

## CURRICULUM VITAE – Paul D. Grannis

*August 25, 2022*

### **EDUCATION:**

B. Eng. Phys., with Distinction, Cornell University (1961)

Ph.D. University of California, Berkeley (1965)

Thesis: *Measurement of the Polarization Parameter in Proton-Proton Scattering from 1.7 to 6.1 BeV* Advisor, Owen Chamberlain

### **EMPLOYMENT:**

Research Professor of Physics, State Univ. of New York at Stony Brook, 2007 –

Distinguished Professor Emeritus, State Univ. of New York at Stony Brook, 2007 –

Chair, Department of Physics and Astronomy, Stony Brook, 2002 – 2005

Distinguished Professor of Physics, State Univ. of New York at Stony Brook, 1997 – 2006

Professor of Physics, Stony Brook, 1975 – 1997

Associate Professor of Physics, Stony Brook, 1969 – 1975

Assistant Professor of Physics, Stony Brook, 1966 – 1969

Research Associate, Lawrence Radiation Laboratory, 1965 – 1966

**AWARDS:**

Danforth Foundation Fellow, 1961 – 1965

Alfred P. Sloan Foundation Fellow, 1969 – 1971

Fellow, American Physical Society, 1987

Fellow, American Association for the Advancement of Science, 2000

Exceptional Teaching Award, Stony Brook, 1992

Exceptional Service Award, U.S. Department of Energy, 1997

John S. Guggenheim Fellowship, 2000 – 2001

American Physical Society W.K.H. Panofsky Prize, 2001

Honorary Doctor of Science, Ohio University, 2009

W. V. Houston Memorial Lectureship, Rice University 2012

Foreign member, Russian Academy of Science, 2016

Co-winner with the members of the DØ Collaboration,  
European Physical Society High Energy Particle Physics Prize, 2019

## **OTHER ACTIVITIES:**

Visiting Scientist, Rutherford Laboratory UK, 1969 – 70

Visiting Scientist, CERN, 1973

Visiting Senior Science Research Council Scientist University College London, 1976

Brookhaven National Laboratory Program Advisory Committee, 1975 – 77

SLAC Program Advisory Committee, 1980 – 82

Chairman, Gordon Conference on Elementary Particles, 1983

Spokesman and co-Project Director, DØ Experiment, 1983 - 1993

Guest Scientist, Fermilab, 1983 – 1996

Advisory Committee for Physics, National Science Foundation, 1985 – 88

Panel for Initial Complement of Experiments for the SSC, 1985 – 86

Lawrence Berkeley Laboratory Director's Review Committee for High Energy Physics, 1989 – 92 (chair 1992)

American Physical Society, Panofsky Prize Selection Committee 1990 – 92, 2002

University of Chicago Review Committee for Argonne National Laboratory High Energy Physics Division, 1989 –92; chair 1992

Cornell Electron Synchrotron Rings Program Advisory Committee, 1992 – 94; chair 1994

SSC Laboratory Program Advisory Committee, 1992 – 93

Co-Spokesman, DØ Experiment, 1993 – 1996

Scientific Associate, CERN 1994

Executive Committee, Division of Particles and Fields, American Physical Society; 1995 – 1998, chair 1997

Chair, American Physical Society/AAPT Meeting, 1998

U.S. ATLAS Project Advisory Panel 1997 – 1998

High Energy Physics Advisory Panel (HEPAP), 1997 – 1998

HEPAP Subpanel on Future Directions, 1997 – 1998

Universities Research Association, Board of Overseers for Fermilab, 1998 – 2004

Theoretical Advanced Study Institute Scientific Advisory Board, 1996 – 2003

Stanford University, SLAC Science Policy Committee, 1998 – 2002; chair 2002

Chair, Scientific Advisory Comm., Hadron Collider Physics XII Conf., 1997

Co-Chair US Working Group for Physics and Detectors of  $e^+e^-$  Linear Colliders, 1999 – 2002

HEPAP Panel on Planning for U.S. High Energy Physics, 2000

PPARC Fellow, Imperial College London (UK), 2001

HEPAP Subpanel on Outreach and Public Relations, 2002

Editorial Board for Physical Review D, 2002 – 2005

International Linear Collider Steering Committee (ILCSC), 2002 – 2005, 2011 – 2013

International Linear Collider Steering Committee subcommittee on Parameters and Scope, 2003, 2006

International Technology Recommendation Panel for choice of technology for the Linear Collider, 2003 – 2004

ILCSC search committee for the Central Team director (chair), 2004 – 2005

International Advisory Committee, ILC Accelerator School, 2005 – 2016

US Department of Energy, Office of Science, High Energy Physics  
Program Manager for International Linear Collider, 2005 – 2007

Funding Agencies for Large Colliders, Technology Benefits working group chair 2007 – 2008

International Detector Advisory Group for ILC detectors, 2008 – 2013

American Phys. Soc. review committee for Reviews of Modern Physics, 2009

Chair, Linear Collider Steering Group of the Americas, 2010 – 2013

External Review Committee, Department of Physics and Astronomy,  
Iowa State University, 2011

Review committee for CLIC detector concepts, 2011

Review committee for Scientific Capability for the  
Long Baseline Neutrino Experiment detector concepts, 2011

DØ Institutional Board deputy chair 2011 – 12, chair 2012 – 13

APS Division of Particle and Fields, DOE University Grants panel 2012

Associate Editor for High Energy Physics, Reviews of Modern Physics, 2013 – 2019

Member, Americas Linear Collider Committee, 2013 –

Chair, Committee of Visitors review of the DOE High Energy Physics program, 2013

Chair, Review Committee of the University of Oregon Physics Department 2013

Chair, Advisory Committee for Physics and Detectors, Linear Collider Organization, 2013 – 2016

Co-spokesman DØ Experiment, 2014 –

Committee of Visitors review of the DOE High Energy Physics program, 2016

NSF review panel for LIGO Operations, 2017

Chair, HEPAP subpanel on portfolio review of operating HEP experiments, 2018

Consulting Editor, Physical Review X, 2019

Chair, ATLAS Operations review, Brookhaven Lab, 2019

sPHENIX PD-2/3 review, Brookhaven Lab, 2019, 2020

Chair, ATLAS Operations review, Brookhaven Lab, 2021

Chair, Review Committee for Final Design Report for U.S. Atlas High Luminosity LHC,  
Brookhaven Lab, 2022

(over 590 publications in peer reviewed journals)

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## Publications

1. “Electrostatic Erosion Mechanisms on the Moon”, P. Grannis, J. Geophys. Res. 66, 4293, 1961.
2. “Polarization Parameter in  $p - p$  Scattering from 328 to 736 MeV”, F. Betz *et al.*, Phys. Rev. 148, 1289, 1966.
3. “Polarization Parameter in  $p - p$  Scattering from 1.7 to 6.1 BeV”, P. Grannis *et al.*, Phys. Rev. 148, 1297, 1966.
4. “Polarization in Pion-Proton Scattering from 670 - 3300 MeV/c”, O. Chamberlain *et al.*, Phys. Rev. Letters 17, 975, 1966.
5. “Measurement of the  $\Sigma^-$  Polarization in the Reaction  $\pi^- p \rightarrow \Sigma^- K^+$ ”, D. Weldon *et al.*, Phys. Rev. 167B 1199, 1968.
6. “Experimental Determination of the  $K\Sigma N$  Parity Using a Polarized Target”, B. Dieterle *et al.*, Phys. Rev. 167, 1190, 1968.
7. “Study of the Reactions  $\pi^+ p \rightarrow K^+ \Sigma^+$  and  $K^+ Y^{*+}$  between 3.5 and 14 GeV/c”, A. Bashian *et al.*, Phys. Rev. D, 2667, 1971.
8. “Search for Peripheral  $K^+$  Production in  $\pi^- p$  Interactions from 2.75 to 10 GeV/c”, A. Bashian *et al.*, Phys. Rev. D, 2680, 1971.
9. “Measurement of the Total Proton-Proton Cross-Section at the ISR”, S.R. Amendolia *et al.*, Phys. Letters 44B, 119, 1973.
10. “Experimental Tests of Limiting Fragmentation at the ISR”, G. Bellettini *et al.*, Phys. Letters 45B, 69, 1973.
11. “Total Cross-Section Measurement at the ISR”, S.R. Amendolia *et al.*, Nuovo Cimento 17A, 735, 1973.
12. “A Measurement of the Charge Asymmetry in the Decay  $\eta \rightarrow \pi^+ \pi^- \pi^0$ ”, M.R. Jane *et al.*, Phys. Letters, 48B, 260, 1974.
13. “A Measurement of the Charge Asymmetry in the Decay  $\eta \rightarrow \pi^+ \pi^- \gamma$ ”, M.R. Jane *et al.*, Phys. Letters, 48B, 265, 1974.
14. “Measurement of Inclusive Two-Particle Rapidity Correlations at the ISR”, S.R. Amendolia *et al.*, Phys. Letters, 48B, 359, 1974.

15. “Differential Cross-Section Measurement for Backward  $\pi^+p$  Scattering from 3.25 to 10 GeV/c”, A. Bashian *et al.*, Phys. Rev. D9, 3193, 1974.
16. “Backward  $\bar{p}p$  Charge Exchange from 1 to 3 GeV/c”, J. Storer *et al.*, Phys. Rev. Letters 32, 950, 1974.
17. “Measurement of Charged Particles Multiplicities Associated with Large Transverse Momentum Photons in Proton-Proton Collisions”, G. Finocchiaro *et al.*, Phys. Letters 50B, 396, 1974.
18. “Precision Measurement of Proton-Proton Total Cross Section at the CERN Intersecting Storage Rings”, U. Amaldi *et al.*, Nucl Phys. 145B, 367, 1978.
19. “Measurement of Small Angle Elastic Scattering of Pions and Protons from Nuclei”, H.R. Blieden *et al.*, Phys. Rev. D11, 14, 1975.
20. “Measurement of Two-Particle Semi-Inclusive Rapidity Distributions at the CERN ISR”, S.R. Amendolia *et al.*, Nuovo Cimento 31, 17, 1976.
21. “A Measurement of the Electromagnetic Form Factor of the Eta Meson”, M.R. Jane *et al.*, Phys. Letters 59B, 99, 1975.
22. “A New Upper Limit for the Branching Ratio for the Decay  $\eta \rightarrow \pi^0 e^+ e^-$ ”, M.R. Jane *et al.*, Phys. Letters 59B 103, 1975.
23. “Correlations of Secondaries in Events with a Forward Neutron at the ISR”, U. Amaldi *et al.*, Phys. Letters 58B, 213, 1975.
24. “Correlation of Secondaries in Events with a Forward Negative Hadron at the ISR”, U. Amaldi *et al.*, Phys. Letters 58B, 206, 1975.
25. “New Measurements of Proton-Proton Total Cross Section at the CERN Intersecting Storage Rings”, U. Amaldi *et al.*, Phys. Letters 62B, 460, 1976.
26. “Charged-Particle Multiplicities Associated with Large Transverse Momentum Photons”, R. Kephart *et al.*, Phys. Rev. D14, 2909, 1976.
27. “Inclusive  $\pi^-$  and  $\eta$  Production in 24 GeV/c pp Collisions”, E.W. Beier *et al.*, Phys. Rev. Letters 37, 1114, 1976.
28. “Anomalous Production of Direct Electrons at 10, 15, and 24 GeV/c”, E.W. Beier *et al.*, Phys. Rev. Letters 37, 1117, 1976.

29. "Associated Multiplicities in Proton-Proton Collisions with a Charged Hadron at  $x=0$  at the CERN ISR", G. Bellettini *et al.*, Nuovo Cimento 42, 85, 1977.
30. "Pion Production at High Transverse Momentum in 24 GeV Proton - Proton Collisions", E.W. Beier *et al.*, Phys. Rev. D13, 2235, 1978.
31. "Measurement of Electron and Pion Cascades in a Lead Acrylic Scintillator Shower Detector", G.W. Abshire *et al.*, Nucl. Instr. and Meth. 164, 67 1979.
32. "Antiproton-Proton Charge Exchange between 1 and 3 GeV/c", D. Cutts *et al.*, Phys. Rev. D17, 16, 1978.
33. "Angular Dependence of High  $p_T$   $\pi^0$  Production", D. Lloyd Owen *et al.*, Phys. Rev. Letters 45, 89, 1980.
34. "Low Cost Lead Glass Cerenkov Detectors", D.E. Jaffe, P. D. Grannis and M.D. Marx, Nucl. Instr. and Meth. 188, 239, 1981.
35. "Low Mass Pair Anomaly in 17 GeV/c  $\pi^-$ -p Collisions", J. Stekas, *et al.*, Phys. Rev. Letters 47, 1686, 1981.
36. "Measurement of the Antiproton-Proton Total Cross-Section and Elastic Scattering at the CERN Intersecting Storage Rings", G. Carboni *et al.*, Phys. Letters 108B, 145, 1982.
37. "Evidence of a Rise in the Antiproton-Proton Total Cross Section at the CERN Intersecting Storage Rings", G. Carboni *et al.*, Phys. Lett. 113B, 87, 1982.
38. "Measurement of Elastic Scattering in Antiproton-Proton Collisions at 52.8 GeV Centre of Mass Energy", M. Ambrosio *et al.*, Phys. Lett. 115B, 495, 1982.
39. "Total and Elastic Cross-Sections and Global Event Characteristics in  $\bar{p}$ -p and  $p-p$  Collisions at  $\sqrt{s} = 53$  GeV", M. Ambrosio, *et al.*, Proceedings of III Topical Workshop on Forward Collider Physics (AIP, 1982).
40. "Anomalous Electron Pair Production in 17 GeV/c  $\pi^-$ -p Collisions", M.R. Adams, *et al.*, Phys. Rev. D27, 1977, 1983.
41. "Response of a Highly Segmented Extruded Lead Glass Calorimeter to Electrons and Pions Between 15 and 45 GeV/c", R. Engelmann *et al.*, Nucl. Instr. and Meth. 216, 45 1983.



42. “New Particles and Interactions”, F.J. Gilman and P.D. Grannis, Proceedings of the DPF Workshop on  $\bar{p}$ - $p$  Options for the Supercollider, (Feb. 1984) p. 233-277, ed. J.E. Pilcher and A.R. White.
43. “Radiation Damage Studies of Cerium-Doped Radiation-Resistant Lead Glass Detectors”, M.R. Adams, *et al.*, Nucl. Instr. and Meth. A238, 333, 1985.
44. “Precise Measurements of Antiproton Proton and Proton-Proton Total Cross Sections at the CERN Intersecting Storage Rings”, G. Carboni *et al.*, Nucl. Physics B254, 697 (1985).
45. “Hadron Showers and Muon Trajectories in Thick Absorber from 25 GeV/c to 150 GeV/c”, D. Green, *et al.*, Nucl. Instr. and Meth. A244, 356, 1986.
46. “Hadron and Electron Response in a Uranium Liquid Argon Calorimeter from 10 – 150 GeV”, S. Aronson *et al.*, Nucl. Instr. and Meth. A269, 492, 1988.
47. “The DØ Detector at The Fermilab Collider”, P. Grannis, pp 253 -277, Les Rencontres de Physique de la Vallee d’Aoste (Editions Frontières), M. Greco ed., 1987.
48. “Hadron and Electron Response of Uranium/Liquid Argon Calorimeter Modules for the DØ Detector”, M. Abolins *et al.*, Nucl. Instr. and Meth. A280, 36, 1989.
49. “Physics Issues for Hadron Colliders in the 1990’s”, P. D. Grannis, High Energy Hadronic Collisions, ed. J. Tran Thanh Van, (Editions Frontières), 1990.
50. “Beam Tests of the DØ Uranium Liquid Argon End Calorimeters”, S. Abachi *et al.*, Nucl. Instr. and Meth. A324, 53, 1992.
51. “Design, Construction and Performance of the Electromagnetic Module of the DØ End Calorimeter”, H. Aihara *et al.*, Nuclear Inst. and Methods A325, 393, 1993.
52. “The DØ Detector”, S. Abachi *et al.*, Nucl. Instr. and Meth. A338, 185 (1994).
53. “First Generation Leptoquark Search in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 72, 965 (1994).
54. “Search for the Top Quark in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 72, 2138 (1994).
55. “Rapidity Gaps between Jets in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 72, 2332 (1994).

56. “State of Hadron Collider Physics; Summary of the 9th  $\bar{p}$ - $p$  Workshop”, P.D. Grannis, Proceedings of the 9th Topical Workshop of  $\bar{p}$ - $p$  Collider Physics, Tsukuba Japan, (October 1993), Universal Academy Press, Tokyo Japan, ed. K. Kondo and S. Kim.
57. “Measurement of the Time Dependence of  $B_d^0 \leftrightarrow \bar{B}_d^0$  Mixing using Leptons and  $D^{*\pm}$  Mesons”, R. Akers *et al.*, Phys. Letters B336, 585 (1994).
58. “Observation of Exclusive Decays of B Mesons at LEP”, R. Akers *et al.*, Phys. Letters B337, 196 (1994).
59. “Search for Rare Hadronic  $B$  Decays”, R. Akers *et al.*, Phys. Letters B337, 393, (1994).
60. “Search for a Scalar Top Quark using the OPAL Detector”, R. Akers *et al.*, Phys. Letters B337, 207 (1994).
61. “Updated Measurement of the  $\tau$  Lifetime”, R. Akers *et al.*, Phys. Letters B338, 497 (1994).
62. “Measurements of the Inclusive Branching Ratios of  $\tau$ -Leptons to  $K_S^0$  and Charged  $K^*(892)$ ”, R. Akers *et al.*, Phys. Letters B339, 278 (1994).
63. “Search for Neutral Higgs Bosons in the Minimal Supersymmetric Extension of the Standard Model”, R. Akers *et al.*, Z. Phys. C64, 1 (1994).
64. “Measurement of the Tau Lepton Polarization and its Forward-Backward Asymmetry from  $Z^0$  Decays”, R. Akers *et al.*, Z. Phys. C65, 1 (1995).
65. “Measurement of  $\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons})$  using a Double Tagging Method”, R. Akers *et al.*, Z. Phys. C65, 17 (1994).
66. “Determination of Event Shape Distributions and  $\alpha_s^b$  from  $Z^0 \rightarrow b\bar{b}$  Events at LEP”, R. Akers *et al.*, Z. Phys. C65, 31 (1995).
67. “Measurement of Single Photon Production in  $e^+e^-$  Collisions near the  $Z$  Resonance”, R. Akers *et al.*, Z. Phys. C65, 47 (1995).
68. “Determination of an Upper Limit for the Mass of the  $\tau$ -Neutrino at LEP”, R. Akers *et al.*, Z. Phys. C65, 183 (1995).

69. “A Measurement of the QCD Colour Factor Ratios  $C_A/C_F$  and  $T_F/C_F$  from Angular Correlations in Four-Jet Events”, R. Akers *et al.*, *Z. Phys.* C65, 367 (1995).
70. P.D. Grannis, “Search for the Top Quark: Results from the DØ Experiment”, Proceedings of the XXVII International Conference on High Energy Physics, Glasgow Scotland (July 1994), Institute of Physics Publishing, ed. P.J. Bussey and I.G. Knowles.
71. “Search for High Mass Top Quark Production in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 74, 2422 (1995).
72. “Observation of the Top Quark”, S. Abachi *et al.*, *Phys Rev. Letters* 74, 2632 (1995).
73. “Inclusive  $\mu$  and  $b$ -Quark Production Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 74, 3548 (1995).
74. “Search for Squarks and Gluinos in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 75 618, 1995.
75. “Search for  $W$  Boson Pair Production in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 75, 1023, 1995.
76. “Limits on the  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 75, 1028, 1995.
77. “Measurement of the  $WW\gamma$  Gauge Boson Coupling in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 75, 1034, 1995.
78. “ $W$  and  $Z$  Boson Production in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, *Phys. Rev. Letters* 75, 1456 (1995).
79. “A Study of the Strong Coupling Constant Using  $W +$  Jets Processes”, S. Abachi *et al.*, *Phys. Rev. Letters*, 75, 3226 (1995).
80. “Top Quark Search with the DØ 1992 – 93 Data Sample”, S. Abachi *et al.*, *Phys. Rev.* D52, 4877 (1995).
81. “Transverse Energy Distributions within Jets in  $\bar{p}$ - $p$  Collisions at 1.8 TeV”, S. Abachi *et al.*, *Phys. Letters* B357, 500 (1995).
82. “Search for Heavy  $W$  Bosons in 1.8 TeV  $p\bar{p}$  Collisions”, S. Abachi *et al.*, *Phys. Letters* B358, 405 (1995).

83. “Second Generation Leptoquark Search in  $\bar{p}$ - $p$  Collisions at 1.8 TeV”, S. Abachi *et al.*, Phys. Rev. Letters 75, 3618 (1995).
84. “Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in  $p\bar{p}$  Collisions at  $\sqrt{s}= 1800$  GeV with the DØ Detector”, S. Abachi *et al.*, Phys. Rev. D53, 6000 (1996).
85. “Jet Production via Strongly-Interacting Color-Singlet Exchange in  $\bar{p}$ - $p$  Collisions”, S. Abachi *et al.*, Phys. Rev. Letters 76, 734 (1996).
86. “Discovery of the Top Quark”, W. Carithers and P. Grannis, Beam Line 25, 12 (1995).
87. Particle Physics: perspectives and opportunities, World Scientific (Singapore, 1995); ed. R. Peccei, M. Zeller, D. Cassel, J. Bagger, R. Cahn, P. Grannis, F. Sciulli.
88. “Search for Light Top Squarks in  $\bar{p}$ - $p$  Collisions at 1.8 TeV”, S. Abachi *et al.*, Phys. Rev. Letters 76, 2222 (1996).
89. “Search for  $\widetilde{W}_1 \widetilde{Z}_2$  Production via Trilepton Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 76, 2228 (1996).
90. “Search for Right-Handed  $W$  Bosons and Heavy  $W'$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters, 76, 3271 (1996).
91. “ $J/\Psi$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Letters B370, 239 (1996).
92. “The Azimuthal Decorrelation of Jets Widely Separated in Rapidity”, S. Abachi *et al.*, Phys. Rev. Letters. 77, 595 (1996).
93. “The Isolated Photon Cross Section in the Central and Forward Rapidity Region in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 77, 5011 (1996).
94. “Search for Anomalous  $WW$  and  $WZ$  Production in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 77, 3303 (1996).
95. “Measurement of the  $W$  Boson Mass”, S. Abachi *et al.*, Phys. Rev. Letters 77, 3309 (1996).
96. “Search for Additional Neutral Gauge Bosons”, S. Abachi *et al.*, Phys. Letters B385, 471 (1996).

97. “Search for a Fourth Generation  $-1/3$  Quark via Flavor Changing Neutral Current Decay”, S. Abachi *et al.*, Phys. Rev. Letters 78, 3818 (1997).
98. “Limits on Anomalous  $WW\gamma$  Couplings from  $p\bar{p} \rightarrow W\gamma + X$  Events at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 78, 3634 (1997).
99. “Search for Top Squark Pair Production in the Dielectron Channel”, S. Abachi *et al.*, Phys. Rev. D57, 589 (1998).
100. “Search for Diphoton Events with Large Missing Transverse Energy in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, S. Abachi *et al.*, Phys. Rev. Letters 78, 2070 (1997).
101. “Study of the  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $Z(\nu\nu)\gamma$  Production”, S. Abachi *et al.*, Phys. Rev. Letters, 78, 3640 (1997).
102. “Direct Measurement of the Top Quark Mass”, S. Abachi *et al.*, Phys. Rev. Letters 79, 1197 (1997).
103. “Studies of Gauge Boson Pair Production and Trilinear Couplings”, S. Abachi *et al.*, Phys. Rev. D56, 6742 (1997).
104. “Measurement of the Top Quark Pair Production Cross Section in  $p\bar{p}$  Collisions”, S. Abachi *et al.*, Phys. Rev. Letters 79, 1203 (1997).
105. “Limits on  $WWZ$  and  $WW\gamma$  Couplings from  $p\bar{p} \rightarrow e\nu jjX$  Events at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters 79, 1441 (1997).
106. “Search for the Trilepton Signature from the Associated Production of SUSY  $\tilde{\chi}_1^\pm \tilde{\chi}_2^0$  Gauginos”, B. Abbott *et al.*, Phys. Rev. Letters 80, 1591 (1998).
107. “Color Coherent Radiation in Multijet Events from  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Letters B414, 419 (1997).
108. “Measurement of the Top Quark Mass Using Dilepton Events”, B. Abbott *et al.*, Phys. Rev. Letters 80, 2063 (1998).
109. “Measurement of Dijet Angular Distributions and Search for Quark Compositeness”, B. Abbott *et al.*, Phys. Rev. Letters 80, 666 (1998).
110. “Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in  $\bar{p}$ - $p$  Collisions”, B. Abbott *et al.*, Phys. Rev. Letters 79, 4321 (1997).
111. “Measurement of the  $W$  Boson Mass Using the  $D\bar{O}$  Detector at the Tevatron”, S. Abachi *et al.*, Phys. Rev. D58, 12002 (1998).

112. “Experimental Search for Chargino and Neutralino Production via Gauge-Mediated Supersymmetry Breaking Models ”, B. Abbott *et al.*, Phys. Rev. Letters 80, 442 (1998).
113. “ $Z\gamma$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV and Limits on Anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings ”, B. Abbott *et al.*, Phys. Rev. D57, 3817 (1998).
114. “Search for First Generation Scalar Leptoquark Pairs in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV ”, B. Abbott *et al.*, Phys. Rev. Letters 80, 2051 (1998).
115. “A Measurement of the  $W$  Boson Mass at the Fermilab Collider”, B. Abbott *et al.*, Phys. Rev. Letters 80, 3008 (1998).
116. “Determination of the Mass of the  $W$  Boson”, B. Abbott *et al.*, Phys. Rev. D58 092003 (1998).
117. “Search for the Decay  $b \rightarrow s\mu\mu$ ”, B. Abbott *et al.*, Phys. Letters B423, 419 (1998).
118. “Direct Measurement of the Top Quark Mass at DØ”, B. Abbott *et al.*, Phys. Rev. D58 052001 (1998).
119. “The Standard Model”, M.K. Gaillard, P.D. Grannis, F.J. Sciulli, Rev. Mod. Phys. 71 S96 (1999).
120. “Limits on  $WW\gamma$  and  $WWZ$  Couplings from  $W$  Boson Pair Production”, B. Abbott *et al.*, Phys. Rev. D58 051101 (1998).
121. “Measurement of the Shape of the Transverse Momentum Distribution of  $W$  Bosons Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV ”, B. Abbott *et al.*, Phys. Rev. Letters 80, 5498 (1998).
122. “Search for Charge 1/3 Third Generation Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters 81, 38 (1998).
123. “Search for Heavy Pointlike Dirac Monopoles”, B. Abbott *et al.*, Phys. Rev. Letters 81, 524 (1998).
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