

# CURRICULUM VITÆ

## 1 Personal Data

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U.S.A.
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Web: <http://www.nhn.ou.edu/~strauss>
- 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 (University 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  $\Lambda$  Polarization and  $\phi$  Spin Alignment in  $e^+e^-$  Annihilation at  $\sqrt{s} = 29$  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/ $2\gamma$  Collaboration, Stanford Linear Accelerator Center, Stanford, CA.
- **1983-1988:** Research Assistant, University of California, Los Angeles, CA; Member of TPC/ $2\gamma$  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  $WW \rightarrow e\nu\mu\nu$  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  $H \rightarrow WW \rightarrow \ell\nu\ell\nu$  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  $H \rightarrow WW \rightarrow \ell\nu qq$ .
- **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  $B^0 \rightarrow \mu^+\mu^-\pi^+\pi^-\pi^+\pi^-$ :** 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.
    - **R<sub>23</sub> Editorial Board:** (1997-2000) Member of editorial board that performed internal evaluation of a measurement of  $R_{23} = \frac{\sigma(p\bar{p} \rightarrow \geq 3 \text{ jets})}{\sigma(p\bar{p} \rightarrow \geq 2 \text{ jets})}$ . 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-Science 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): 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 University 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  $D\bar{O}$  data or ATLAS data.

- **Graduate Students:**

<u>Student</u>	<u>Position</u>	<u>Department</u>	<u>Status</u>
J.D. Nichols	Advisor	Ph.D., Physics	In Progress
Mayuri Kawale	Advisor	Ph.D., Physics	In Progress
Bijay Shrestha	Advisor	Ph.D., Physics	In Progress
Rena Wall	Committee Member	Ph.D., Astrophysics	In Progress
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 faculty senate representing the University of Oklahoma faculty and exercising 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 Committee (2022-2023)
  - Chairman, Graduate Studies Committee (2017-2022)
  - Assessment Committee (2017-2022)
  - Chairman, Undergraduate Studies Committee (2011-2016)
  - Research Experience for Undergraduates (2011-2023)
  - 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)
- 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  $Z^0 \rightarrow b\bar{b}$  events published in Phys. Rev. Lett.
  - A measurement of the flavor independence of the ratio of  $\alpha_s$  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  $R_b = \frac{\Gamma(Z^0 \rightarrow b\bar{b})}{\Gamma(Z^0 \rightarrow \text{hadrons})}$ . Developed the original SLD analysis for tagging  $Z^0 \rightarrow b\bar{b}$  events.
  - A measurement of the  $Z^0 \rightarrow q\bar{q}q\bar{q}$  cross section. Developed analysis techniques aimed at making the first measurement of the cross section  $Z^0 \rightarrow b\bar{b}b\bar{b}$ .

## 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/2 $\gamma$  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  $\lambda$  hyperons and  $\phi$  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/2 $\gamma$  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  $\Lambda$  baryons or  $\phi$  mesons, the original quark spin may be evident in the angular decay distributions of the  $\Lambda$  and  $\phi$ . 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  $\Lambda$  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

- **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, Gutierrez, 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, Gutierrez, 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, Gutierrez, 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  $W + \text{Jets}$  Production and  $\alpha_S$  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  $D\bar{0}$ ," 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  $D\bar{0}$  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 Gioí Publishers, p. 19.
7. "Color Singlet Exchange at the Tevatron" M.G. Strauss for the  $D\bar{0}$  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 Gioí Publishers, p. 93.
8. "The  $D\bar{0}$  Detector Upgrade at Fermilab," M.G. Strauss for the  $D\bar{0}$  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  $D\bar{O}$  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  $D\bar{O}$  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. 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]].
2. G. Aad *et al.* [ATLAS], “Evidence of pair production of longitudinally polarised vector bosons and study of CP properties in  $ZZ \rightarrow \ell$  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]].
3. G. Aad *et al.* [ATLAS], “Search for flavour-changing neutral tqH interactions with  $H \rightarrow \gamma\gamma$  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]].
4. 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]].
5. G. Aad *et al.* [ATLAS], “Measurement of the Higgs boson mass with  $H \rightarrow \gamma\gamma$  decays in  $140 \text{ fb}^{-1}$  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]].
6. 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]].
7. G. Aad *et al.* [ATLAS], “Measurement of the  $B_s^0 \rightarrow \mu\mu$  effective lifetime with the ATLAS detector,” JHEP **09**, 199 (2023) doi:10.1007/JHEP09(2023)199 [arXiv:2308.01171 [hep-ex]].
8. 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]].
9. 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]].
10. 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  $\tau$  leptons with the ATLAS detector,” JHEP **10**, 009 (2023) doi:10.1007/JHEP10(2023)009 [arXiv:2307.11120 [hep-ex]].
11. 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]].
12. 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]].
13. 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]].

14. 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]].
15. 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]].
16. G. Aad *et al.* [ATLAS], “Search for leptoquarks decaying into the  $b\tau$  final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector,” *JHEP* **10**, 001 (2023) doi:10.1007/JHEP10(2023)001 [arXiv:2305.15962 [hep-ex]].
17. 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]].
18. 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]].
19. G. Aad *et al.* [ATLAS], “Search for periodic signals in the dielectron and diphoton invariant mass spectra using 139 fb<sup>1</sup> 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]].
20. 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]].
21. 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]].
22. 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]].
23. 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]].
24. 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]].
25. 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]].
26. G. Aad *et al.* [ATLAS], “Search for high-mass  $W\gamma$  and  $Z\gamma$  resonances using hadronic W/Z boson decays from 139 fb<sup>1</sup> 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]].
27. 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]].

28. 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]].
29. 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]].
30. G. Aad *et al.* [ATLAS], “Fiducial and differential cross-section measurements for the vector-boson-fusion production of the Higgs boson in the  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  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]].
31. 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]].
32. 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]].
33. 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]].
34. 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]].
35. 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]].
36. 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]].
37. 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]].
38. G. Aad *et al.* [ATLAS], “Search for excited  $\tau$ -leptons and leptoquarks in the final state with  $\tau$ -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]].
39. 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]].
40. G. Aad *et al.* [ATLAS], “Search for pair production of third-generation leptoquarks decaying into a bottom quark and a  $\tau$ -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]].

41. G. Aad *et al.* [ATLAS], “Search for a light charged Higgs boson in  $t \rightarrow H^{\pm}b$  decays, with  $H^{\pm} \rightarrow cb$ , 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]].
42. 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]].
43. 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]].
44. 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.131.181901 [arXiv:2302.01283 [hep-ex]].
45. 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]].
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