

# 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: Associate 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

- **2001-Present:** 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.
- **2004-Present:** Associate Director, Oklahoma Center for High Energy Physics.
- **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: Assistant/Associate Professor, University of Oklahoma, Norman

#### 4.1.1 Research Experience

- **Data Analysis**

- **Dijet Mass Spectrum:** Analyzing data from run 2 of the Tevatron to measure the dijet mass spectrum.
- **Branching Fraction of  $B^0 \rightarrow \mu^+\mu^-\pi^+\pi^-\pi^+\pi^-$ :** Analyzing data from run 2 of the Tevatron to measure branching fractions of  $B$  mesons.
- **Production of Direct Photons:** Analyzed data from the Run-1c taken at the Fermilab Tevatron at  $\sqrt{s} = 630$  GeV with the  $D\bar{O}$  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 beam pipe. 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.

- **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**

- **$D\bar{O}$  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  $D\bar{O}$  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.
- **$D\bar{O}$  Silicon Microstrip Tracker Production Director:** Assisted in overseeing various aspects of the production and fabrication of the Silicon Microstrip Tracker.

- **$D\bar{O}$  Service**

- **Chairman of QCD Editorial Board:** (2008) Chaired editorial board that performed internal evaluation of all QCD physics. Approved 4 analyses for publication in 2008.
- **QCD Editorial Board:** (2002-2007) 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.
- **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:**

- CFI: Reviewed grant proposals for the Canada Foundation for Innovation (2005-2008)
- NSF: Reviewed CAREER grant proposals (2008)
- DOE: Reviewed grant proposals (2008)
- 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): 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 2514 and 2524: Physics for Engineering and Science Majors** (2000-2001): 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): 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 250 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: Introduction to Research** (1997, 2002-2005): 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-present): Coordinated NSF 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): Supervised Senior Capstone Project for student involving analysis of  $D\bar{O}$  single photon production data.

- **Graduate Students:**

<u>Student</u>	<u>Position</u>	<u>Department</u>	<u>Status</u>
Mandy Rominsky	Advisor	Ph.D., Physics	In progress
Ike Hall	Committee Member	Ph.D., Physics	Completed 2007
Matthew Price	Advisor	M.S., Physics	Completed 2000
Xiaojian Zhang	Committee Member	Ph.D., Physics	Completed 2004
Jesse Cooper	Committee Member	Ph.D., Biochemistry	Completed

#### 4.1.3 Service Experience

- **Member of Faculty Senate** (2008-present): 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** (1999-2008): 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:
  - Needs (1995-1996), Chairman (2000-2008)
  - Graduate Recruiting (1997-2005)
  - Graduate Studies (1996-1997)
  - Experimental Facilities (1995-1998)
  - Computing (1995-2000)
  - New Building Committee (1997, 1998)
  - Undergraduate Studies (1999, 2000-2008)
  - 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

- **2008**

- 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: \$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: \$204,631
- 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 including Regents match for OU Subcontract: \$304,000
- 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**

- D0E EPSCoR Grant with OSU, Langston:\$338,000 with Regents match
- 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. "Rare Heavy Flavor Decays at  $D\bar{D}$ ," M. G. Strauss, XXXIII International Conference on High Energy Physics, Moscow, Russia, July 26 - August 2, 2006, To be published, (2006).
2. "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).
3. "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.
4. "Photon Production at the Fermilab Tevatron," M.G. Strauss for the  $D\bar{D}$  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 Gioi Publishers, p. 19.
5. "Color Singlet Exchange at the Tevatron" M.G. Strauss for the  $D\bar{D}$  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 Gioi Publishers, p. 93.
6. "The  $D\bar{D}$  Detector Upgrade at Fermilab," M.G. Strauss for the  $D\bar{D}$  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.
7. "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.
8. "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.
9. "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.
10. "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.
11. "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 Top (at) Ten,” Colloquium, The University of Hawaii, Honolulu, March 16, 2006.
2. “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.
3. “Probing the Structure of the Proton at the Fermilab Tevatron,” Colloquium, University of Oklahoma, Norman, OK, October 5, 2000.
4. “On Top at  $D\bar{0}$  and other Heavy Subjects,” Colloquium, Oklahoma State University, Stillwater, OK, January 20, 2000.
5. “A Tour of the Standard Model of Elementary Particles and Fields,” Grayson County Community College, TX, September 23, 1999.
6. “The Fundamental Forces and Particles in the Universe,” Colloquium, Northeastern State University, Tahlequah, OK, April 15, 1998.
7. “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. “Search for the Standard Model Higgs Boson in the Missing Energy and Acoplanar  $b$ -Jet Topology at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 251802 (2008).
2. “Search for Third Generation Scalar Leptoquarks Decaying into  $\tau b$ ,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 241802 (2008).
3. “Measurement of the  $B_s^0$  Mixing Parameters from the Flavor-Tagged Decay  $B_s^0 \rightarrow J/\psi\phi$ ,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 241801 (2008).
4. “Observation of the Doubly Strange  $b$  Baryon  $\Omega_b^-$ ,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 232002 (2008).
5. “Search for Neutral Higgs Bosons in Multi- $b$ -Jet Events in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 221802 (2008).
6. “Search for Anomalous  $Wtb$  Couplings in Single Top Quark Production,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 221801 (2008).
7. “Measurement of the Electron Charge Asymmetry in  $p\bar{p} \rightarrow W+X \rightarrow e\nu+X$  Events at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 211801 (2008).
8. “Measurement of  $\sigma(p\bar{p} \rightarrow Z+X)\text{Br}(Z \rightarrow \tau^+\tau^-)$  at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Lett.* **B670**, 292 (2008).
9. “Measurement of the Forward-Backward Charge Asymmetry and Extraction of  $\sin^2\theta_{W\text{eff}}$  in  $p\bar{p} \rightarrow Z/\gamma^* + X \rightarrow e^+e^- + X$  Events Produced at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 191801 (2008).
10. “Measurement of the Polarization of the  $\Upsilon(1S)$  and  $\Upsilon(2S)$  States in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV,” DØ Collaboration, V.M. Abazov *et. al.*, *Phys. Rev. Lett.* **101**, 182004 (2008).
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