

William M. Lee

Curriculum Vitae

Contact Information

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Education

Ph.D.	Georgia State University, Atlanta, Ga.	December 1999
Dissertation Topic:	Nuclear Dependence of J/ψ and ψ' Production	
M.S.	Georgia State University, Atlanta, Ga.	August 1997
B.S.E.E.	Univ. of South Carolina, Columbia, S.C.	December 1988

Professional Experience

Research Scholar Scientist	Florida State University	2005-present
Research Associate	Florida State University	2000-2005
Research/Teaching Asst.	Georgia State University	1993-1999
Engineer	Columbia Research Corporation	1990-1991
Instructor	Midlands Technical College	1989-1990
Teaching Assistant	University of South Carolina	1987-1990

Research Experience:

- The D \emptyset Experiment

D \emptyset is a worldwide collaboration of scientists conducting research on the fundamental nature of matter. This research focuses on precise studies of interactions of protons and antiprotons at the highest available energies. It involves an intense search for subatomic clues that reveal the character of the building blocks of the universe.

- Run Coordinator

Since January of 2005, I have been the D \emptyset Run Coordinator. The Run Coordinator is responsible for coordination of all aspects of the D \emptyset experiment's data collection: from beam collisions to the writing of events to tape, from staffing the control room to maintaining the detector. The Run Coordinator is the primary contact person between D \emptyset and Fermilab's Accelerator division and is responsible for negotiating the conditions of the experiment's operations and reporting on D \emptyset 's operational status.

- Triggermeister

During 2003-2004, I was Triggermeister for D \emptyset . In this post I provided all of the trigger lists for general running, commissioning new devices, and monitoring the operation of the detector. I have developed new trigger lists which allow D \emptyset to run the experiment at higher luminosities without affecting our ability to collect good physics data, balancing the needs of the different physics groups.

- Silicon Track Trigger (STT)

Until January 2004, I was the STT commissioning coordinator. Under my watch the STT grew from a set of boards in a single test crate to an integrated part of the data

acquisition system. In addition, I was responsible for writing all of the downloading and monitoring software for the STT system using a combination of VxWorks, EPICS, C, and Python.

– *B* Physics

I am presently analysing $D\bar{0}$ data in a search for pentaquarks. Since summer of 2003, evidence for pentaquark states has been observed by some experiments while others have reported no observation. This analysis is searching for the Θ^+ and Θ_c in the pK_s^0 and pD^* channels, respectively. I have also assisted in quarkonia polarization studies in the di-muon channel and the understanding and analysis of the properties of the X(3782) particle.

– Data Acquisition and Online Systems

For 2001-2002 I was the data acquisition system(DAQ) manager. I was responsible for ensuring the smooth operation of the $D\bar{0}$ experiment's DAQ. I coordinated and was lead trainer of the $D\bar{0}$ DAQ shifter team. From 2000-2003 I was the Online Systems liason to the calorimeter detector and one of a handful of online experts.

– Linux System Manager

Since 2001, I have been a senior system manager for the Clued0 cluster. Clued0 is a 300+ node desktop linux cluster which provides enough processing power to analyze hundreds of gigabytes of data per day. The System Managers have the responsibility if installing new nodes, maintaining old nodes, keeping the system secure, and operating the batch system.

– Administration

The $D\bar{0}$ collaboration relies on its members to provide its administration. I spent two years on the offline resources board, which manages all of the offline resources at $D\bar{0}$. I also participate on two Editorial Boards, "The Measurement of the Top mass at $D\bar{0}$ " and "The Top Cross-section in the ALL Jets Channel"

• FNAL E866/NuSea

The NuSea experiment measured the antiquark flavor asymmetry in the nucleon sea. NuSea also studied J/ψ polarization and measured the nuclear dependence for dimuons ranging in mass from 0.5 to 8.0 GeV/c .

– Charmonia physics

I performed the complete analysis of J/ψ and ψ' nuclear dependence data, starting from optimizing the trigger system to the final analysis and calculations. This analysis has provided insight into nuclear suppression effects on the J/ψ . Some of these effects are absorption by the nucleus or by comovers, shadowing of the initial partons, and energy loss and multiple scattering in either the initial or final state. Since J/ψ suppression is a proposed signature of the Quark-Gluon Plasma, this data has been very important in interpreting J/ψ production in ultra-relativistic heavy-ion collisions.

– Data Acquisition System (DAQ)

Georgia State contributed the "third level trigger" system to NuSea. This system used multiple digital signal processors (DSP's) on a single board in the DAQ's VME bus. The DSP's performed a relatively complicated data analysis in real time before the data is written to tape. I designed, tested, and implemented the system. This involved programming the DSP's to perform the communication between each other and the rest of the DAQ. In this process I became one of the few experts in the VME portion of the DAQ.

– E866 Spectrometer

I was active in all aspects of running the experiment. I performed many of the upgrades and repairs prior to the start of the run, as well as maintenance and monitoring of the spectrometer during data collection.

• BNL RD94

RD94 at Brookhaven National Lab helped in the design of the muon identifier for PHENIX. I assisted in monitoring the experiment and performed detector maintenance and repair.

Teaching Experience:

• Georgia State University

I taught the senior/graduate level electronics lab for four years. I have also taught many of the general physics laboratories.

• Midlands Technical College

I taught algebra based physics courses and their labs.

• University of South Carolina

I supervised the entire introductory level Astronomy program. I directed the optical and radio observatories. I edited several physics and astronomy study guides.

Engineering Experience:

• Columbia Research Corporation(CRC)

I assisted in the validation and verification effort for the Advanced Tactical Air Command Central program. CRC also upgraded the Sensor Monitoring Central (SMC) and the Communication and Data Analysis Central (CDAC) shelters which were components of the Intelligence Analysis System. I was a team leader for the the upgrade of these shelters. I tested and repaired the shelter radios and receivers. The SMC and CDAC shelters were used and performed well in Operation Desert Storm.

Publications in Journals

V. M. Abazov *et al.* [D0 Collaboration], “Search for right-handed W bosons in top quark decay,” *Phys. Rev. D* **72**, 011104 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Search for single top quark production in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Lett. B* **622**, 265 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the p anti-p \rightarrow W gamma + X cross section at $s^{*(1/2)} = 1.96\text{-TeV}$ and W W gamma anomalous coupling limits,” *Phys. Rev. D* **71**, 091108 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of inclusive differential cross sections for Upsilon(1S) production in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. Lett.* **94**, 232001 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Study of Z gamma events and limits on anomalous Z Z gamma and Z gamma gamma couplings in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. Lett.* **95**, 051802 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “First measurement of $\sigma(\text{p anti-p} \rightarrow \text{Z}) \times \text{Br}(\text{Z} \rightarrow \text{tau tau})$ at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. D* **71**, 072004 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Search for first-generation scalar leptoquarks in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. D* **71**, 071104 (2005).

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).

V. M. Abazov *et al.* [D0 Collaboration], “A search for the flavor-changing neutral current decay $\text{B}/\text{s}0 \rightarrow \mu^+ \mu^-$ in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$ with the D0 detector,” *Phys. Rev. Lett.* **94**, 071802 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the ratio of B+ and B0 meson lifetimes,” *Phys. Rev. Lett.* **94**, 182001 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the Lambda/b0 lifetime in the decay $\text{Lambda}/\text{b}0 \rightarrow \text{J}/\text{psi Lambda}0$ with the D0 detector,” *Phys. Rev. Lett.* **94**, 102001 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “A search for W b anti-b and W H production in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. Lett.* **94**, 091802 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the W W production cross section in p anti-p collisions at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. Lett.* **94**, 151801 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “A measurement of the ratio of inclusive cross sections $\sigma(\text{p p} \rightarrow \text{Z} + \text{b-jet})/\sigma(\text{p p} \rightarrow \text{Z} + \text{jet})$ at $s^{*(1/2)} = 1.96\text{-TeV}$,” *Phys. Rev. Lett.* **94**, 161801 (2005).

V. M. Abazov *et al.* [D0 Collaboration], “Measurement of the top quark mass in all-jet events,” *Phys. Lett. B* **606**, 25 (2005).

- V. M. Abazov *et al.* [D0 Collaboration], "Measurement of dijet azimuthal decorrelations at central rapidities in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$," Phys. Rev. Lett. **94**, 221801 (2005).
- V. M. Abazov *et al.* [D0 Collaboration], "Measurement of the B/s0 lifetime in the exclusive decay channel $B/s0 \rightarrow J/\psi \text{ Phi}$," Phys. Rev. Lett. **94**, 042001 (2005).
- 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).
- V. M. Abazov *et al.* [D0 Collaboration], "A precision measurement of the mass of the top quark," Nature **429**, 638 (2004).
- V. M. Abazov *et al.* [D0 Collaboration], "Observation and properties of the X(3872) decaying to $J/\psi \text{ pi}^+ \text{ pi}^-$ in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$," Submitted to Phys. Rev. Lett., arXiv:hep-ex/0405004.
- 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 anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$," Submitted to Phys. Rev. Lett., arXiv:hep-ex/0404015.
- V. M. Abazov *et al.* [D0 Collaboration], "Helicity of the W boson in lepton + jets t anti-t events," Phys. Lett. B **617**, 1 (2005).
- V. M. Abazov *et al.* [D0 collaboration], "Search for Pair Production of Light Scalar Top Quarks in p-pbar Collisions at $\sqrt{s}=1.8 \text{ TeV}$," Phys. Rev. Lett. **93**, 011801 (2004)
- V. M. Abazov *et al.* [CDF Collaboration], "Combination of CDF and D0 results on W boson mass and width," Phys. Rev. D **70**, 092008 (2004).
- V. M. Abazov *et al.* [D0 collaboration], "Search for 3- and 4-body decays of the scalar top quark in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$," Phys. Lett. B **581**, 147 (2004).
- V. M. Abazov *et al.* [D0 Collaboration], "Observation of diffractively produced W and Z bosons in anti-p p collisions at $s^{**}(1/2) = 1800\text{-GeV}$," Phys. Lett. B **574**, 169 (2003).
- 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)
- V. M. Abazov *et al.* [D0 Collaboration], "Search for narrow t anti-t resonances in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$," Phys. Rev. Lett. **92**, 221801 (2004).
- T. H. Chang *et al.* [FNAL E866/NuSea collaboration], "J/psi polarization in 800-GeV p Cu interactions," Phys. Rev. Lett. **91**, 211801 (2003).
- V. M. Abazov *et al.* [D0 Collaboration], "Search for large extra dimensions in the monojet + missing-E(T) channel at D0," Phys. Rev. Lett. **90**, 251802 (2003).
- J. C. Webb *et al.* [NuSea Collaboration], "Absolute Drell-Yan dimuon cross sections in 800-GeV/c p p and p d collisions," Submitted to Phys. Rev. Lett., arXiv:hep-ex/0302019.
- V. M. Abazov *et al.* [D0 Collaboration], "Multiple jet production at low transverse energies in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$," Phys. Rev. D **67**, 052001 (2003).

- V. M. Abazov *et al.* [D0 Collaboration], “Search for the production of single sleptons through R-parity violation in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Rev. Lett.* **89**, 261801 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “Search for mSUGRA in single electron events with jets and large missing transverse energy in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Rev. D* **66**, 112001 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Rev. D* **67**, 012004 (2003).
- V. M. Abazov *et al.* [D0 Collaboration], “Improved W boson mass measurement with the D0 detector,” *Phys. Rev. D* **66**, 012001 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “A direct measurement of W boson decay width,” *Phys. Rev. D* **66**, 032008 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “Search for leptoquark pairs decaying to $\nu\nu + \text{jets}$ in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Rev. Lett.* **88**, 191801 (2002).
- 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).
- V. M. Abazov *et al.* [D0 Collaboration], “The inclusive jet cross-section in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$ using the k(T) algorithm,” *Phys. Lett. B* **525**, 211 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “A search for the scalar top quark in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Rev. Lett.* **88**, 171802 (2002).
- V. M. Abazov *et al.* [D0 Collaboration], “Subject multiplicity of gluon and quark jets reconstructed with the k(T) algorithm in p anti-p collisions,” *Phys. Rev. D* **65**, 052008 (2002).
- 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 anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” *Phys. Lett. B* **517**, 299 (2001).
- V. M. Abazov *et al.* [D0 Collaboration], “The ratio of the isolated photon cross sections at $s^{**}(1/2) = 630\text{-GeV}$ and 1800-GeV ,” *Phys. Rev. Lett.* **87**, 251805 (2001).
- 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).
- V. M. Abazov *et al.* [D0 Collaboration], “Search for single top quark production at D0 using neural networks,” *Phys. Lett. B* **517**, 282 (2001).
- V. M. Abazov *et al.* [D0 Collaboration], “Search for first-generation scalar and vector leptoquarks,” *Phys. Rev. D* **64**, 092004 (2001).
- R. S. Towell *et al.* [FNAL E866/NuSea Collaboration], “Improved measurement of the anti-d/anti-u asymmetry in the nucleon sea,” *Phys. Rev. D* **64**, 052002 (2001).
- M. J. Leitch *et al.* [FNAL E866/NuSea collaboration], “Measurement of J/psi and psi’ suppression in p A collisions at $800\text{-GeV}/c$,” *Phys. Rev. Lett.* **84**, 3256 (2000).

M. A. Vasilev *et al.* [FNAL E866 Collaboration], “Parton energy loss limits and shadowing in Drell-Yan dimuon production,” *Phys. Rev. Lett.* **83**, 2304 (1999).

J. C. Peng *et al.* [E866/NuSea Collaboration], “anti-d/anti-u asymmetry and the origin of the nucleon sea,” *Phys. Rev. D* **58**, 092004 (1998).

E. A. Hawker *et al.* [FNAL E866/NuSea Collaboration], “Measurement of the light antiquark flavor asymmetry in the nucleon sea,” *Phys. Rev. Lett.* **80**, 3715 (1998).

Conference and Workshop Presentations

W.M. Lee, *D0 Run Status*, D0 Collaboration Meeting, FermiLab, Batavia, Illinois, 28 September 2005.

W.M. Lee, *D0 Run Report*, All D0 Meeting, FermiLab, Batavia, Illinois, 5 September 2005.

W.M. Lee, *High Luminosity Running*, Invited Plenary Talk, D0 Workshop, Vancouver, British Columbia, 13 June 2005.

W.M. Lee, *New D0 Results on QCD, New Phenomena, and B Physics*, FermiLab Users Meeting, FermiLab, Batavia, Illinois, 8 June 2005.

W.M. Lee, *D0 Run Report*, All D0 Meeting, FermiLab, Batavia, Illinois, 1 April 2005.

W.M. Lee, *D0 Operations Report*, D0 Collaboration Meeting, FermiLab, Batavia, Illinois, 2 March 2005.

W.M. Lee, *V13 Trigger Status*, Summer Physics Workshop, FermiLab, Batavia, Illinois, 27 July 2004.

W.M. Lee, *Trigger Meister Report*, Run 2B Trigger Software Workshop, FermiLab, Batavia, Illinois, 14 July 2004.

W.M. Lee, *The V13 Trigger List*, All D0 Meeting, FermiLab, Batavia, Illinois, 9 July 2004.

W.M. Lee, *The V13 Trigger List*, Run IIb Trigger Software Workshop, FermiLab, Batavia, Illinois, 11 May 2004.

W.M. Lee, *B physics at D0*, Lake Louise Winter Institute, Lake Louise, Canada, 15-21 February 2004.

W.M. Lee, *Data Quality and the Beam at D0*, Invited Plenary Talk, D0 Workshop, Beaune, France, 16-20 June 2003.

W.M. Lee, *Introduction to Luminosity and Beam effects at D0*, Chair Beam Session, D0 Workshop, Beaune, France, 16-20 June 2003.

W.M. Lee, *L2 STT status and quality monitoring* D0 Workshop, Beaune, France, 16-20 June 2003.

W.M. Lee, *An Impact Parameter Trigger for the D0 Experiment*, Computing in High Energy Physics, San Diego, California, 24-28 March 2003.

W.M. Lee, *CLuED0: Clustered Linux Environment at D0*, Computing in High Energy Physics, San Diego, California, 24-28 March 2003.

W.M. Lee, *Measurement of Polarization Observables in Υ and ψ Production with 800 GeV $p - Cu$ Collisions*, April Meeting of the American Physical Society, Albuquerque, New Mexico, 20-23 April, 2002, Bull. Am. Phys. Soc. **47** 123 (2002).

W.M. Lee, *The D0 Silicon Track Trigger*, April Meeting of the American Physical Society, Albuquerque, New Mexico, 20-23 April, 2002, Bull. Am. Phys. Soc. **47** 57 (2002).

W.M. Lee, *Nuclear Dependence in J/ψ and ψ' Production*, Centennial Meeting of the American Physical Society, Atlanta, Georgia, 20-26 March, 1999, Bull. Am. Phys. Soc. **44** 1417 (1999).

W.M. Lee, *Nuclear Dependence in J/ψ and ψ' Production*, Fall Meeting, Division of Nuclear Physics, American Physical Society, Santa Fe, New Mexico, 28-31 October, 1998, Bull. Am. Phys. Soc. **43** 1550 (1998).

W.M. Lee *et al.*, *Nuclear Dependence of J/ψ and ψ' Production*, International Nuclear Physics Conference 1998, **Nucl. Phys. A** (in press), B. Frois, ed., Paris, France, 24-28 August, 1998.

W.M. Lee, *Measurement of the J/ψ Nuclear Dependence: Fermilab E866*, APS/AAPT Joint April Meeting Program, Columbus, Ohio, 18-21 April, 1998, Bull. Am. Phys. Soc. **43** 1179 (1998).

W.M. Lee, *Nuclear Effects on J/ψ Production*, New Perspectives Conference, Fermi National Lab, Batavia, Illinois, 18 July, 1997.

Publications in Conference Proceedings

C. A. Gagliardi *et al.* [FNAL E866/NuSea Collaboration], "Measurement Of The Absolute Drell-Yan Dimuon Cross Sections In 800-GeV/C P P And P D Collisions," Nucl. Phys. A **721**, 344 (2003).

M. A. Vasilev *et al.* [FNAL-E866/NuSea Collaboration], "J/Psi, Psi' And Drell-Yan Nuclear Dependence In 800-GeV/C P - A Collisions," AIP Conf. Proc. **549**, 346 (2002).

J. C. Webb *et al.* [FNAL-E866/NuSea Collaboration], "Measurement Of Drell-Yan Cross-Sections And Flavor Asymmetry In The Nucleon Sea," AIP Conf. Proc. **549**, 532 (2002).

P. E. Reimer *et al.*, "Measurement of polarization observables in Upsilon and psi production with 800-GeV $p + Cu$ collisions," *Prepared for International Nuclear Physics Conference (INPC 2001): Nuclear Physics and the 21st Century, Berkeley, California, 30 Jul - 3 Aug 2001*

V. M. Abazov *et al.* [D0 Collaboration], "Improved D0 W boson mass determination," arXiv:hep-ex/0106018.

V. M. Abazov *et al.* [D0 Collaboration], "The inclusive jet cross section in p anti-p collisions at $s^{*}(1/2) = 1.8$ -TeV using the k(T) algorithm," arXiv:hep-ex/0106032.

V. M. Abazov *et al.* [D0 Collaboration], "Search for leptoquark pairs decaying to $\nu\nu + jets$ in p anti-p collisions at $s^{*}(1/2) = 1.8$ -TeV," arXiv:hep-ex/0106065.

- C. Gagliardi *et al.* [FNAL E866 and NuSea Collaborations], "Light Antiquark Flavor Asymmetry In The Nucleon Sea," Nucl. Phys. A **663**, 284 (2000).
- R. E. Tribble *et al.* [FNAL E866/NuSea Collaboration], "Nuclear Dependence Of Drell-Yan And J/Psi Production In Fnal E866," Nucl. Phys. A **663**, 761 (2000).
- M. A. Vasilev *et al.* [FNAL E866/NuSea Collaboration], "Proton induced Drell-Yan dimuon production at 800-GeV," *Prepared for International Conference and 8th Blois Workshop on Elastic and Diffractive Scattering (EDS 99), Protvino, Russia, 27 Jun - 2 Jul 1999*
- B. A. Mueller *et al.* [E866/NuSea Collaboration], "Measurement of the light quark flavor asymmetry in the nucleon sea," *In *Bloomington 1999, Physics with a high luminosity polarized electron ion collider* 174-185.*
- W. M. Lee *et al.* [E866/NuSea Collaboration], "Nuclear dependence of J/psi and psi' production," *Prepared for Centennial Celebration and Meeting of the American Physical Society (Combining Annual APS General Meeting and the Joint Meeting of the APS and the AAPT), Atlanta, Georgia, 20-26 Mar 1999*
- M. J. Leitch *et al.* [NuSea Collaboration], "J/Psi And Psi' Suppression In P A Collisions At 800-Gev/C," Nucl. Phys. A **661**, 554 (1999).
- C.A. Gagliardi *et al.*, \bar{d}/\bar{u} Asymmetry in the Nucleon Sea, International Nuclear Physics Conference 1998, Nucl. Phys. A, B. Frois, ed., Paris, France, 24-28 August, 1998.
- M.J. Leitch *et al.*, *Vector Meson Production and Nuclear Effects in FNAL E866*, XIV ISHEPP, Dubna, Russia, Aug, 1998.
- C.A. Gagliardi *et al.*, \bar{d}/\bar{u} Asymmetry in the Nucleon Sea, XIV ISHEPP, Dubna, Russia, Aug, 1998.
- J.C. Peng *et al.*, *Measurements of the Light Quark Flavor Asymmetry in the Nucleon Sea*, ICHEP 98, Vancouver, B.C., Canada, July, 1998.
- R.S. Towell *et al.*, *New Results from Fermilab E866: Flavor Asymmetry in the Nucleon Sea and Nuclear Effects in J/psi Production*, **XXXIII'nd Moriond Conference: '98 QCD and High Energy Hadronic Interactions**, J. Tran Thanh Van, ed., Moriond, France, March 1998 (Editions Frontiere, 1998)
- M.A. Vasiliev *et al.*, *Measurement of the Flavor Asymmetry in the Nucleon Sea*, Lake Louise Winter Institute on Quantum Chromodynamics, Lake Louise, Alberta, Feb, 1998.
- R.E. Tribble *et al.*, *Measurement of the \bar{u}/\bar{d} Asymmetry in the Proton*, ISS97, Tashkent, Oct, 1997.
- P.E. Reimer *et al.*, *A Preliminary Measurement of the \bar{u}/\bar{d} Asymmetry in the Proton Sea*, **AIP Conference Proceedings 412: Intersections between Particle and Nuclear Physics**, T.W. Donnelly, ed., Big Sky, Montana, May 1997 (Woodbury, NY: AIP Press, 1997) 643.
- E.A. Hawker *et al.*, *Measuring the \bar{u}/\bar{d} Asymmetry in the Proton Sea: Fermilab E866*, **XXXII'nd Moriond Conference: '97 QCD and High Energy Hadronic Interactions**, J. Tran Thanh Van, ed., Moriond, France, March 1998 (Editions Frontiere, 1998) 387.

Internal and Technical Reports

V. M. Abazov *et al.* [D0 Collaboration], "Run IIb upgrade technical design report," FERMILAB-PUB-02-327-E

W.M. Lee, *More Information on Tracks that Pass Through the STOV Board*, D0 Note 3987, (October 2001)

W.M. Lee, *Calculating the Nuclear Dependence from the E866 Data Sets*, (April 1998)

W.M. Lee, M.J. Leitch, P.L. McGaughey, *Making Trigger Matrix Files for E866*, (April 1997)

W.M. Lee, *Observations About the Event Monitor and Packets*, (March 1997)

W.M. Lee, X. He, *Level 3 Input Controller Implementation Notes* and six other technical notes describing the Level 3 trigger modules, (April-May 1996)

W.M. Lee, *Test Plan and Procedures for the Sensor Monitoring Central*, (1990)

W.M. Lee, *Sensor Monitoring Central Engineering Change Proposal*, (1990)

W.M. Lee, *Technical Specification Deficiencies of the Advanced Tactical Air Command Central*, (1990)

Awards and Memberships

1997-1998 Outstanding Advanced Senior Graduate Student Award, Georgia State University

Member: American Physical Society

Member: ΣΠΣ