

Curriculum Vitae
Dr. Linda R. Coney

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Education:

2000: **Ph.D., Physics, University of Notre Dame**

Thesis: "Diffractive W and Z Boson Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1800$ GeV."

1997: **M.A., Physics, University of Notre Dame**

1993: **B.S., Physics and Mathematics (Magna Cum Laude), Hope College**

Academic Positions:

July 2008-Current: Project Scientist, University of California, Riverside
2007-August 2007: Visiting Assistant Professor of Physics, Hope College
2005-2006: Fermilab Guest Scientist with Columbia University
2001-2005: Postdoctoral Research Associate, Columbia University
2000: Postdoctoral Research Associate, University of Notre Dame
1993-2000: Graduate Student, University of Notre Dame
1995-2000: Research Assistant
1994-1995: Teaching Assistant
1993-1994: Arthur J. Schmitt Presidential Fellow
1991-1993: Teaching Assistant, Hope College
1990-1993: Research Assistant, Atomic Physics Group, Hope College

Awards:

Arthur J. Schmitt Presidential Fellowship, University of Notre Dame, 1993-1994
Douwe B. Yntema Prize in Physics, Hope College, 1993
Senior Sigma Xi Award for Physics, Hope College, 1993
Phi Beta Kappa Honor Society, Hope College, 1993

Professional Committees:

2004-2005: APS Neutrino Study Booklet Committee
2002-2003: Organizing Committee, NuFact03 Workshop
2001: Young Physicist Forum Committee member, Snowmass 2001
2001-present: Young Particle Physicists (YPP) member
1997-1999: Fermilab Users' Executive Committee member

Chair of Quality of Life Subcommittee
Chair of Younger Physicists Issues Subcommittee
Outreach and Education Subcommittee member
Annual Users' Meeting Subcommittee member

Research Experience:

- MiniBooNE Experiment (E898), member 2001-present: MiniBooNE is a neutrino experiment at Fermilab designed to look for oscillations from muon neutrinos to electron neutrinos. The Fermilab Booster provides an intense beam of 8.9 GeV/c protons onto a target producing pions which decay and result in a beam of muon neutrinos. These neutrinos are directed toward the MiniBooNE detector where a search for electron neutrinos is performed.
 - Participated in HARP experiment to measure pion production on MiniBooNE target and reduce systematic uncertainties on MiniBooNE neutrino flux.
 - Led Columbia University HARP group and guided research of graduate students.
 - Supervised data taking at HARP for MiniBooNE.
 - Directed research of REU (Research Experience for Undergraduates) student searching for supernova neutrinos using the MiniBooNE detector.
 - Tested and developed diagnostic system to monitor accelerator devices in Booster and identify instabilities.
 - Integrated new diagnostic system into permanent data logger to allow long term machine performance studies.
 - Participated in project to use ramped dipole correctors in Booster to control beam motion. Used new correctors to reduce beam losses near sensitive equipment.
 - Explored resonant extraction of beam halo as method to reduce uncontrolled beam loss.
 - Measured beam parameters of 8.9 GeV/c proton accelerator including tune shift, beam position, and beam loss through resonances.
 - Performed muon cooling beam simulations to test neutrino factory designs.
 - Authored and edited technical documents using Latex, MS Powerpoint, MS Word, and Adobe Illustrator.
 - Experienced in UNIX, LINUX, Microsoft Windows NT, VMS, Fortran, C++, JAVA, HTML, GEANT4, ICOOL, emacs, vi, CVS, LSF, and data analysis languages (ROOT, PAW).

- HARP (Hadron Production Experiment at CERN - PS214) member 2001-present: HARP is a fixed target experiment at the CERN PS. This large acceptance spectrometer is used to systematically study hadron production for protons incident upon a large range of target nuclei. Specifically, π^+ and π^- production cross sections are measured directly from the MiniBooNE target to reduce systematic uncertainties on the MiniBooNE neutrino flux.

- Enabled measurement of cross section backgrounds by identifying need for empty target data for each HARP target.
 - Ensured high data quality by calculating appropriate beam settings and monitoring spectrometer detectors.
 - Led HARP Production Group which provided data and Monte Carlo samples to entire collaboration for calibration and analysis purposes.
 - Recognized need for well-defined, stepwise method for modification of HARP reconstruction and analysis software. Implemented systematic procedure to make well understood changes to HARP software.
 - Coordinated data management on three continents while maintaining data quality and consistency of production methods.
 - Developed system to enable remote-site HARP analysis at Fermilab, Los Alamos National Lab, and universities in Europe and Japan.
 - Measured pi^+ production cross section in p-Al collisions at 12.9 GeV/c which were used to reduce systematic error in K2K neutrino flux.
 - Measured pi^+ production cross section in p-Be collisions at 8.9 GeV/c which were incorporated into the MiniBooNE neutrino oscillation analysis in order to reduce systematic error in MiniBooNE neutrino flux.
 - Created accurate material geometries for HARP GEANT4 simulation code.
 - Analyzed, tuned, and validated simulations of HARP threshold Cerenkov detector.
 - Developed particle momentum estimator to increase number of available tracks in cross section calculation.
- DØ Experiment, member 1995-2004: DØ is a collider experiment at the Fermilab Tevatron where studies are done on phenomena resulting from $p\bar{p}$ collisions at a center of mass energy of nearly 2 TeV. The detector is geared primarily toward the investigation of large p_T phenomena. Top quark analyses, precision measurements of W and Z bosons, perturbative QCD testing, and new hard diffraction studies are all done at DØ .
 - Identified first diffractive Z boson production in $p\bar{p}$ collisions. Measured diffractive component of W and Z boson production in $p\bar{p}$ collisions.
 - Developed extensive Monte Carlo (PYTHIA, POMPYT26) studies to investigate validity of pomeron exchange as driving mechanism for diffractive W and Z production.
 - Calculated diffractive dijet production rates predicted by pomeron models using PYTHIA and POMPYT26 for the hard single diffraction analysis.
 - Performed detailed studies regarding electromagnetic energy scale variation between Monte Carlo (ISAJET) and data for DØ calorimeter energy scale determination.
 - Discovered miscalculation of reconstructed photon energies which degraded calibration of jet response.
 - Implemented photon energy scale correction which dramatically improved DØ jet response calculation.

- Directed Central Fiber Tracker(CFT) fiber lightguide quality control project for the DØ RunII upgrade.
- Trained and supervised shift personnel including graduate students, faculty members, high school teachers, and Fermilab technicians.
- Developed testing procedure using X-ray source and scintillating fiber ribbons to measure production quality of lightguides fabricated for CFT. Analyzed data to determine pass/fail status of each detector component.
- Performed light attenuation and radiation damage studies on scintillating fibers.

Teaching Experience:

- Taught calculus-based General Physics class.
- Instructed undergraduates in General Physics laboratory classes.
- Taught general physics Discussion Section to provide students with additional preparation for tests.
- Led homework and test preparation help sessions for undergraduate physics students.
- Supervised REU undergraduate students working on accelerator and neutrino physics for MiniBooNE.
- Trained undergraduate student to work in UNIX environment, use ROOT, and run Mini-BooNE analysis framework while performing search for supernova neutrinos.
- Mentored physics majors as faculty advisor for Hope College SPS.
- Taught scientific method and research documentation techniques to high school teachers in the Quarknet and Fermilab TRAC (Teacher Research Associates) program.
- Lectured at engineering physics review sessions.
- Tutored individual pre-med and engineering general physics students.
- Instructed introductory level physics labs for pre-med and engineering students.

Communications and Administration:

- Co-Directed Hope College Research Experience for Undergraduates program for 2007.
- Served as faculty advisor for Society of Physics Students at Hope College.
- Interfaced with perspective Hope College students interested in engineering and physics.
- Participated in writing of grant proposals for both Columbia University neutrino physics group and for an independent particle physics educational outreach program.
- Organized and hosted NuFact03 conference at Columbia University.
- Worked as scientific secretary for ALCPG07 workshop at Fermilab.

- Served as elected member of Fermilab Users' Executive Committee (UEC).
- Addressed members of Congress, Presidential Budget Office representatives, and Department of Energy personnel to promote high energy physics research done at Fermilab.
- Planned and ran 1998-1999 annual Fermilab Users' Meeting.
- Instituted and organized accelerator overview lecture series at Fermilab.
- Conceptualized and organized accelerator physics summer school at Fermilab.
- Implemented summer school accelerator shifts in Fermilab Main Control Room to provide students with practical experience in accelerator operations.
- Arranged career planning workshop for Fermilab graduate students and post-docs.

Conference and Workshop participation:

- 2008: Beach2008 - The 8th International Conference on Hyperons, Charm, and Beauty Hadrons
- 2007: ALCPG07: American Linear Collider Physics Group, ILC Global Design Group Joint Workshop
- 2007: Pheno2007 Symposium: Prelude to the LHC
- 2007: American Physical Society April Meeting: APS 2007
- 2005: Workshop on the Future of Nuclear Physics at LANSCE, Los Alamos
- 2004: Meeting of the Division of Particles and Fields: DPF 2004
- 2004: Neutrino 2004
- 2003: Neutrino Factory Workshop 2003: NuFACT03
- 2003: Particle Accelerator Conference (PAC)
- 2002: Neutrino Factory Workshop 2002 : NuFACT02
- 2002: US Particle Accelerator School (USPAS) (2002, 2001)
- 2001: Particle Accelerator Conference (PAC)
- 2001: Snowmass 2001: E1, M1, T3 Working group member

Conference Presentations and Seminars:

- Beach2008 - The 8th International Conference on Hyperons, Charm, and Beauty Hadrons, Columbia, SC, June 2008: *Hadron Production Results from the HARP Experiment*
- Pheno2007 Symposium: Prelude to the LHC, Madison, WI, May 2007: *MiniBooNE and Pion Production Measurements at HARP*

- Hope College, Physics and Engineering Seminar, March 2007: *Neutrino Physics with Mini-BooNE and HARP: How to Do Experiments with Invisible Particles!*
- Los Alamos National Laboratory, P-25 Seminar, June 2006: *Recent Results from the HARP Experiment*
- Meeting of the Division of Particles and Fields (DPF2004), Riverside, CA, August 2004: *HARP for MiniBooNE*
- Rutherford Appleton Laboratory, Particle Physics Seminar, Didcot, England, June 2004: *Status Report on the MiniBooNE Experiment*
- Fermi National Accelerator Laboratory, Summer Student Seminar, July 2003: *The HARP Experiment and MiniBooNE*
- Particle Accelerator Conference (PAC2003), Portland, OR, May 2003: *Fermilab Booster Orbit Correction*
- National Science Foundation, Accelerator Physics at Universities, Washington D.C., April 2003: *Columbia University Accelerator Physics*
- 4th International Workshop on Neutrino Factories based on Muon Storage Rings (NuFACT02), Imperial College, London, England, July 2002: *MiniBooNE Beam Systematics*
- Los Alamos National Laboratory, P-25 Seminar, April 2002: *Diffractionally Produced W and Z Bosons*
- Columbia University, Physics Graduate Student Seminar, New York, NY, March 2002: *Neutrino Factory: International Muon Ionization Cooling Experiment*
- APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, CO, July 2001: *Young Particle Physicists (YPP) Outreach: Plans and Conclusions*
- New Perspectives Conference, Fermi National Accelerator Laboratory, July 1999: *Diffractional W Boson Production at DØ*
- XIth Rencontres de Blois - Frontiers of Matter, Chateau de Blois, France, June 1999: *Hard Diffraction at the Tevatron*
- APS Centennial Meeting, Atlanta, Georgia, March 1999: *Diffractional W Production at DØ*
- APS/AAPT Joint Meeting, Columbus, OH, April 1998: *Hard Diffraction at DØ*
- DØ Collaboration Workshop, Boston, MA, June 1996: *Photon Correction to MPF (Missing Et Projection Fraction) Jet Response*
- APS/AAPT Joint Meeting, Indianapolis, IN, May 1996: *The Hadronic Energy Scale of DØ Calorimetry*

Outreach Activities:

- 2008: Served as scientific advisor to middle school students participating in Michigan Science Olympiad.

- 2007: Toured Fermilab with physics and engineering majors in Hope College SPS.
- 2007: Participated in faculty calling night to encourage minority students interested in physics and engineering to attend Hope College.
- 2005: Hosted second annual Fermilab Girl Scout Workshop. Led “Ask a Scientist” and explained lab scientific activities to over 100 grade school and high school scouts.
- 2005: Served as scientific advisor to “Science and Religion” class held at First Reformed Church of Holland, MI.
- 2005: Judged middle school science fair at Neuqua Valley High School in Naperville, IL.
- 2004: Participated in first Fermilab Girl Scout Workshop.
- 2004: Lectured Hope College physics and engineering majors visiting Fermilab on particle physics and accelerators at Fermilab.
- 2003: Led Girls Scientific Salon at Fermilab involving junior high school girls in hands-on physics experiments.
- 2002: Tutored for Partners in Education (PIE) program for children living in economically disadvantaged neighborhoods in Chicago through Fourth Presbyterian Church.
- 2002: Created and performed interactive demonstration program on Light and Color designed for grade school students.
- 2001-2002: Developed National Science Foundation proposal with Young Particle Physicists (YPP) to create and distribute particle physics instructional kits for primary school students.
- 2000: Mentored high school teachers in QuarkNet and Teacher Research Associates (TRAC) programs at Fermilab working on DØ experiment.

Publications with Significant Input:

- “Measurement of the production cross-section of positive pions in the collision of 8.9 GeV/c protons on beryllium”, M. G. Catanesi *et al.*(HARP Collaboration), hep-ph/0110027 (2007).
- “Measurement of the production cross-section of positive pions in p - Al collisions at 12.9 GeV/c”, M. G. Catanesi *et al.*(HARP Collaboration), Nuclear Physics B **732**, (2006).
- “Particle identification algorithms for the HARP forward spectrometer”, M. G. Catanesi *et al.*(HARP Collaboration), Nucl. Instrum. Meth. A572:899-921, (2007).
- “Fermilab Booster Orbit Correction.”, (L. Coney, J. Monroe, W. Pellico, and E. Prebys), in *Proceedings of the 2003 Particle Accelerator Conference* ed. J. Chew, P. Lucas, and S. Webber (2003).
- “Observation of diffractively produced W and Z bosons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **574**, 169 (2003); hep-ex/0308032, FERMILAB-PUB-03-233-E.

- “Hard Single Diffraction in $p\bar{p}$ Collisions at $\sqrt{s} = 630$ and 1800 GeV”, B. Abbott *et al.*, Phys. Lett. B **531**, 52 (2002); FERMILAB-Pub-99/373-E; hep-ex/9912061.
- “Young Physicists’ Forum.”, (T. Adams *et al.*), in *Proceedings of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)* ed. R. Davidson and C. Quigg, eprint Archive: hep-ph/0110027 (2001).
- “Determination of the Absolute Jet Energy Scale in the DØ Calorimeters”, B. Abbott *et al.*, Nucl. Instrum. Methods Phys. Res. A **424**, 352 (1999); FERMILAB-Pub-97/330-E; hep-ex/9805009.

Publications with Important Contributions:

- “Large-angle production of charged pions by 3-12 GeV/c protons on carbon, copper and tin targets”, M. G. Catanesi *et al.* (HARP Collaboration), Eur.Phys.J. C (2007).
- “Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets”, M. G. Catanesi *et al.* (HARP Collaboration), Eur.Phys.J. C (2008) [arXiv:0709.3458].
- “Measurement of the production cross-sections of π^{+-} in p-C and π^{+-} -C interactions at 12 GeV/c”, M. G. Catanesi *et al.* (HARP Collaboration), Astropart. Phys. (2008), [arXiv:0802.0657].
- “Measurement of the production of charged pions by protons on a tantalum target”, M. G. Catanesi *et al.* (HARP Collaboration), arXiv:0706.1600 [hep-ex], June 2007 (Submitted to Eur.Phys.J.C.).
- “The Neutrino Flux Prediction at MiniBooNE”, A. A. Aguilar-Arevalo *et al.* (MiniBooNE Collaboration), arXiv:0806.1449 [hep-ex], Submitted to Phys. Rev. D.
- “Measurement of Muon Neutrino Quasi-Elastic Scattering on Carbon”, A. A. Aguilar-Arevalo *et al.* (MiniBooNE Collaboration), Phys. Rev. Lett. **100**, 032301 (2008).
- “A Search for Electron Neutrino Appearance at the $\Delta m^2 \sim 1$ eV² Scale”, A. A. Aguilar-Arevalo *et al.* (MiniBooNE Collaboration), arXiv:0704.1500 [hep-ex], Phys. Rev. Lett. **98**, 231801 (2007).
- “The HARP Detector at the CERN PS”, M. G. Catanesi *et al.* (HARP Collaboration), Nuclear Instrum. Meth. A, **571** (2006).
- “Probing hard color-singlet exchange in $\bar{p}p$ collisions at $\sqrt{s}=630$ GeV and 1800 GeV.”, B. Abbott *et al.*, Phys. Lett. B **440**, 189 (1998); FERMILAB-Pub-98/285-E; hep-ex/9809016.
- “Extraction of the width of the W boson from measurements of $\sigma(p\bar{p} \rightarrow W + X) \times \text{Br}(W \rightarrow e\nu)$ and $\sigma(p\bar{p} \rightarrow Z + X) \times \text{Br}(Z \rightarrow ee)$ and their ratio”, B. Abbott *et al.*, Phys. Rev. D **61**, 072001 (2000); FERMILAB-Pub-99/171-E; hep-ex/9906025.
- “The Inclusive Jet Cross Section in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **82**, 2451 (1999); FERMILAB-Pub-98/207-E; hep-ex/9807018.

Other Publications:

- “The ratio of jet cross sections at $\sqrt{s}=630$ and 1800 GeV”, B. Abbott *et al.*, Phys. Rev. Lett. **86**, 2523 (2001); FERMILAB-Pub-00/213-E, hep-ex/0008072.
- “Search for 3- and 4-Body Decays of the Scalar Top Quark in Proton- Antiproton Collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **581**, 144 (2004); FERMILAB-PUB-03-306-E.
- “Multiple jet production at low transverse energies in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Rev. D **67**, 052001 (2003); FERMILAB-Pub-02/153-E, hep-ex/0207046.
- “Search for large extra dimensions in the monojet + \cancel{E}_T channel with the DØ detector”, V. M. Abazov *et al.*, Phys. Rev. Lett. **90**, 251802 (2003); hep-ex/030214.
- “ $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Rev. D **67**, 012004 (2003); hep-ex/0205019.
- “Subjet multiplicity of gluon and quark jets reconstructed with the k_{\perp} algorithm in $p\bar{p}$ collisions”, V. M. Abazov *et al.*, Phys. Rev. D **65**, 052008 (2002); FERMILAB-Pub-01/248-E; hep-ex/010854.
- “The inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the k_{\perp} algorithm”, V. M. Abazov *et al.*, Phys. Lett. B **525**, 211 (2002); FERMILAB-Pub-01/290; hep-ex/019041.
- “Search for R-parity violating supersymmetry in two-muon and four-Jet Channel”, V. M. Abazov *et al.*, Phys. Rev. Lett. **89**, 171801 (2002), FERMILAB-Pub-01/352-E; hep-ex/0111053.
- “Search for Leptoquark Pairs Decaying to $\nu\nu+$ jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **88**, 191801 (2002); FERMILAB-Pub-01/349-E; hep-ex/0111047.
- “A direct measurement of the W boson width”, V. M. Abazov *et al.*, Phys. Rev. D **66**, 032008 (2002); FERMILAB-Pub-02/063-E, hep-ex/0204009.
- “Improved W boson mass measurement with the DØ detector”, V. M. Abazov *et al.*, Phys. Rev. D **66**, 012001 (2002); FERMILAB-Pub-02/055-E, hep-ex/0204014.
- “Search for minimal supergravity in single electron events with jets and large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, V. M. Abazov *et al.*, Phys. Rev. D **66**, 112001 (2002); FERMILAB-Pub-02/074-E, hep-ex/0205002.
- “Search for production of single sleptons through R-Parity violation in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett **89**, 261801 (2002); hep-ex/0207100.
- “A search for the scalar top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **88**, 171802 (2002); FERMILAB-Pub-01/233-E, hep-ex/0108018.
- “Direct Search for Charged Higgs Bosons in Decays of Top Quarks”, V. M. Abazov *et al.*, Phys. Rev. Lett. **88**, 151803 (2002); FERMILAB-Pub-01/022-E; hep-ex/0102039.

- “Search for Large Extra Dimensions in Dielectron and Diphoton Production”, B. Abbott *et al.*, Phys. Rev. Lett. **86**, 1156 (2001); FERMILAB-Pub-00/210-E, hep-ex/0008065.
- “Ratios of Multijet Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s}=1800$ GeV”, B. Abbott *et al.*, Phys. Rev. Lett. **86**, 1955 (2001); FERMILAB-Pub-00/218-E, hep-ex/0009012.
- “Measurement of the Angular Distribution of Electrons from $W \rightarrow e\nu$ Decays Observed in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. D **63**, 072001 (2001); FERMILAB-Pub-00/228-E, hep-ex/0009034.
- “Differential Cross Section for W Boson Production as a function of Transverse Momentum in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Lett. B **513**, 292, (2001). FERMILAB-Pub-00/268-E, hep-ex/0010026.
- “Inclusive jet production in $p\bar{p}$ collisions”, B. Abbott *et al.*, Phys. Rev. Lett. **86**, 1707 (2001); FERMILAB-Pub-00/271-E, hep-ex/0011036.
- “A Quasi-Model-Independent Search for New High p_T Physics at DZero”, B. Abbott *et al.*, Phys. Rev. Lett. **86**, 3712 (2001); FERMILAB-Pub-00/304-E; hep-ex/0011071.
- “A Quasi-Model Independent Search for New Physics at Large Transverse Momentum”, V. M. Abazov *et al.*, Phys. Rev. D **64**, 012004 (2001); FERMILAB-Pub-00/302-E, hep-ex/0011067.
- “High- p_T Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 630$ and 1800 GeV”, B. Abbott *et al.*, Phys. Rev. D **64**, 032003 (2001); FERMILAB-Pub-00/216-E, hep-ex/0012046.
- “Search for Heavy Particles Decaying into Electron-Positron Pairs in $p\bar{p}$ Collisions”, V. M. Abazov *et al.*, Phys. Rev. Lett. **87**, 061802 (2001); FERMILAB-Pub-01/024-E; hep-ex/0102048.
- “Search for First-Generation Scalar and Vector Leptoquarks”, V. M. Abazov *et al.*, Phys. Rev. D **64**, 092004 (2001); FERMILAB-Pub-01/057-E; hep-ex/0105072.
- “Search for New Physics Using QUAERO: A General Interface to DZero Data”, V. M. Abazov *et al.*, Phys. Rev. Lett. **87**, 012004 (2001); FERMILAB-Pub-01/105-E; hep-ex/0106039.
- “Search for Single Top Production at DZero Using Neural Networks”, V. M. Abazov *et al.*, Phys. Lett. B **517**, 282 (2001); FERMILAB-Pub-01/102-E; hep-ex/0106059.
- “Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum”, V. M. Abazov *et al.*, Phys. Lett. B. **517**, 299 (2001); FERMILAB-Pub-01/212-E, hep-ex/0107102.
- “The ratio of isolated photon cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 630$ and 1800 GeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **87**, 251805 (2001); FERMILAB-Pub-01/239-E, hep-ex/0106026.
- “Search for Electroweak Production of Single Top Quarks in $p\bar{p}$ Collisions”, B. Abbott *et al.*, Phys. Rev. D Rapid Comm. **63** 031101 (2001); FERMILAB-Pub-00/188-E, hep-ex/000824.

- “A Search for Dilepton Signatures from Minimal Low-energy Supergravity in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. D Rapid Comm. **63**, 091102 (2001); FERMILAB-Pub-00/042-E; hep-wx/9907048v2.
- “The $b\bar{b}$ production cross section and angular correlations in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Lett. B **487**, 264 (2000); FERMILAB-Pub-99/144-E; hep-ex/9905024.
- “Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum produced in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. D **61**, 032004 (2000); FERMILAB-Pub-99/197-E; hep-ex/9907009.
- “Small angle muon and bottom quark production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 5478 (2000); FERMILAB-Pub-99/202-E; hep-ex/9907029.
- “A measurement of the W boson mass using large rapidity electrons”, B. Abbott *et al.*, Phys. Rev. D **62** 092006, (2000); FERMILAB-Pub-99/237-E; hep-ex/9908057.
- “Differential production cross section of Z bosons as a function of transverse momentum at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 2792 (2000); hep-ex/9909020.
- “A measurement of the W boson mass using electrons at large rapidities”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 222 (2000); FERMILAB-Pub-99/259-E; hep-ex/9909030.
- “Search for second generation leptoquarks in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 2088 (2000); FERMILAB-Pub-99/314-E; hep-ex/9910040.
- “The isolated photon cross section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 2786 (2000); FERMILAB-Pub-99/354-E; hep-ex/9912017.
- “Probing BFKL Dynamics in Dijet Cross Section at Large Rapidity Intervals in $p\bar{p}$ Collisions at $\sqrt{s} = 1800$ and 630 GeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 5722 (2000); FERMILAB-Pub-99/363-E; hep-ex/9912032.
- “Limits on Anomalous $WW\gamma$ and WWZ Couplings from $WW/WZ \rightarrow e\nu jj$ Production”, B. Abbott *et al.*, Phys. Rev. D **62**, 052005 (2000); hep-ex/9912033.
- “A measurement of the $W \rightarrow \tau\nu$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV”, B. Abbott *et al.*, Phys. Rev. Lett. **84**, 5710 (2000); FERMILAB-Pub-99/373-E; hep-ex/9912065.
- “Limits on Quark Compositeness from High Energy Jets in $p\bar{p}$ Collisions at 1.8 TeV”, B. Abbott *et al.*, Phys. Rev. D Rapid Communication **62**, 031101 (2000); FERMILAB-Pub-99/357-E; hep-ex/9912023.
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