. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of scalar bottom quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **97**, 171806 (2006) doi:10.1103/PhysRevLett.97.171806 [hep-ex/0608013].

1649. V. M. Abazov *et al.* [D0 Collaboration], "Limits on anomalous trilinear gauge couplings from $WW \to e^+e^-$, $WW \to e^\pm\mu^\mp$, and $WW \to \mu^+\mu^-$ events from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. D **74**, 057101 (2006) [Phys. Rev. D **74**, 059904 (2006)] doi:10.1103/PhysRevD.74.057101, 10.1103/PhysRevD.74.059904 [hep-ex/0608011].

1650. V. M. Abazov *et al.* [D0 Collaboration], "Search for W' boson production in the top quark decay channel," Phys. Lett. B **641**, 423 (2006) doi:10.1016/j.physletb.2006.09.021 [hep-ex/0607102].

1651. V. M. Abazov *et al.* [D0 Collaboration], "Search for associated Higgs boson production WH $\to$ WWW* $\to \ell^\pm\nu\ell'$+- $\nu' + X$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **97**, 151804 (2006) doi:10.1103/PhysRevLett.97.151804 [hep-ex/0607032].

1652. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral, long-lived particles decaying into two muons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **97**, 161802 (2006) doi:10.1103/PhysRevLett.97.161802 [hep-ex/0607028].

1653. V. M. Abazov *et al.* [D0 Collaboration], "Search for the Standard Model Higgs Boson in the $p\bar{p} \to$ ZH $\to \nu\bar{\nu}b\bar{b}$ channel," Phys. Rev. Lett. **97**, 161803 (2006) doi:10.1103/PhysRevLett.97.161803 [hep-ex/0607022].

1654. V. M. Abazov *et al.* [D0 Collaboration], "Search for scalar leptoquarks in the acoplanar jet topology in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **640**, 230 (2006) doi:10.1016/j.physletb.2006.08.020 [hep-ex/0607009].

1655. V. M. Abazov *et al.* [D0 Collaboration], "Search for a heavy resonance decaying into a $Z+$ jet final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV using the D0 detector," Phys. Rev. D **74**, 011104 (2006) doi:10.1103/PhysRevD.74.011104 [hep-ex/0606018].

1656. V. M. Abazov *et al.* [D0 Collaboration], "Search for particles decaying into a Z boson and a photon in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Lett. B **641**, 415 (2006) [Phys. Lett. B **670**, 455 (2009)] doi:10.1016/j.physletb.2006.08.079, 10.1016/j.physletb.2008.11.032 [hep-ex/0605064].

1657. V. M. Abazov *et al.* [D0 Collaboration], "Search for resonant second generation slepton production at the Tevatron," Phys. Rev. Lett. **97**, 111801 (2006) doi:10.1103/PhysRevLett.97.111801 [hep-ex/0605010].

1658. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral Higgs bosons decaying to τ pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **97**, 121802 (2006) doi:10.1103/PhysRevLett.97.121802 [hep-ex/0605009].

1659. V. M. Abazov *et al.* [D0 Collaboration], "Search for R-parity violating supersymmetry via the LL anti-E couplings λ_{121}, λ_{122} or λ_{133} in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **638**, 441 (2006) doi:10.1016/j.physletb.2006.05.077 [hep-ex/0605005].

1660. V. M. Abazov *et al.* [D0 Collaboration], "A Precise measurement of the B_s^0 lifetime," Phys. Rev. Lett. **97**, 241801 (2006) doi:10.1103/PhysRevLett.97.241801 [hep-ex/0604046].

1661. V. M. Abazov *et al.* [D0 Collaboration], "Search for excited muons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. D **73**, 111102 (2006) doi:10.1103/PhysRevD.73.111102 [hep-ex/0604040].

1662. V. M. Abazov *et al.* [D0 Collaboration], "Search for squarks and gluinos in events with jets and missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **638**, 119 (2006) doi:10.1016/j.physletb.2006.05.030 [hep-ex/0604029].

1663. V. M. Abazov *et al.* [D0 Collaboration], "Multivariate searches for single top quark production with the D0 detector," Phys. Rev. D **75**, 092007 (2007) doi:10.1103/PhysRevD.75.092007 [hep-ex/0604020].

1664. V. M. Abazov *et al.* [D0 Collaboration], "Search for the rare decay $B_s^0 \to \phi\mu^+\mu^-$ with the D0 detector," Phys. Rev. D **74**, 031107 (2006) doi:10.1103/PhysRevD.74.031107 [hep-ex/0604015].

1665. V. M. Abazov *et al.* [D0 Collaboration], "First direct two-sided bound on the B_s^0 oscillation frequency," Phys. Rev. Lett. **97**, 021802 (2006) doi:10.1103/PhysRevLett.97.021802 [hep-ex/0603029].

1666. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of B($t \to$ Wb) /B($t \to$ Wq) at $\sqrt{s} =$ 1.96-TeV," Phys. Lett. B **639**, 616 (2006) doi:10.1016/j.physletb.2006.07.019 [hep-ex/0603002].

1667. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of second generation scalar leptoquarks in p anti-p collisions at $\sqrt{s} = 1.96$-TeV.," Phys. Lett. B **636**, 183 (2006) doi:10.1016/j.physletb.2006.03.056 [hep-ex/0601047].

1668. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the isolated photon cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **639**, 151 (2006) [Phys. Lett. B **658**, 285 (2008)] doi:10.1016/j.physletb.2007.06.047, 10.1016/j.physletb.2006.04.048 [hep-ex/0511054].

1669. V. M. Abazov *et al.* [D0 Collaboration], "Search for the Higgs boson in $H \to WW^{(*)}$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Rev. Lett. **96**, 011801 (2006) doi:10.1103/PhysRevLett.96.011801 [hep-ex/0508054].

1670. V. M. Abazov *et al.* [D0 Collaboration], "The Upgraded D0 detector," Nucl. Instrum. Meth. A **565**, 463 (2006) doi:10.1016/j.nima.2006.05.248 [physics/0507191 [physics.ins-det]].

1671. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the lifetime difference in the B0(s) system," Phys. Rev. Lett. **95**, 171801 (2005) doi:10.1103/PhysRevLett.95.171801 [hep-ex/0507084].

1672. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of semileptonic branching fractions of B mesons to narrow D^{**} states," Phys. Rev. Lett. **95**, 171803 (2005) doi:10.1103/PhysRevLett.95.171803 [hep-ex/0507046].

1673. V. M. Abazov *et al.* [D0 Collaboration], "Search for large extra spatial dimensions in dimuon production at D0," Phys. Rev. Lett. **95**, 161602 (2005) doi:10.1103/PhysRevLett.95.161602 [hep-ex/0506063].

1674. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV in dilepton final states," Phys. Lett. B **626**, 55 (2005) doi:10.1016/j.physletb.2005.08.105 [hep-ex/0505082].

1675. V. M. Abazov *et al.* [D0 Collaboration], "Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$-TeV," Phys. Lett. B **622**, 265 (2005) doi:10.1016/j.physletb.2005.07.027 [hep-ex/0505063].

1676. V. M. Abazov *et al.* [D0 Collaboration], "Search for right-handed W bosons in top quark decay," Phys. Rev. D **72**, 011104 (2005) doi:10.1103/PhysRevD.72.011104 [hep-ex/0505031].

1677. V. M. Abazov *et al.* [D0 Collaboration], "Search for Randall-Sundrum gravitons in dilepton and diphoton final states," Phys. Rev. Lett. **95**, 091801 (2005) doi:10.1103/PhysRevLett.95.091801 [hep-ex/0505018].

1678. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV using lepton + jets events with lifetime b^- tagging," Phys. Lett. B **626**, 35 (2005) doi:10.1016/j.physletb.2005.08.103 [hep-ex/0504058].

1679. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96 = TeV using kinematic characteristics of lepton + jets events," Phys. Lett. B **626**, 45 (2005) doi:10.1016/j.physletb.2005.08.104 [hep-ex/0504043].

1680. V. M. Abazov *et al.* [D0 Collaboration], "Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons," Phys. Rev. Lett. **95**, 151805 (2005) doi:10.1103/PhysRevLett.95.151805 [hep-ex/0504032].

1681. V. M. Abazov *et al.* [D0 Collaboration], "Production of WZ events in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV and limits on anomalous WWZ couplings," Phys. Rev. Lett. **95**, 141802 (2005) doi:10.1103/PhysRevLett.95.141802 [hep-ex/0504019].

1682. V. M. Abazov *et al.* [D0 Collaboration], "Search for neutral supersymmetric Higgs bosons in multijet events at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **95**, 151801 (2005) doi:10.1103/PhysRevLett.95.151801 [hep-ex/0504018].

1683. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the p - $\bar{p} \to W\gamma + X$ cross section at $\sqrt{s}$ = 1.96-TeV and $WW\gamma$ anomalous coupling limits," Phys. Rev. D **71**, 091108 (2005) doi:10.1103/PhysRevD.71.091108 [hep-ex/0503048].

1684. V. M. Abazov *et al.* [D0 Collaboration], "Study of $Z\gamma$ events and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **95**, 051802 (2005) doi:10.1103/PhysRevLett.95.051802 [hep-ex/0502036].

1685. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of inclusive differential cross sections for υ_{1S} production in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. Lett. **94**, 232001 (2005) [Phys. Rev. Lett. **100**, 049902 (2008)] doi:10.1103/PhysRevLett.100.049902, 10.1103/PhysRevLett.94.232001 [hep-ex/0502030].

1686. V. M. Abazov *et al.* [D0 Collaboration], "Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96-TeV," Phys. Rev. D **71**, 071104 (2005) doi:10.1103/PhysRevD.71.071104 [hep-ex/0412029].

1687. V. M. Abazov *et al.* [D0 Collaboration], "First measurement of σ ($p\bar{p} \to Z^)$. Br ($Z \to \tau\tau^)$ at $\sqrt{s}$ = 1.96- TeV," Phys. Rev. D **71**, 072004 (2005) [Phys. Rev. D **77**, 039901 (2008)] doi:10.1103/PhysRevD.77.039901, 10.1103/PhysRevD.71.072004 [hep-ex/0412020].

1688. V. M. Abazov *et al.* [D0 Collaboration], "A Search for anomalous heavy-flavor quark production in association with W bosons," Phys. Rev. Lett. **94**, 152002 (2005) doi:10.1103/PhysRevLett.94.152002 [hep-ex/0411084].

1689. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the top quark mass in all-jet events," Phys. Lett. B **606**, 25 (2005) doi:10.1016/j.physletb.2004.11.071 [hep-ex/0410086].

1690. V. M. Abazov *et al.* [D0 Collaboration], "A measurement of the ratio of inclusive cross sections $\sigma(pp \to Z + b - \text{jet})/\sigma(pp \to Z + jet)$ at $\sqrt{s}$ = 1.96 TeV," Phys. Rev. Lett. **94**, 161801 (2005) doi:10.1103/PhysRevLett.94.161801 [hep-ex/0410078].

1691. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the WW production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **94**, 151801 (2005) [Phys. Rev. Lett. **100**, 139901 (2008)] doi:10.1103/PhysRevLett.94.151801, 10.1103/PhysRevLett.100.139901 [hep-ex/0410066].

1692. V. M. Abazov *et al.* [D0 Collaboration], "A search for $Wb\bar{b}$ and WH production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **94**, 091802 (2005) doi:10.1103/PhysRevLett.94.091802 [hep-ex/0410062].

1693. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the Λ_b^0 lifetime in the decay $\Lambda_b^0 \to J/\psi\Lambda^0$ with the DØ detector," Phys. Rev. Lett. **94**, 102001 (2005) doi:10.1103/PhysRevLett.94.102001 [hep-ex/0410054].

1694. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of B^+ and B^0 meson lifetimes," Phys. Rev. Lett. **94**, 182001 (2005) doi:10.1103/PhysRevLett.94.182001 [hep-ex/0410052].

1695. V. M. Abazov *et al.* [D0 Collaboration], "A search for the flavor-changing neutral current decay $B_s^0 \to \mu^+\mu^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV with the DØ detector," Phys. Rev. Lett. **94**, 071802 (2005) doi:10.1103/PhysRevLett.94.071802 [hep-ex/0410039].

1696. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the B_s^0 lifetime in the exclusive decay channel $B_s^0 \to J/\psi\phi$," Phys. Rev. Lett. **94**, 042001 (2005) doi:10.1103/PhysRevLett.94.042001 [hep-ex/0409043].

1697. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of dijet azimuthal decorrelations at central rapidities in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **94**, 221801 (2005) doi:10.1103/PhysRevLett.94.221801 [hep-ex/0409040].

1698. V. M. Abazov *et al.* [D0 Collaboration], "Search for supersymmetry with gauge-mediated breaking in diphoton events at D0," Phys. Rev. Lett. **94**, 041801 (2005) doi:10.1103/PhysRevLett.94.041801 [hep-ex/0408146].

1699. V. M. Abazov *et al.* [D0 Collaboration], "A precision measurement of the mass of the top quark," Nature **429**, 638 (2004) doi:10.1038/nature02589 [hep-ex/0406031].

1700. V. M. Abazov *et al.* [D0 Collaboration], "Observation and properties of the $X(3872)$ decaying to $J/\psi\pi^+\pi^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **93**, 162002 (2004) doi:10.1103/PhysRevLett.93.162002 [hep-ex/0405004].

1701. V. M. Abazov *et al.* [D0 Collaboration], "Helicity of the W boson in lepton + jets $t\bar{t}$ events," Phys. Lett. B **617**, 1 (2005) doi:10.1016/j.physletb.2005.04.069 [hep-ex/0404040].

1702. V. M. Abazov *et al.* [D0 Collaboration], "Search for doubly-charged Higgs boson pair production in the decay to $\mu^+\mu^+\mu^-\mu^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV," Phys. Rev. Lett. **93**, 141801 (2004) doi:10.1103/PhysRevLett.93.141801 [hep-ex/0404015].

1703. V. M. Abazov *et al.* [D0 Collaboration], "Search for pair production of light scalar top quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **93**, 011801 (2004) doi:10.1103/PhysRevLett.93.011801 [hep-ex/0404028].

1704. V. M. Abazov *et al.* [CDF and D0 Collaborations], "Combination of CDF and D0 Results on W Boson Mass and Width," Phys. Rev. D **70**, 092008 (2004) doi:10.1103/PhysRevD.70.092008 [hep-ex/0311039].

1705. V. M. Abazov *et al.* [D0 Collaboration], "Search for 3- and 4-body decays of the scalar top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **581**, 147 (2004). doi:10.1016/j.physletb.2003.12.001

1706. V. M. Abazov *et al.* [D0 Collaboration], "Search for new particles in the two jet decay channel with the D0 detector," Phys. Rev. D **69**, 111101 (2004) doi:10.1103/PhysRevD.69.111101 [hep-ex/0308033].

1707. V. M. Abazov *et al.* [D0 Collaboration], "Observation of diffractively produced W and Z bosons in $\bar{p}p$ collisions at $\sqrt{s} = 1800$ GeV," Phys. Lett. B **574**, 169 (2003) doi:10.1016/j.physletb.2003.09.001 [hep-ex/0308032].

1708. V. M. Abazov *et al.* [D0 Collaboration], "Search for narrow $t\bar{t}$ resonances in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **92**, 221801 (2004) doi:10.1103/PhysRevLett.92.221801 [hep-ex/0307079].

1709. G. R. Kalbfleisch, W. Luo, K. A. Milton, E. H. Smith and M. G. Strauss, "Limits on production of magnetic monopoles utilizing samples from the D0 and CDF detectors at the Tevatron," Phys. Rev. D **69**, 052002 (2004) doi:10.1103/PhysRevD.69.052002 [hep-ex/0306045].

1710. V. M. Abazov *et al.* [D0 Collaboration], "Search for large extra dimensions in the monojet + missing E_T channel at DØ," Phys. Rev. Lett. **90**, 251802 (2003) doi:10.1103/PhysRevLett.90.251802 [hep-ex/0302014].

1711. V. M. Abazov *et al.* [D0 Collaboration], "Search for the production of single sleptons through $R-$parity violation in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **89**, 261801 (2002) doi:10.1103/PhysRevLett.89.261801 [hep-ex/0207100].

1712. V. M. Abazov *et al.* [D0 Collaboration], "Multiple jet production at low transverse energies in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **67**, 052001 (2003) doi:10.1103/PhysRevD.67.052001 [hep-ex/0207046].

1713. V. M. Abazov *et al.* [D0 Collaboration], "$t\bar{t}$ production cross-section in $p\bar{p}$ collisions at $\sqrt{s} =$ 1.8-TeV," Phys. Rev. D **67**, 012004 (2003) doi:10.1103/PhysRevD.67.012004 [hep-ex/0205019].

1714. V. M. Abazov *et al.* [D0 Collaboration], "Search for mSUGRA in single electron events with jets and large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **66**, 112001 (2002) doi:10.1103/PhysRevD.66.112001 [hep-ex/0205002].

1715. V. M. Abazov *et al.* [D0 Collaboration], "Improved W boson mass measurement with the D0 detector," Phys. Rev. D **66**, 012001 (2002) doi:10.1103/PhysRevD.66.012001 [hep-ex/0204014].

1716. V. M. Abazov *et al.* [D0 Collaboration], "A direct measurement of W boson decay width," Phys. Rev. D **66**, 032008 (2002) doi:10.1103/PhysRevD.66.032008 [hep-ex/0204009].

1717. V. M. Abazov *et al.* [D0 Collaboration], "Search for $R-$parity violating supersymmetry in dimuon and four-jets channel," Phys. Rev. Lett. **89**, 171801 (2002) doi:10.1103/PhysRevLett.89.171801 [hep-ex/0111053].

1718. V. M. Abazov *et al.* [D0 Collaboration], "Search for leptoquark pairs decaying to $\nu\nu$+jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **88**, 191801 (2002) doi:10.1103/PhysRevLett.88.191801 [hep-ex/0111047].

1719. V. M. Abazov *et al.* [D0 Collaboration], "The inclusive jet cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the k_T algorithm," Phys. Lett. B **525**, 211 (2002) doi:10.1016/S0370-2693(01)01441-1 [hep-ex/0109041].

1720. V. M. Abazov *et al.* [D0 Collaboration], "Subjet multiplicity of gluon and quark jets reconstructed with the k_T algorithm in $p\bar{p}$ collisions," Phys. Rev. D **65**, 052008 (2002) doi:10.1103/PhysRevD.65.052008 [hep-ex/0108054].

1721. V. M. Abazov *et al.* [D0 Collaboration], "A search for the scalar top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **88**, 171802 (2002) doi:10.1103/PhysRevLett.88.171802 [hep-ex/0108018].

1722. V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **517**, 299 (2001) doi:10.1016/S0370-2693(01)01020-6 [hep-ex/0107012].

1723. V. M. Abazov *et al.* [D0 Collaboration], "Search for single top quark production at D0 using neural networks," Phys. Lett. B **517**, 282 (2001) doi:10.1016/S0370-2693(01)01009-7 [hep-ex/0106059].

1724. V. M. Abazov *et al.* [D0 Collaboration], "Search for new physics using QUAERO: A General interface to D0 event data," Phys. Rev. Lett. **87**, 231801 (2001) doi:10.1103/PhysRevLett.87.231801 [hep-ex/0106039].

1725. V. M. Abazov *et al.* [D0 Collaboration], "The ratio of the isolated photon cross sections at $\sqrt{s} = 630$ GeV and 1800 GeV," Phys. Rev. Lett. **87**, 251805 (2001) doi:10.1103/PhysRevLett.87.251805 [hep-ex/0106026].

1726. V. M. Abazov *et al.* [D0 Collaboration], "Search for first generation scalar and vector leptoquarks," Phys. Rev. D **64**, 092004 (2001) doi:10.1103/PhysRevD.64.092004 [hep-ex/0105072].

1727. V. M. Abazov *et al.* [D0 Collaboration], "Search for heavy particles decaying into electron positron pairs in $p\bar{p}$ collisions," Phys. Rev. Lett. **87**, 061802 (2001) doi:10.1103/PhysRevLett.87.061802 [hep-ex/0102048].

1728. V. M. Abazov *et al.* [D0 Collaboration], "Direct search for charged Higgs bosons in decays of top quarks," Phys. Rev. Lett. **88**, 151803 (2002) doi:10.1103/PhysRevLett.88.151803 [hep-ex/0102039].

1729. B. Abbott *et al.* [D0 Collaboration], "A quasi-model-independent search for new high p_T physics at D0," Phys. Rev. Lett. **86**, 3712 (2001) doi:10.1103/PhysRevLett.86.3712 [hep-ex/0011071].

1730. B. Abbott *et al.* [D0 Collaboration], "High-p_T jets in $\bar{p}p$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV," Phys. Rev. D **64**, 032003 (2001) doi:10.1103/PhysRevD.64.032003 [hep-ex/0012046].

1731. V. M. Abazov *et al.* [D0 Collaboration], "A Quasi model independent search for new physics at large transverse momentum," Phys. Rev. D **64**, 012004 (2001) doi:10.1103/PhysRevD.64.012004 [hep-ex/0011067].

1732. B. Abbott *et al.* [D0 Collaboration], "Inclusive jet production in $p\bar{p}$ collisions," Phys. Rev. Lett. **86**, 1707 (2001) doi:10.1103/PhysRevLett.86.1707 [hep-ex/0011036].

1733. B. Abbott *et al.* [D0 Collaboration], "Differential cross section for W boson production as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **513**, 292 (2001) doi:10.1016/S0370-2693(01)00628-1 [hep-ex/0010026].

1734. B. Abbott *et al.* [D0 Collaboration], "Measurement of the angular distribution of electrons from $W \to e\nu$ decays observed in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **63**, 072001 (2001) doi:10.1103/PhysRevD.63.072001 [hep-ex/0009034].

1735. B. Abbott *et al.* [D0 Collaboration], "Ratios of multijet cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **86**, 1955 (2001) doi:10.1103/PhysRevLett.86.1955 [hep-ex/0009012].

1736. B. Abbott *et al.* [D0 Collaboration], "The ratio of jet cross sections at $\sqrt{s} = 630$ GeV and 1800 GeV," Phys. Rev. Lett. **86**, 2523 (2001) doi:10.1103/PhysRevLett.86.2523 [hep-ex/0008072].

1737. B. Abbott *et al.* [D0 Collaboration], "Search for large extra dimensions in dielectron and diphoton production," Phys. Rev. Lett. **86**, 1156 (2001) doi:10.1103/PhysRevLett.86.1156 [hep-ex/0008065].

1738. B. Abbott *et al.* [D0 Collaboration], "Search for electroweak production of single top quarks in $p\bar{p}$ collisions," Phys. Rev. D **63**, 031101 (2000) doi:10.1103/PhysRevD.63.031101 [hep-ex/0008024].

1739. B. Abbott *et al.* [D0 Collaboration], "Cross section for b jet production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **85**, 5068 (2000) doi:10.1103/PhysRevLett.85.5068 [hep-ex/0008021].

1740. B. Abbott *et al.* [D0 Collaboration], "Search for new physics in $e\mu X$ data at DØ using Sherlock: A quasi model independent search strategy for new physics," Phys. Rev. D **62**, 092004 (2000) doi:10.1103/PhysRevD.62.092004 [hep-ex/0006011].

1741. B. Abbott *et al.* [D0 Collaboration], "Search for $R-$parity violation in multilepton final states in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **62**, 071701 (2000) doi:10.1103/PhysRevD.62.071701 [hep-ex/0005034].

1742. G. R. Kalbfleisch, K. A. Milton, M. G. Strauss, L. P. Gamberg, E. H. Smith and W. Luo, "Improved experimental limits on the production of magnetic monopoles," Phys. Rev. Lett. **85**, 5292 (2000) doi:10.1103/PhysRevLett.85.5292 [hep-ex/0005005].

1743. B. Abbott *et al.* [D0 Collaboration], "A search for dilepton signatures from minimal low-energy supergravity in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **63**, 091102 (2001). doi:10.1103/PhysRevD.63.091102

1744. B. Abbott *et al.* [D0 Collaboration], "Spin correlation in $t\bar{t}$ production from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **85**, 256 (2000) doi:10.1103/PhysRevLett.85.256 [hep-ex/0002058].

1745. B. Abbott *et al.* [D0 Collaboration], "A measurement of the $W \to \tau\nu$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **84**, 5710 (2000) doi:10.1103/PhysRevLett.84.5710 [hep-ex/9912065].

1746. B. Abbott *et al.* [D0 Collaboration], "Hard single diffraction in $\bar{p}p$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV," Phys. Lett. B **531**, 52 (2002) doi:10.1016/S0370-2693(02)01364-3 [hep-ex/9912061].

1747. B. Abbott *et al.* [D0 Collaboration], "Limits on anomalous $WW\gamma$ and WWZ couplings from $WW/WZ \to e\nu jj$ production," Phys. Rev. D **62**, 052005 (2000) doi:10.1103/PhysRevD.62.052005 [hep-ex/9912033].

1748. B. Abbott *et al.* [D0 Collaboration], "Probing BFKL dynamics in the dijet cross section at large rapidity intervals in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV and 630-GeV," Phys. Rev. Lett. **84**, 5722 (2000) doi:10.1103/PhysRevLett.84.5722 [hep-ex/9912032].

1749. B. Abbott *et al.* [D0 Collaboration], "Limits on quark compositeness from high-energy jets in $\bar{p}p$ collisions at 1.8 TeV," Phys. Rev. D **62**, 031101 (2000) doi:10.1103/PhysRevD.62.031101 [hep-ex/9912023].

1750. B. Abbott *et al.* [D0 Collaboration], "The isolated photon cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **84**, 2786 (2000) doi:10.1103/PhysRevLett.84.2786 [hep-ex/9912017].

1751. K. Abe *et al.* [SLD Collaboration], "Search for charmless hadronic decays of B mesons with the SLD detector," Phys. Rev. D **62**, 071101 (2000) doi:10.1103/PhysRevD.62.071101 [hep-ex/9910050].

1752. B. Abbott *et al.* [D0 Collaboration], "Search for second generation leptoquark pairs in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **84**, 2088 (2000) doi:10.1103/PhysRevLett.84.2088 [hep-ex/9910040].

1753. B. Abbott *et al.* [D0 Collaboration], "A measurement of the W boson mass using electrons at large rapidities," Phys. Rev. Lett. **84**, 222 (2000) doi:10.1103/PhysRevLett.84.222 [hep-ex/9909030].

1754. B. Abbott *et al.* [D0 Collaboration], "Differential production cross section of Z bosons as a function of transverse momentum at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **84**, 2792 (2000) doi:10.1103/PhysRevLett.84.2792 [hep-ex/9909020].

1755. B. Abbott *et al.* [D0 Collaboration], "A measurement of the W boson mass using large rapidity electrons," Phys. Rev. D **62**, 092006 (2000) doi:10.1103/PhysRevD.62.092006 [hep-ex/9908057].

1756. B. Abbott *et al.* [D0 Collaboration], "Evidence of color coherence effects in $W +$ jets events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **464**, 145 (1999) doi:10.1016/S0370-2693(99)01015-1 [hep-ex/9908017].

1757. B. Abbott *et al.* [D0 Collaboration], "Small angle muon and bottom quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **84**, 5478 (2000) doi:10.1103/PhysRevLett.84.5478 [hep-ex/9907029].

1758. B. Abbott *et al.* [D0 Collaboration], "Search for $R-$parity violating supersymmetry in the dielectron channel," Phys. Rev. Lett. **83**, 4476 (1999) doi:10.1103/PhysRevLett.83.4476 [hep-ex/9907019].

1759. B. Abbott *et al.* [D0 Collaboration], "Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **61**, 032004 (2000) doi:10.1103/PhysRevD.61.032004 [hep-ex/9907009].

1760. K. Abe *et al.* [SLD Collaboration], "Direct measurement of A(b) and A(c) at the Z^0 pole using a lepton tag," Phys. Rev. Lett. **83**, 3384 (1999). doi:10.1103/PhysRevLett.83.3384

1761. B. Abbott *et al.* [D0 Collaboration], "Extraction of the width of the W boson from measurements of $\sigma(p\bar{p} \to W + X) \times B(W \to e\nu)$ and $\sigma(p\bar{p} \to Z + X) \times B(Z \to ee)$ and their ratio," Phys. Rev. D **61**, 072001 (2000) doi:10.1103/PhysRevD.61.072001 [hep-ex/9906025].

1762. B. Abbott *et al.* [D0 Collaboration], "The $b\bar{b}$ production cross section and angular correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **487**, 264 (2000) doi:10.1016/S0370-2693(00)00844-3 [hep-ex/9905024].

1763. B. Abbott *et al.* [D0 Collaboration], "Studies of WW and WZ production and limits on anomalous $WW\gamma$ and WWZ couplings," Phys. Rev. D **60**, 072002 (1999) doi:10.1103/PhysRevD.60.072002 [hep-ex/9905005].

1764. B. Abbott *et al.* [D0 Collaboration], "Search for second generation leptoquark pairs decaying to $\mu\nu$ + jets in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.8 TeV," Phys. Rev. Lett. **83**, 2896 (1999) doi:10.1103/PhysRevLett.83.2896 [hep-ex/9904023].

1765. B. Abbott *et al.* [D0 Collaboration], "Search for charged higgs bosons in decays of top quark pairs," Phys. Rev. Lett. **82**, 4975 (1999) doi:10.1103/PhysRevLett.82.4975 [hep-ex/9902028].

1766. B. Abbott *et al.* [D0 Collaboration], "Search for bottom squarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. D **60**, 031101 (1999) doi:10.1103/PhysRevD.60.031101 [hep-ex/9903041].

1767. K. Abe *et al.* [SLD Collaboration], "First study of the structure of $e^+e^- \to b\bar{b}g$ events and limits on the anomalous chromomagnetic coupling of the b quark," Phys. Rev. D **60**, 092002 (1999) doi:10.1103/PhysRevD.60.092002 [hep-ex/9903004].

1768. B. Abbott *et al.* [D0 Collaboration], "Search for squarks and gluinos in events containing jets and a large imbalance in transverse energy," Phys. Rev. Lett. **83**, 4937 (1999) doi:10.1103/PhysRevLett.83.4937 [hep-ex/9902013].

1769. B. Abbott *et al.* [D0 Collaboration], "Measurement of W and Z boson production cross sections," Phys. Rev. D **60**, 052003 (1999) doi:10.1103/PhysRevD.60.052003 [hep-ex/9901040].

1770. B. Abbott *et al.* [D0 Collaboration], "Measurement of the top quark pair production cross-section in the all jets decay channel," Phys. Rev. Lett. **83**, 1908 (1999) doi:10.1103/PhysRevLett.83.1908 [hep-ex/9901023].

1771. K. Abe *et al.* [SLD Collaboration], "Direct measurement of A(b) in Z^0 decays using charged kaon tagging," Phys. Rev. Lett. **83**, 1902 (1999). doi:10.1103/PhysRevLett.83.1902

1772. D. Muller *et al.* [SLD Collaboration], "Physics results from SLD using the CRID," Nucl. Instrum. Meth. A **433**, 314 (1999) doi:10.1016/S0168-9002(99)00339-3 [hep-ex/9901032].

1773. B. Abbott *et al.* [D0 Collaboration], "Measurement of the high mass Drell-Yan cross-section and limits on quark electron compositeness scales," Phys. Rev. Lett. **82**, 4769 (1999) doi:10.1103/PhysRevLett.82. [hep-ex/9812010].

1774. B. Abbott *et al.* [D0 Collaboration], "Search for nonstandard Higgs bosons using high mass photon pairs in $p\bar{p} \to \gamma\gamma$ + 2jets at $\sqrt{s}$ = 1.8 TeV," Phys. Rev. Lett. **82**, 2244 (1999) doi:10.1103/PhysRevLett.82.2244 [hep-ex/9811029].

1775. N. B. Sinev *et al.*, "Initial impact parameter resolution of the new SLD vertex detector," Nucl. Instrum. Meth. A **409**, 243 (1998). doi:10.1016/S0168-9002(97)01271-0

1776. B. Abbott *et al.* [D0 Collaboration], "Probing hard color-singlet exchange in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV," Phys. Lett. B **440**, 189 (1998) doi:10.1016/S0370-2693(98)01238-6 [hep-ex/9809016].

1777. B. Abbott *et al.* [D0 Collaboration], "Measurement of the top quark pair production cross section in $p\bar{p}$ collisions using multijet final states," Phys. Rev. D **60**, 012001 (1999) doi:10.1103/PhysRevD.60.012001 [hep-ex/9808034].

1778. B. Abbott *et al.* [D0 Collaboration], "Measurement of the top quark mass in the dilepton channel," Phys. Rev. D **60**, 052001 (1999) doi:10.1103/PhysRevD.60.052001 [hep-ex/9808029].

1779. B. Abbott *et al.* [D0 Collaboration], "Search for squarks and gluinos in single-photon events with jets and large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **82**, 29 (1999) doi:10.1103/PhysRevLett.82.29 [hep-ex/9808010].

1780. B. Abbott *et al.* [D0 Collaboration], "Small angle J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **82**, 35 (1999) doi:10.1103/PhysRevLett.82.35 [hep-ex/9807029].

1781. B. Abbott *et al.* [D0 Collaboration], "The inclusive jet cross section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **82**, 2451 (1999) doi:10.1103/PhysRevLett.82.2451 [hep-ex/9807018].

1782. B. Abbott *et al.* [D0 Collaboration], "The dijet mass spectrum and a search for quark compositeness in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **82**, 2457 (1999) doi:10.1103/PhysRevLett.82.2457 [hep-ex/9807014].

1783. B. Abbott *et al.* [D0 Collaboration], "Determination of the absolute jet energy scale in the D0 calorimeters," Nucl. Instrum. Meth. A **424**, 352 (1999) doi:10.1016/S0168-9002(98)01368-0 [hep-ex/9805009].

1784. B. Abbott *et al.* [D0 Collaboration], "A Search for heavy point - like Dirac monopoles," Phys. Rev. Lett. **81**, 524 (1998) doi:10.1103/PhysRevLett.81.524 [hep-ex/9803023].

1785. B. Abbott *et al.* [D0 Collaboration], "Limits on anomalous $WW\gamma$ and WWZ couplings," Phys. Rev. D **58**, 031102 (1998) doi:10.1103/PhysRevD.58.031102 [hep-ex/9803017].

1786. B. Abbott *et al.* [D0 Collaboration], "Search for charge 1/3 third generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **81**, 38 (1998) doi:10.1103/PhysRevLett.81.38 [hep-ex/9803009].

1787. B. Abbott *et al.* [D0 Collaboration], "Limits on $WW\gamma$ and WWZ couplings from W boson pair production," Phys. Rev. D **58**, 051101 (1998) doi:10.1103/PhysRevD.58.051101 [hep-ex/9803004].

1788. B. Abbott *et al.* [D0 Collaboration], "Measurement of the shape of the transverse momentum distribution of W bosons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **80**, 5498 (1998) doi:10.1103/PhysRevLett.80.5498 [hep-ex/9803003].

1789. B. Abbott *et al.* [D0 Collaboration], "Search for the decay $b \to X_s\ \mu^+\mu^-$," Phys. Lett. B **423**, 419 (1998) doi:10.1016/S0370-2693(98)00161-0 [hep-ex/9801027].

1790. B. Abbott *et al.* [D0 Collaboration], "Direct measurement of the top quark mass at D0," Phys. Rev. D **58**, 052001 (1998) doi:10.1103/PhysRevD.58.052001 [hep-ex/9801025].

1791. B. Abbott *et al.* [D0 Collaboration], "$Z\gamma$ production in $\bar{p}p$ collisions $\sqrt{s} = 1.8$ TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings," Phys. Rev. D **57**, 3817 (1998) doi:10.1103/PhysRevD.57.R3817 [hep-ex/9710031].

1792. N. B. Sinev *et al.* [SLD Collaboration], "Performance of the new vertex detector at SLD," IEEE Trans. Nucl. Sci. **44**, 587 (1997). doi:10.1109/23.603716

1793. B. Abbott *et al.* [D0 Collaboration], "A measurement of the W boson mass," Phys. Rev. D **58**, 092003 (1998) doi:10.1103/PhysRevD.58.092003 [hep-ex/9712029].

1794. B. Abbott *et al.* [D0 Collaboration], "A measurement of the W boson mass," Phys. Rev. Lett. **80**, 3008 (1998) doi:10.1103/PhysRevLett.80.3008 [hep-ex/9712028].

1795. B. Abbott *et al.* [D0 Collaboration], "Search for first generation scalar leptoquark pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **80**, 2051 (1998) doi:10.1103/PhysRevLett.80.2051 [hep-ex/9710032].

1796. K. Abe *et al.* [SLD Collaboration], "Measurement of the B^+ and B^0 lifetimes using topological reconstruction of inclusive and semileptonic decays," Phys. Rev. Lett. **79**, 590 (1997). doi:10.1103/PhysRevLett.79.590

1797. B. Abbott *et al.* [D0 Collaboration], "Determination of the mass of the W boson using the DØ detector at the Tevatron," Phys. Rev. D **58**, 012002 (1998) doi:10.1103/PhysRevD.58.012002 [hep-ex/9710007].

1798. K. Abe *et al.*, "Design and performance of the SLD vertex detector, a 307 Mpixel tracking system," Nucl. Instrum. Meth. A **400**, 287 (1997). doi:10.1016/S0168-9002(97)01011-5

1799. K. Abe *et al.* [SLD Collaboration], "A Measurement of R(b) using a vertex mass tag," Phys. Rev. Lett. **80**, 660 (1998) doi:10.1103/PhysRevLett.80.660 [hep-ex/9708015].

1800. B. Abbott *et al.* [D0 Collaboration], "Experimental search for chargino and neutralino production via gauge mediated supersymmetry breaking models," Phys. Rev. Lett. **80**, 442 (1998) doi:10.1103/PhysRevLett.80.442 [hep-ex/9708005].

1801. B. Abbott *et al.* [D0 Collaboration], "Search for scalar leptoquark pairs decaying to electrons and jets in $\bar{p}p$ collisions," Phys. Rev. Lett. **79**, 4321 (1997) doi:10.1103/PhysRevLett.79.4321 [hep-ex/9707033].

1802. B. Abbott *et al.* [D0 Collaboration], "Measurement of dijet angular distributions and search for quark compositeness," Phys. Rev. Lett. **80**, 666 (1998) doi:10.1103/PhysRevLett.80.666 [hep-ex/9707016].

1803. K. Abe *et al.* [SLD Collaboration], "Measurement of the B hadron energy distribution in Z^0 decays," Phys. Rev. D **56**, 5310 (1997) doi:10.1103/PhysRevD.56.5310 [hep-ex/9707011].

1804. B. Abbott *et al.* [D0 Collaboration], "Measurement of the top quark mass using dilepton events," Phys. Rev. Lett. **80**, 2063 (1998) doi:10.1103/PhysRevLett.80.2063 [hep-ex/9706014].

1805. B. Abbott *et al.* [D0 Collaboration], "Color coherent radiation in multijet events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV," Phys. Lett. B **414**, 419 (1997) doi:10.1016/S0370-2693(97)01190-8 [hep-ex/9706012].

1806. B. Abbott *et al.* [D0 Collaboration], "Search for the trilepton signature from the associated production of SUSY $\tilde{\chi}_1^{\pm}\tilde{\chi}_2^0$ gauginos," Phys. Rev. Lett. **80**, 1591 (1998) doi:10.1103/PhysRevLett.80.1591 [hep-ex/9705015].

1807. B. Abbott *et al.* [D0 Collaboration], "Limits on WWZ and $WW\gamma$ couplings from $p\bar{p} \to e\nu jjX$ events at $\sqrt{s} = 1.8$ TeV," Phys. Rev. Lett. **79**, 1441 (1997) doi:10.1103/PhysRevLett.79.1441 [hep-ex/9705010].

1808. S. Abachi *et al.* [D0 Collaboration], "Measurement of the top quark pair production cross section in $p\bar{p}$ collisions," Phys. Rev. Lett. **79**, 1203 (1997) doi:10.1103/PhysRevLett.79.1203 [hep-ex/9704015].

1809. K. Abe *et al.* [SLD Collaboration], "Direct measurement of leptonic coupling asymmetries with polarized Zs," Phys. Rev. Lett. **79**, 804 (1997) doi:10.1103/PhysRevLett.79.804 [hep-ex/9704012].

1810. S. Abachi *et al.* [D0 Collaboration], "Studies of gauge boson pair production and trilinear couplings," Phys. Rev. D **56**, 6742 (1997) doi:10.1103/PhysRevD.56.6742 [hep-ex/9704004].

1811. S. Abachi *et al.* [D0 Collaboration], "Direct measurement of the top quark mass," Phys. Rev. Lett. **79**, 1197 (1997) doi:10.1103/PhysRevLett.79.1197 [hep-ex/9703008].

1812. S. Abachi *et al.* [D0 Collaboration], "Study of the $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $Z(\nu\nu)\gamma$ production," Phys. Rev. Lett. **78**, 3640 (1997) doi:10.1103/PhysRevLett.78.3640 [hep-ex/9702011].

1813. K. Abe *et al.* [SLD Collaboration], "Measurement of leading particle effects in decays of Z^0 bosons into light flavors," Phys. Rev. Lett. **78**, 3442 (1997) [Phys. Rev. Lett. **79**, 959 (1997)] doi:10.1103/PhysRevLett.78.3442 [hep-ex/9702009].

1814. K. Abe *et al.* [SLD Collaboration], "Measurement of the tau-neutrino helicity and the Michel parameters in polarized e^+e^- collisions," Phys. Rev. Lett. **78**, 4691 (1997) doi:10.1103/PhysRevLett.78.4691 [hep-ex/9701020].

1815. K. Abe *et al.* [SLD Collaboration], "An improved measurement of the left-right Z^0 cross-section asymmetry," Phys. Rev. Lett. **78**, 2075 (1997) doi:10.1103/PhysRevLett.78.2075 [hep-ex/9611011].

1816. K. Abe *et al.* [SLD Collaboration], "First measurement of the left-right charge asymmetry in hadronic Z boson decays and a new determination of sin**2 theta(W)(eff)," Phys. Rev. Lett. **78**, 17 (1997) doi:10.1103/PhysRevLett.78.17 [hep-ex/9609019].

1817. K. Abe *et al.* [SLD Collaboration], "Measurement of the charged multiplicities in b,c and light quark events from Z^0 decays," Phys. Lett. B **386**, 475 (1996) doi:10.1016/0370-2693(96)01025-8 [hep-ex/9608008].

1818. K. Abe *et al.* [SLD Collaboration], "A Study of the orientation and energy partition of three jet events in hadronic Z0 decays," Phys. Rev. D **55**, 2533 (1997) doi:10.1103/PhysRevD.55.2533 [hep-ex/9608016].

1819. K. Abe *et al.* [SLD Collaboration], "Factorial and cumulant moments in $e^+e^- \to$ hadrons at the Z^0 resonance," Phys. Lett. B **371**, 149 (1996) doi:10.1016/0370-2693(96)00046-9 [hep-ex/9601010].

1820. K. Abe *et al.* [SLD Collaboration], "First study of rapidity gaps in e^+e^- annihilation," Phys. Rev. Lett. **76**, 4886 (1996) doi:10.1103/PhysRevLett.76.4886 [hep-ex/9607008].

1821. K. Abe *et al.* [SLD Collaboration], "Measurement of the left-right forward - backward asymmetry for charm quarks with D^{*+} and D^+ mesons," Phys. Rev. Lett. **75**, 3609 (1995). doi:10.1103/PhysRevLett.75.3609

1822. D. Su *et al.* [SLD Collaboration], "Production of charm and beauty in e^+e^- with polarized electron beam," Nuovo Cim. A **109**, 663 (1996).

1823. K. Abe *et al.* [SLD Collaboration], "Measurement of the average B hadron lifetime in Z^0 decays using reconstructed vertices," Phys. Rev. Lett. **75**, 3624 (1995) doi:10.1103/PhysRevLett.75.3624 [hep-ex/9511005].

1824. K. Abe *et al.* [SLD Collaboration], "First measurement of the t odd correlation between the Z^0 spin and the three jet plane orientation in polarized Z0 decays to three jets," Phys. Rev. Lett. **75**, 4173 (1995) doi:10.1103/PhysRevLett.75.4173 [hep-ex/9510005].

1825. K. Abe *et al.* [SLD Collaboration], "Measurement of the tau lifetime at SLD," Phys. Rev. D **52**, 4828 (1995) doi:10.1103/PhysRevD.52.4828 [hep-ex/9506004].

1826. K. Abe *et al.* [SLD Collaboration], "Measurements of R(b) with impact parameters and displaced vertices," Phys. Rev. D **53**, 1023 (1996). doi:10.1103/PhysRevD.53.1023

1827. K. Abe *et al.* [SLD Collaboration], "Comparison of a new calculation of energy-energy correlations with $e^+e^- \to$ hadrons data at the Z^0 resonance," Phys. Rev. D **52**, 4240 (1995). doi:10.1103/PhysRevD.52.4240

1828. K. Abe *et al.* [SLD Collaboration], "A Test of the flavor independence of strong interactions," Phys. Rev. D **53**, 2271 (1996) doi:10.1103/PhysRevD.53.2271 [hep-ex/9501005].

1829. K. Abe *et al.* [SLD Collaboration], "Measurement of $\alpha_s(M(Z)^2)$ from hadronic event observables at the Z0 resonance," Phys. Rev. D **51**, 962 (1995) doi:10.1103/PhysRevD.51.962 [hep-ex/9501003].

1830. K. Abe *et al.* [SLD Collaboration], "Measurement of A(b) from the left-right forward - backward asymmetry of b quark production in Z^0 decays using a momentum weighted track charge technique," Phys. Rev. Lett. **74**, 2890 (1995). doi:10.1103/PhysRevLett.74.2890

1831. K. Abe *et al.* [SLD Collaboration], "A Search for jet handedness in hadronic Z^0 decays," Phys. Rev. Lett. **74**, 1512 (1995) doi:10.1103/PhysRevLett.74.1512 [hep-ex/9501006].

1832. K. Abe *et al.* [SLD Collaboration], "Measurement of A(b) and A(c) from the left-right forward - backward asymmetry of leptons in hadronic events at the Z^0 resonance," Phys. Rev. Lett. **74**, 2895 (1995). doi:10.1103/PhysRevLett.74.2895

1833. K. Abe *et al.* [SLD Collaboration], "Polarized Bhabha scattering a precision measurement of the electron neutral current couplings," Phys. Rev. Lett. **74**, 2880 (1995) doi:10.1103/PhysRevLett.74.2880 [hep-ex/9410009].

1834. K. Abe *et al.* [SLD Collaboration], "Precise measurement of the left-right cross-section asymmetry in Z boson production by e^+e^- collisions," Phys. Rev. Lett. **73**, 25 (1994) doi:10.1103/PhysRevLett.73.25 [hep-ex/9404001].

1835. K. Abe *et al.* [SLD Collaboration], "Measurement of α_s from energy-energy correlations at the Z^0 resonance," Phys. Rev. D **50**, 5580 (1994) doi:10.1103/PhysRevD.50.5580 [hep-ex/9405006].

1836. K. Abe *et al.* [SLD Collaboration], "Measurement of the charged multiplicity of $Z^0 \to b\bar{b}$ events," Phys. Rev. Lett. **72**, 3145 (1994) doi:10.1103/PhysRevLett.72.3145 [hep-ex/9405004].

1837. D. A. Bauer *et al.* [TPC/Two Gamma Collaboration], "Measurement of the kaon content of three prong tau decays," Phys. Rev. D **50**, 13 (1994). doi:10.1103/PhysRevD.50.13

1838. K. Abe *et al.* [SLD Collaboration], "A Measurement of α_s from jet rates at the Z^0 resonance," Phys. Rev. Lett. **71**, 2528 (1993). doi:10.1103/PhysRevLett.71.2528

1839. R. D. Elia *et al.* [SLD Collaboration], "First measurement of the left-right asymmetry in Z boson production," Mod. Phys. Lett. A **8**, 2237 (1993). doi:10.1142/S0217732393003536

1840. D. A. Bauer *et al.* [TPC/Two Gamma Collaboration], "Evidence for spin one resonance production in the reaction $\gamma\gamma^* \to \pi^+\pi^-\pi^0\pi^0$," Phys. Rev. D **48**, 3976 (1993). doi:10.1103/PhysRevD.48.3976

1841. K. Abe *et al.* [SLD Collaboration], "First measurement of the left-right cross-section asymmetry in Z boson production by e+ e- collisions," Phys. Rev. Lett. **70**, 2515 (1993). doi:10.1103/PhysRevLett.70.2515

1842. D. A. Bauer *et al.* [TPC/Two-Gamma Collaboration], "Study of $X(C2)$ production in photon-photon collisions," Phys. Lett. B **302**, 345 (1993). doi:10.1016/0370-2693(93)90407-9

1843. H. Aihara *et al.* [TPC/Two-Gamma Collaboration], "Test of spin dependence in charm-quark fragmentation to D^*," Phys. Rev. D **43**, 29 (1991). doi:10.1103/PhysRevD.43.29

1844. M. Alston-Garnjost *et al.* [TPC/Two-Gamma Collaboration], "Inclusive $D^{*\pm}$ production in photon-photon collisions," Phys. Lett. B **252**, 499 (1990). doi:10.1016/0370-2693(90)90578-T

1845. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Investigation of the electromagnetic structure of η and η' mesons by two photon interactions," Phys. Rev. Lett. **64**, 172 (1990). doi:10.1103/PhysRevLett.64.172

1846. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "A measurement of the total hadronic cross-section in tagged $\gamma\gamma$ reactions," Phys. Rev. D **41**, 2667 (1990). doi:10.1103/PhysRevD.41.2667

1847. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Exclusive production of $p\bar{p}\pi^+\pi^-$ in photon-photon collisions," Phys. Rev. D **40**, 2772 (1989). doi:10.1103/PhysRevD.40.2772

1848. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Evidence of soft and collinear gluon emission in e^+e^- hadronic events," Z. Phys. C **44**, 357 (1989). doi:10.1007/BF01415549

1849. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "$f1(1285)$ formation in photon photon fusion reactions," Phys. Lett. B **209**, 107 (1988). doi:10.1016/0370-2693(88)91840-0

1850. M. Breidenbach *et al.* [SLD Collaboration], "A Status Report on the Sld Data Acquisition System," IEEE Trans. Nucl. Sci. **36**, 23 (1989). doi:10.1109/23.34395

1851. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Charged hadron inclusive cross-sections and fractions in e^+e^- annihiliation $\sqrt{s} = 29$ GeV," Phys. Rev. Lett. **61**, 1263 (1988). doi:10.1103/PhysRevLett.61

1852. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Production of Four Prong Final States in Photon-photon Collisions," Phys. Rev. D **37**, 28 (1988). doi:10.1103/PhysRevD.37.28

1853. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Formation of Spin One Mesons by Photon-photon Fusion," Phys. Rev. D **38**, 1 (1988). doi:10.1103/PhysRevD.38.1

1854. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Charmonium Production in Photon-photon Collisions," Phys. Rev. Lett. **60**, 2355 (1988). doi:10.1103/PhysRevLett.60.2355

1855. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Exclusive production of $p\bar{p}$ pairs in two photon collisions at PEP," Phys. Rev. D **36**, 3506 (1987). doi:10.1103/PhysRevD.36.3506

1856. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Experimental limit on the decay $\tau^- \to \tau^-\nu K^- K^0$," Phys. Rev. Lett. **59**, 751 (1987). doi:10.1103/PhysRevLett.59.751

1857. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "A study of η' formation in photon-photon collisions," Phys. Rev. D **35**, 2650 (1987). doi:10.1103/PhysRevD.35.2650

1858. H. Aihara *et al.* [TPC / TWO GAMMA Collaboration], "Search For High Mass Narrow Resonances In Virtual Photon Photon Interactions," Phys. Rev. Lett. **57**, 3245 (1986). doi:10.1103/PhysRevLett.57.32

1859. R. H. Pehl *et al.*, "The Development Of An Array Of Cooled Large Area Si(li) Detectors," Nucl. Instrum. Meth. A **248**, 519 (1986). doi:10.1016/0168-9002(86)91043-0

1860. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Comparison of $\pi^\pm$, $K^\pm$ and $p\bar{p}$ production in the central rapidity region in hadron hadron collisions and in e^+e^- annihilation," Phys. Lett. B **184**, 114 (1987). doi:10.1016/0370-2693(87)90499-0

1861. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Study of baryon correlations in e^+e^- annihilation at 29-GeV," Phys. Rev. Lett. **57**, 3140 (1986). doi:10.1103/PhysRevLett.57.3140

1862. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Measurement of τ branching ratios," Phys. Rev. D **35**, 1553 (1987). doi:10.1103/PhysRevD.35.1553

1863. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Pion and kaon multiplicities in heavy quark jets from e^+e^- annihilation at 29-GeV," Phys. Lett. B **184**, 299 (1987). doi:10.1016/0370-2693(87)90586-7

1864. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Measurement of the photon structure function $F_2^\gamma(x, Q^2)$ in the region $0.2 < Q^2 < 7$ GeV^2," Z. Phys. C **34**, 1 (1987). doi:10.1007/BF01561108

1865. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Observation of scaling of the photon structure function F_2^γ at low Q^2," Phys. Rev. Lett. **58**, 97 (1987). doi:10.1103/PhysRevLett.58.97

1866. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Measurement of the inclusive branching fraction $\tau^- \to \nu_\tau \pi^- \pi^0$ neutral meson(s)," Phys. Rev. Lett. **57**, 1836 (1986). doi:10.1103/PhysRevLett.57.1836

1867. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Evidence for a Spin One Particle Produced by Two Photons," Phys. Rev. Lett. **57**, 2500 (1986). doi:10.1103/PhysRevLett.57.2500

1868. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Comparison of the particle flow in $q\bar{q}g$ and $q\bar{q}\gamma$ events in e^+e^- annihilation," Phys. Rev. Lett. **57**, 945 (1986). doi:10.1103/PhysRevLett.57.945

1869. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Pion and Kaon Pair Production in Photon-Photon Collisions," Phys. Rev. Lett. **57**, 404 (1986). doi:10.1103/PhysRevLett.57.404

1870. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "An experimental limit on $\iota \to \gamma\gamma$ and the interpretation of the ι as a glueball," Phys. Rev. Lett. **57**, 51 (1986). doi:10.1103/PhysRevLett.57.51

1871. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "A study of η formation in photon-photon collisions at PEP," Phys. Rev. D **33**, 844 (1986). doi:10.1103/PhysRevD.33.844

1872. H. Aihara *et al.* [TPC/Two Gamma Collaboration], "Charged D^* meson production in e^+e^- annihilation at $\sqrt{s} = 29$ GeV," Phys. Rev. D **34**, 1945 (1986). doi:10.1103/PhysRevD.34.1945