

## CURRICULUM VITAE – Paul D. Grannis

January 26, 2023

### **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

Co-winner Best Article of 2015 in *Physics Uspekhi*

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)

Web page: [http://sbhepnt.physics.sunysb.edu/\[tilde\]grannis/home.html](http://sbhepnt.physics.sunysb.edu/[tilde]grannis/home.html)

e-mail: [paul.grannis@stonybrook.edu](mailto:paul.grannis@stonybrook.edu)

## 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).
124. “Determination of the Absolute Jet Energy Scale in the D0 Calorimeters”, B. Abbott *et al.* Nucl. Instrum. and Methods A424, 352 (1999).
125. “The D0 Detector at TeV33”, the DØ Collaboration, FERMILAB PUB-98/124-E, hepex/9804011.

126. “Limits on Anomalous  $WW\gamma$  and  $WWZ$  Couplings from  $W$  Boson Pair Production”, B. Abbott *et al.*, Phys. Rev. D58, 031102 (1998).
127. “The Inclusive Jet Cross Section in Antiproton-Proton Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters, 82, 2451 (1999).
128. “The Dijet Mass Spectrum and a Search for Quark Compositeness in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters 82, 2457 (1999).
129. “Small Angle  $J/\Psi$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters, 82, 35 (1999).
130. “Search for Squarks and Gluinos in Single-Photon Events with Jets and Large Missing Transverse Energy in  $p\bar{p}$  Collision at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters, 82, 29 (1999).
131. “Measurement of the top quark mass in the dilepton channel”, B. Abbott *et al.*, Phys. Rev. D60, 052001 (1999).
132. “Measurement of the top quark pair production cross section in  $p\bar{p}$  collisions using multijet final states”, B. Abbott *et al.*, Phys. Rev. D60, 012001 (1999).
133. “Probing Hard Color-Singlet Exchange in  $p\bar{p}$  Collisions at  $\sqrt{s} = 630$  GeV and 1800 GeV”, B. Abbott *et al.*, Phys. Letters B440, 189 (1998).
134. “Search for Nonstandard Higgs bosons Using High Mass Photon Pairs in  $p\bar{p}$  Collisions”, B. Abbott *et al.*, Phys. Rev. Letters 82, 2244 (1999).
135. “Search for High Mass Photon Pairs in  $p\bar{p} \rightarrow \gamma\gamma$  jet jet events at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Letters B, Sept. 1998.
136. “Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales”, B. Abbott *et al.*, Phys. Rev. Letters 82, 4769 (1999).
137. “Measurement of the Top Quark Pair Production Cross Section in the All-Jets Decay Channel”, B. Abbott *et al.*, Phys. Rev. Letters 83, 1908 (1999).
138. “Measurement of  $W$  and  $Z$  boson production cross sections”, B. Abbott *et al.*, Phys. Rev. D60, 052003 (1999).

139. “Search for Squarks and Gluinos in Events Containing Jets and a Large Imbalance in Transverse Energy”, B. Abbott *et al.*, Phys. Rev. Letters 83, 4937 (1999).
140. “Search for Charged Higgs Bosons in Decays of Top Quark Pairs”, B. Abbott *et al.*, Phys. Rev. Letters 82, 4975 (1999).
141. “Search for bottom squarks in pbarp collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. D60, 031101 (1999).
142. “Search for Second Generation Leptoquark Pairs Decaying to  $\mu\nu +$  jets in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, et al., Phys. Rev. Letters 83, 2896 (1999).
143. “Studies of  $WW$  and  $WZ$  Production and Limits on Anomalous  $WW\gamma$   $WWZ$  Couplings”, B. Abbott, et al., Physical Review D60 072002 (1999).
144. “The  $b\bar{b}$  Production Cross Section and Correlations in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, et al., Phys. Lett. B487, 264 (2000).
145. “Extraction of the Width of the  $W$  Boson from Measurements of  $\sigma(p\bar{p} \rightarrow W + X) \cdot B(W \rightarrow e\nu)$  and  $\sigma(p\bar{p} \rightarrow Z + X) \cdot B(Z \rightarrow ee)$  and their Ratio”, B. Abbott, et al., Phys. Rev. D61, 072001 (2000).
146. “Measurement of the 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. D61, 032004 (2000).
147. “A Measurement of the  $W$  Boson Mass using large Rapidity Electrons”, B. Abbott, et al., Physical Review D62, 92006 (2000).
148. “Evidence of Color Coherence Effects in  $W +$  Jets Events from  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Letters B464, 145 (1999).
149. “A Measurement of the  $W$  Boson Mass using Electrons at Large Rapidities”, B. Abbott, et al., Phys. Rev. Letters 84, 222 (2000).
150. “Small Angle Muon and  $b$ -Quark Production in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s}=1.8$  TeV”, B. Abbott, et al., Phys. Rev. Letters 84, 5478 (2000).
151. “Search for  $R$ -parity Violating Supersymmetry in the Dielectron Channel”, B. Abbott, et al., Phys. Rev. Letters 83, 4476 (1999).
152. “Search for Second Generation Leptoquark Pairs  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, et al., Phys. Rev. Letters 84, 2088 (2000).



153. “The Isolated Photon Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. Letters, 84, 2786 (2000).
154. “Limits on Anomalous  $WW\gamma$  and  $WWZ$  couplings from  $WW/WZ \rightarrow e\nu jj$  Production”, B. Abbott, *et al.*, Phys. Rev. D62, 52005 (2000).
155. “Probing BFKL Dynamics in the Dijet Cross Section at Rapidity Intervals in  $\bar{p}p$  Collisions at  $\sqrt{s}$  1800 and 630 GeV”, B. Abbott, *et al.*, Phys. Rev. Letters 84, 5722 (2000).
156. “Limits on Quark Compositeness from High Energy Jets in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. D62, 31101 (2000).
157. “A Measurement of the  $W \rightarrow \tau\nu$  Production Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. Letters 84 5710 (2000).
158. “Hard Single Diffraction in  $\bar{p}p$  Collisions at  $\sqrt{s} = 630$  and 1800 GeV”, B. Abbott, *et al.*, Phys. Letters B531, 52 (2001).
159. “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. Letters 84, 2792 (2000).
160. “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. D84, 091102 (2001).
161. “Spin Correlation in  $t\bar{t}$  Production from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. Letters, 85, 256 (2000).
162. “Search for  $R$ -parity Violation in Multilepton Final States in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. D62, 71701 (2000).
163. “Search for New Physics in  $e\mu X$  Data at  $D\bar{O}$  using Sleuth: A Quasi Model Independent Search Strategy for New Physics”, B. Abbott *et al.*, Phys. Rev. D62 , 92004 (2000).
164. “The Case for a 500 GeV  $e^+e^-$  Linear Collider”, J. Bagger *et al.*, hep-ex/0007022.
165. “Cross Section for  $b$ -jet Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott, *et al.*, Phys. Rev. Letters 85, 5068 (2000).
166. “Search for Electroweak Production of Single Top Quarks in  $\bar{p}p$  Collisions”, B. Abbott *et al.*, Phys. Rev. D63, 31101 (2001).

167. “Search for Large Extra Dimensions in Dielectron and Diphoton Production”, B. Abbott *et al.*, Phys. Rev. Letters 86, 1156 (2001).
168. “The Ratio of Jet Cross Sections at  $\sqrt{s} = 630$  GeV and 1800 GeV”, B. Abbott *et al.*, Phys. Rev. Letters 86, 2523 (2001).
169. “Ratios of Multijet Cross Sections in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. Letters 86, 1955 (2001).
170. “Measurement of the Angular Distribution of Electrons from  $W \rightarrow e\nu$  Decays Observed in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Rev. D63, 072001 (2001).
171. “Differential Cross Section for  $W$  Boson Production as a Function of Transverse Momentum in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 1.8$  TeV”, B. Abbott *et al.*, Phys. Letters B513, 292 (2001).
172. “Search for New Phenomena in Hadron Collisions” Physics at Extreme Energies, Proceedings of IVth Rencontres du Vietnam, Hanoi, Vietnam (July 2000), ed. Nguyen Van Hieu and J. Tran Thanh Van, p. 131 (2001).
173. “Inclusive Jet Production in  $\bar{p}$ - $p$  Collisions” B. Abbott *et al.*, Phys. Rev. Letters 86 1707 (2001).
174. “A Quasi-Model-Independent Search for New High  $p_T$  Physics at DØ” B. Abbott *et al.*, Phys. Rev. Letters 86, 3712 (2001).
175. “A Quasi-Model-Independent Search for New Physics at Large Transverse Momentum” B. Abbott *et al.*, Phys. Rev. D64, 012004 (2001).
176. “High  $p_T$  Jets in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s} = 630$  and 1800 GeV”, B. Abbott *et al.*, Phys. Rev. D64, 032003 (2001).
177. “Direct Search for Charged Higgs Bosons in Decays of Top Quarks”, V.M. Abazov *et al.*, Phys. Rev. Letters 88, 151803 (2002).
178. “Search for heavy particles decaying into electron positron pairs in  $\bar{p}$ - $p$  collisions”, V.M. Abazov *et al.*, Phys. Rev. Letters 87, 061802 (2001).
179. “Search for First-Generation Scalar and Vector Leptoquarks”, V.M. Abazov *et al.*, Phys. Rev. D64, 092004 (2001).
180. “Search for New Physics Using QUAERO: A General Interface to DØ Event Data”, V.M. Abazov *et al.*, Phys. Rev. Letters 87, 231801 (2001).

181. “Search for single top quark production at  $D\bar{O}$  using neural networks”, V.M. Abazov *et al.*, Phys. Lett. B517, 282 (2001).
182. “Measurement of the ratio of differential cross sections for  $W$  and  $Z$  boson production as a function of transverse momentum in  $\bar{p}p$  at  $\sqrt{s} = 1.8$  TeV” V.M. Abazov *et al.*, Phys. Letters B517, 299 (2001).
183. “A Search for the Scalar Top Quark in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV” V.M. Abazov *et al.*, Phys. Rev. Letters 88, 171802 (2002).
184. “The Ratio of Isolated Photon Cross Sections at  $\sqrt{s} = 630$  and 1800 GeV” V.M. Abazov *et al.*, Phys. Rev. Letters 87, 251805 (2001).
185. “Subjet multiplicity of gluon and quark jets reconstructed using the  $k_T$  algorithm in ppbar collisions” V.M. Abazov *et al.*, Phys. Rev. D65, 052008 (2002).
186. “The inclusive jet cross section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV using the  $k_T$  algorithm” V.M. Abazov *et al.*, Phys. Lett. B525, 211 (2002).
187. “Search for leptoquark pairs decaying to  $\nu\nu +$  jets in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV” V.M. Abazov *et al.*, Phys. Rev. Letters 88, 191801 (2002).
188. “Search for R-parity violating supersymmetry in dimuon and four jets channel”, V.M. Abazov *et al.*, Phys. Rev. Letters 89, 171801 (2002).
189. “Run Scenarios for the Linear Collider”, M. Battaglia, P.D. Grannis *et al.*, Proceedings of the Division of Particles and Fields and Division of Particle Beams Workshop on the Future of Particle Physics, Snowmass CO, July 2001; hep-ph/0201177.
190. “Linear Collider Physics; Resource Book for Snowmass 2001”, hep-ex/0106055 – /0106058 (2001).
191. “Improved  $W$  boson mass measurement with the  $D\bar{O}$  detector”, V.M. Abazov *et al.*, Phys. Rev. D66, 012001 (2002).
192. “Direct measurement of the  $W$  boson decay width”, V.M. Abazov *et al.*, Phys. Rev. D66, 032008 (2002).
193. “Search for mSUGRA in single electron events with jets and large missing transverse energy in  $\bar{p}p$  collisions at  $\sqrt{s}=1.8$  TeV” V.M. Abazov *et al.*, Phys. Rev. D66, 0112001 (2002).
194. “ $t\bar{t}$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” V.M. Abazov *et al.*, Phys. Rev. D67, 012004 (2003).

195. "A Run Scenario for the Linear Collider" P.D. Grannis, Proceedings of the International Workshop Linear Colliders, p. 680, Korean Physical Society, K.S. Kang and S.K. Oh editors (hep-ex/0211002).
196. "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. D67, 052001 (2003).
197. "Search for the 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. Letters 89, 261801 (2003).
198. "Search for large extra dimensions in the monojet plus missing transverse energy channel with the DØ detector" V.M. Abazov *et al.*, Phys. Rev. Letters 90, 251802 (2003).
199. "The DØ Central Track Trigger" R. Angstadt *et al.*, IEEE Transactions on Nuclear Science, 51, 345 (2004).
200. "Search for Narrow  $t\bar{t}$  Resonances in  $\bar{p}-p$  Collisions at  $\sqrt{s}=1.8$  TeV" V.M. Abazov *et al.*, Phys. Rev. Letters 92, 221801 (2004).
201. "Twenty years at the energy frontier" Paul Grannis, Fermi News 26 No. 15, 3 (2003).
202. "Particle Detectors: Detectors and Subsystems" Paul Grannis, *Building Blocks of Matter*, Supplement to the 1996 MacMillan Encyclopedia of Physics, ed. John S. Rigden, MacMillan Reference USA, 2003.
203. "Search for 3- and 4-body decays of the Scalar Top Quark in  $\bar{p}-p$  Collisions at  $\sqrt{s}=1.8$  TeV" V.M. Abazov *et al.*, Phys. Letters B581, 147 (2004).
204. "Observation of diffractively produced  $W$  and  $Z$  bosons in  $\bar{p}-p$  Collisions at  $\sqrt{s}=1.8$  TeV", V.M. Abazov *et al.*, Phys. Letters B574, 169 (2003).
205. "Search for Doubly-charged Higgs Boson Pair Production in the Decay to  $\mu^+\mu^+\mu^-\mu^-$  in  $\bar{p}-p$  Collisions at  $\sqrt{s}=1.96$  TeV", V.M. Abazov *et al.*, Phys. Rev. Letters 93, 141801 (2004).
206. "An Improved Measurement of the Top Quark Mass", V.M. Abazov *et al.*, Nature 429, 638 (2004).
207. "Search for new particles in the two-jet decay channel with the DØ detector", V.M. Abazov *et al.*, Phys. Rev. D69, 111101 (2004).

208. “Search for pair production of light scalar top quark pair production in  $\bar{p}$ - $p$  collisions at  $\sqrt{s} = 1.8$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 93, 011801 (2004).
209. “Observation and Properties of the X(3872) Decaying to  $J/\psi\pi^+\pi^-$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 93, 162002 (2004).
210. “Combination of CDF and DØ Results on  $W$  boson mass and width”, V.M. Abazov *et al.*, Phys. Rev. D70, 092008 (2004).
211. “Helicity of the  $W$  boson in Lepton + Jet  $t\bar{t}$  Events”, V.M. Abazov *et al.*, Phys. Lett. B617, 1 (2005).
212. “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at  $DØ$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 041801 (2005).
213. “Measurement of the  $B_S^0$  Lifetime in the Exclusive Decay Channel  $B_S^0 \rightarrow J/\psi\phi$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 042001 (2005).
214. “Search for Randall-Sundrum Gravitons in Dilepton and Diphoton Final States”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 091801 (2005).
215. Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in  $\bar{p}$ - $p$  Collisions at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 221801 (2005).
216. “A Measurement of the Ratio of Inclusive Cross Sections  $\sigma(p\bar{p} \rightarrow Z + b\text{-jet})/\sigma(p\bar{p} \rightarrow Z + \text{jet})$  at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 161801 (2005).
217. “Measurement of the Top Quark Mass in All-Jet Events”, V.M. Abazov *et al.*, Phys. Letters B606, 25 (2005)..
218. “First Measurement of  $\sigma(p\bar{p} \rightarrow Z)/\text{Br}(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D71, 072004 (2005); erratum *ibid* D77, 039901 (2008).
219. “A search for the Flavor-Changing Neutral Current decay  $B_S^0 \rightarrow \mu^+\mu^-$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 071802 (2005).
220. “Measurement of the Ratio of  $B^+$  and  $B^0$  Meson Lifetimes”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 182001 (2005).
221. “Measurement of the  $\Lambda_B$  Lifetime in the Decay  $\Lambda_B \rightarrow J/\psi\Lambda$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 102001 (2005) .

222. “A Search for  $Wbb$  and  $WH$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 091802 (2005).
223. “Measurement of the  $WW$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 151801 (2005); erratum *ibid* 100, 139901 (2008).
224. “A search for anomalous heavy-flavor quark production in association with  $W$  bosons”, V.M. Abazov *et al.*, Phys. Rev. Letters 94 152002 (2005).
225. “Search for first-generation scalar leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D71, 011104 (2005).
226. “Study of  $Z\gamma$  events and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 051802 (2005).
227. “Production of  $WZ$  Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV and Limits on Anomalous  $WWZ$  Couplings”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 141802 (2005).
228. “Search for neutral supersymmetric Higgs boson in multijet events at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 151801 (2005).
229. “Measurement of Inclusive Differential Cross Sections for  $\Upsilon(1S)$  production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 94, 232001 (2005); erratum *ibid* 100, 049902 (2008).
230. “Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons”, Phys. Rev. Letters 95 151805 (2005).
231. “Measurement of the  $p\bar{p} \rightarrow W\gamma + X$  cross section at  $\sqrt{s} = 1.96$  TeV and  $WW\gamma$  anomalous coupling limits”, V.M. Abazov *et al.*, Phys. Rev. D71, 091108 (2005).
232. “Measurement of the  $t\bar{t}$  Production Cross Section at  $\sqrt{s} = 1.96$  TeV using Kinematic Characteristics of Leptons + Jets Events”, V.M. Abazov *et al.*, Phys. Letters B626, 45 (2005)..
233. “Measurement of the  $t\bar{t}$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton plus jets events with lifetime  $b$ -tagging” V.M. Abazov *et al.*, Phys. Lett. 626, 35 (2005).
234. “Search for right-handed  $W$  bosons in top quark decay” V.M. Abazov *et al.*, Phys. Rev. D72, 011104 (2005).

235. “Search for single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV” V.M. Abazov *et al.*, Phys. Lett. B622, 265 (2005).
236. “Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using Lepton + Jets Events with Lifetime  $b$ -tagging” V.M. Abazov *et al.*, Phys. Lett. B626, 35 (2005).
237. “Measurement of Semileptonic Branching Fractions of  $B$  Mesons to Narrow  $D^{**}$  States” V.M. Abazov *et al.*, Phys. Rev. Letters 95, 171803 (2005).
238. “Measurement of the lifetime difference in the  $B_S$  system”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 171801 (2005).
239. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV in dilepton final states”, V.M. Abazov *et al.*, Phys. Lett. B626, 55 (2005).
240. “Search for large extra spatial dimensions in dimuon production at DØ”, V.M. Abazov *et al.*, Phys. Rev. Letters 95, 161602 (2005).
241. “The Upgraded DØ Detector”, V.M. Abazov *et al.*, Nucl. Instr. and Methods in Phys. Res. A565, 463, (2005).
242. “Search for the Higgs Boson in  $H \rightarrow WW^*$  Decays in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, Phys. Rev. Letters 96, 011801 (2006).
243. “Measurement of the Isolated Photon Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B639, 151 (2006); erratum *ibid* 658, 285 (2008).
244. “Search for Pair Production of Second Generation Scalar Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B636, 1873 (2006).
245. “Multivariate searches for single top quark production with the D0 detector” V.M. Abazov *et al.*, Phys. Rev. D74, 031107 (2006).
246. “Search for Squarks and Gluinos in Events with Jets and Missing Transverse Energy in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV” V.M. Abazov *et al.*, Phys. Letters B638, 119 (2006).
247. “Search for the Rare Decay  $B_s^0 \rightarrow \phi\mu^+\mu^-$  with the DØ Detector” V.M. Abazov *et al.*, Phys. Rev. D74, 031107 (2006).
248. “Direct Limits on the  $B_s^0$  Oscillation Frequency” V.M. Abazov *et al.*, Phys. Rev. Letters 97, 021802 (2006).

249. “Measurement of the  $B_s$  lifetime in semileptonic decays” V.M. Abazov *et al.*, Phys. Rev. Letters, 97 241801 (2006).
250. “Search for Particles Decaying to a  $Z$  Boson and a Photon in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B641, 415 (2006); erratum <http://www-d0.fnal.gov/Run2Physics/WWW/results/final/EW/E06A/> .
251. “Search for Excited Muons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D73, 111102 (2006).
252. “Search for R-parity Violating Supersymmetry via the LLE Couplings  $\lambda_{121}$ ,  $\lambda_{122}$  and  $\lambda_{123}$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B638, 441 (2006).
253. “Search for Neutral Higgs Bosons Decaying to Tau Pairs in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 121802 (2006).
254. “Search for Resonant Production of 2nd Generation Sleptons at the Tevatron”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 111801 (2006).
255. “Measurement of  $B(\rightarrow Wb)/B \rightarrow Wq$  at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B639, 616 (2006).
256. “Search for a heavy resonance decaying into a  $Z$  + jet final state in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Rapid Communications 74, 011104 (2006).
257. “Search for Scalar Leptoquarks in the Acoplanar Jet Topology”, V.M. Abazov *et al.*, Phys. Letters B640, 230 (2006).
258. “Search for neutral long-lived particles decaying into two muons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 161802 (2006).
259. “Search for associated Higgs boson production  $WH \rightarrow WWW^* \rightarrow \ell^\pm \ell'^\pm + X$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 151904 (2006).
260. “Search for the Standard Model Higgs Boson in the  $ZH \rightarrow \nu\nu bb$  channel”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 161803 (2006).
261. “Search for  $W'$  Boson Decay in the Top Quark Decay Channel”, V.M. Abazov *et al.*, Phys. Letters B641, 423 (2006).



262. “Limits on anomalous trilinear gauge couplings from  $WW \rightarrow ee$ ,  $WW \rightarrow e\mu$  and  $WW \rightarrow \mu\mu$  events from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D74, 057101 (2006).
263. “Search for Pair Production of Scalar Bottom Quarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV ”, V.M. Abazov *et al.*, Phys. Rev. Letters 97, 171806 (2006).
264. “Experimental Discrimination between charge  $2e/3$  top quark and  $4e/3$  exotic quark production scenarios”, V.M. Abazov *et al.*, Phys. Rev. Letters 98, 041801 (2007).
265. “Measurement of the ratios of the  $Z/\gamma^* + n$  jet production cross sections to the total inclusive  $Z/\gamma^*$  cross section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B658, 112 (2008).
266. “Measurement of the  $W$  boson helicity in top quark decay at  $D\bar{O}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters, 75 031102 (2007).
267. “Measurement of  $B_d$  mixing using opposite-side flavor tagging”, V.M. Abazov *et al.*, Phys. Rev D74, 112002 (2006).
268. “Measurement of the CP-violating parameter of  $B^0$  mixing and decay in  $p\bar{p} \rightarrow \mu\mu X$  data”, V.M. Abazov *et al.*, Phys. Rev D74, 092001 (2006).
269. “Measurement of the top quark mass in the lepton+jets final state with the matrix element method”, V.M. Abazov *et al.*, Phys. Rev. D74, 092005 (2006).
270. “Search for the Pair Production of Scalar Top Quarks in the Acoplanar Charm Jet Final State in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B645, 119 (2007).
271. “Measurement of the top quark mass in the dilepton channel”, V.M. Abazov *et al.*, Phys. Letters B655, 7 (2007).
272. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using secondary vertex  $b$  tagging”, V.M. Abazov *et al.*, Phys. Rev. D74, 112004 (2006).
273. “Search for single production of scalar leptoquarks decaying into muons and quarks”, V.M. Abazov *et al.*, Phys. Letters B647, 74 (2007).
274. “Search for techniparticles decaying into e+jets at  $D\bar{O}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 98 221801 (2007).

275. “Measurement of the  $p\bar{p}$  to  $t\bar{t}$  production cross section at  $\sqrt{s} = 1.96$  TeV in the fully hadronic decay channel”, V.M. Abazov *et al.*, Phys. Rev. D76, 072007.
276. “Evidence for production of single top quarks and first direct measurement of  $|V_{tb}|$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters (98 181902 (2007)).
277. “Lifetime Difference and CP-Violating Phase in the  $B_s^0$  System”, V.M. Abazov *et al.*, Phys. Rev. Letters 98, 121801 (2007).
278. “Measurement of the top quark mass in the lepton+jets channel using the Ideogram Method”, Phys. Rev. D 75, 092001 (2007).
279. “Measurement of the charge asymmetry in semileptonic  $B_S$  decays”, V.M. Abazov *et al.*, Phys. Rev. Letters 98 151801 (2007).
280. “Measurement of the shape of the boson rapidity distribution for  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow eeX$ ”, V.M. Abazov *et al.*, Phys. Rev. D 76, 012003 (2007).
281. “Search for third generation leptoquarks in  $p - \bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Lett. 99, 061801 (2007).
282. “Direct observation of the strange  $b$  baryon  $\Xi_b$ ”, V.M. Abazov *et al.*, Phys. Rev. Lett. 99, 052001 (2007).
283. “Search for a Higgs boson produced in association with a  $Z$  boson”, V.M. Abazov *et al.*, Phys. Lett. B655, 209 (2007).
284. “Search for stopped gluinos from  $p - \bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Lett. 99, 131801 (2007).
285. “ $Z\gamma$  production and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p - \bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B653, 378 (2007).
286. “Search for production of single top quarks via flavor-changing neutral currents at the Tevatron”, V.M. Abazov *et al.*, Phys. Rev. Lett. 99, 191802 (2007).
287. “Combined  $D\bar{D}$  Measurements Constraining CP-violating Phase and Width Difference in the  $B_s^0$  System”, V.M. Abazov *et al.*, Phys. Rev. D76, 057101 (2007).
288. “Measurement of the  $\Lambda_b$  lifetime in the exclusive decay  $\Lambda_b \rightarrow J/\psi\Lambda$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 99, 142001 (2007).

289. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV using kinematic characteristics of lepton + jets events”, V.M. Abazov *et al.*, Phys. Rev. D76, 092007 (2007).
290. “Observation and properties of L=1  $B_1$  and  $B_2^*$  Mesons”, V.M. Abazov *et al.*, Phys. Rev. Lett 99, 172001 (2007).
291. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions using dilepton events”, V.M. Abazov *et al.*, Phys. Rev. D76, 052006 (2007).
292. “Measurement of the  $\Lambda_b$  Lifetime in Semileptonic Decays”, V.M. Abazov *et al.*, Phys. Rev. Letters 99, 182001 (2007).
293. “Search for  $B_S^0 \rightarrow \mu^+\mu^-$  at DØ”, V.M. Abazov *et al.*, Phys. Rev. D76, 092001 (2007).
294. “Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B659, 500 (2008).
295. “Measurement of the  $p\bar{p} \rightarrow WZ + X$  Cross Section at  $\sqrt{s}=1.96$  TeV and Limits on  $WWZ$  Trilinear Gauge Couplings”, V.M. Abazov *et al.*, Phys. Rev. D76, 111104(R) (2007).
296. “Measurement of the muon charge asymmetry from  $W$  boson decays”, V.M. Abazov *et al.*, Phys. Rev. D77, 011106(R) (2008).
297. “Search for Randall-Sundrum Gravitons with  $1 \text{ fb}^{-1}$  of Data from  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 091802 (2008).
298. “Study of the decay  $B_s^0$  to  $D_s^*D_s^*$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 99, 241801 (2007).
299. “Search for Supersymmetry in Di-photon Final States at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B659, 856 (2008).
300. “Search for  $W'$  bosons decaying to an electron and neutrino with the DØ detector”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 031804 (2008).
301. “Observation and properties of the orbitally excited  $B_{s2}^*$  meson”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 082002 (2008).
302. “First measurement of the forward-backward charge asymmetry in top quark pair production”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 142002 (2008).

303. “A combined search for the standard model Higgs boson at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters, B663, 26 (2008).
304. “Measurement of the shape of the boson transverse momentum distribution in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$  events produced at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 102002 (2008).
305. “Model-independent measurement of the  $W$  boson helicity in top quark decays at  $D\bar{O}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters, 100, 062004 (2008) .
306. “Search for  $ZZ$  and  $Z\gamma^*$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and limits on anomalous  $ZZZ$  and  $ZZ\gamma^*$  couplings”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 121801 (2008).
307. “Search for Squark and Gluinos in Events with Jets and Missing Transverse Energy using  $2.1 \text{ fb}^{-1}$  of  $p\bar{p}$  Collision Data at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B660, 449 (2008).
308. “Measurement of the  $B_s^0$  Semileptonic Branching Ratio to an Orbitally Excited  $D_{s^{**}}$  State,  $\text{Br}(B_s^0 \rightarrow D_{s1}^-(2536)\mu + \nu X)$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 051801 (2009).
309. “Search for Flavor-Changing Neutral-Current  $D$  Meson Decays”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 101801 (2008).
310. “Search for Excited Electrons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D77, 091102 (2008).
311. “Simultaneous Measurement of the Ratio  $B(t \rightarrow WB)/B(t \rightarrow Wq)$  and the Top Quark Pair Production Cross Section with the D0 Detector at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 192003 (2008).
312. “Measurement of the  $B_s$  mixing parameters from the flavor-tagged decay  $B_s \rightarrow J/\psi\phi$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 241801 (2008).
313. “Measurement of the inclusive jet cross section in  $p\bar{p}$  scattering at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 062001 (2008).
314. “Study of direct CP violation in  $B^+$  to  $J/\psi K^\pm(\pi^\pm)$  decays”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 211802 (2008).
315. “Search for doubly-charged Higgs boson in the  $H^{++}H^{--}$  to  $\mu^+\mu^+\mu^-\mu^-$  final state at D0”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 071803 (2008).

316. “Evidence for production of single top quarks”, V.M. Abazov *et al.*, Phys. Rev. D78, 012005 (2008).
317. “Search for scalar neutrino superpartners in  $e + \mu$  final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters, 100, 241803 (2008).
318. “First study of the radiation-amplitude zero in  $W\gamma$  production and limits on anomalous  $WW\gamma$  couplings at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 241805 (2008).
319. “Observation of the  $B_c$  meson mass in the exclusive decay  $B_c \rightarrow J/\psi\pi$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 012001 (2008).
320. “Search for  $h_f \rightarrow \gamma\gamma$  with the DØ detector at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, accepted for publication to Phys. Rev. Letters.
321. “Search for large extra dimensions in the mono-photon final state at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 011601 (2008).
322. “Measurement of the ratio of the  $p\bar{p} \rightarrow W + c$ -jet cross section to the inclusive  $p\bar{p} \rightarrow W + \text{jets}$  cross section”, V.M. Abazov *et al.*, Phys. Letters B666, 23 (2008).
323. “Search for Scalar Top Quarks in the Acoplanar Charm Jets and Missing Transverse Energy Final State in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B655, 1 (2008).
324. “Search for  $W'$  boson resonances decaying to a top quark and a bottom quark”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 211803 (2008).
325. “Measurement of the differential cross section for the production of an isolated photon with associated jet in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, submitted for Phys. Letters B 666, 435 (2008).
326. “Relative rates of  $B$  meson decays into  $\psi(2S)$  and  $J/\psi$ ”, V.M. Abazov *et al.*, Phys. Rev. D79, 111102 (2009).
327. “Measurement of the lifetime of the  $B_C$  meson in the semileptonic decay channel”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 092001 (2009).
328. “Measurement of the polarization of the Upsilon(1S) and Upsilon(2S) states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 182004 (2008).

329. “Measurement of  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 100, 192004 (2008).
330. “Measurement of the forward-backward charge asymmetry and extraction of  $\sin^2(\theta_W^{\text{eff}})$  in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$  events produced at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 191801 (2008).
331. “Search for  $t\bar{t}$  resonances in the lepton plus jets final state in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B668, 98 (2008).
332. “Search for Higgs bosons decaying to tau pairs in  $p\bar{p}$  collisions with the DØ detector”, V.M. Abazov *et al.*, Phys. Rev. Letters, 101, 071804 (2008).
333. “Search for neutral Higgs bosons in multi- $b$ -jet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 221802 (2008).
334. “Search for a scalar or vector particle decaying into  $Z\gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B671, 349 (2009).
335. “Search for long-lived particles decaying into electron or photon pairs with the DØ detector”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 111802 (2008).
336. “Search for third generation scalar leptoquarks decaying into  $\tau b$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 241802 (2008).
337. “Search for charged Higgs bosons decaying to top and bottom quarks in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 191802 (2009).
338. “Search for anomalous  $Wtb$  couplings in single top quark production” V.M. Abazov *et al.*, Phys. Rev. Letters 101, 221801 (2008).
339. “Precise measurement of the top quark mass from lepton+jets events at 'd0", V.M. Abazov *et al.*, Phys. Rev. Letters 101, 182001 (2008).
340. “Measurement of the electron charge asymmetry in  $p\bar{p} \rightarrow W + X \rightarrow e\nu + X$  events at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101 211801 (2008).
341. “Search for scalar leptoquarks and T-odd quarks in the acoplanar jet topology using  $2.5 \text{ fb}^{-1}$  of  $p\bar{p}$  collision data  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett B 668, 357 (2008).
342. “ $ZZ \rightarrow \ell^+\ell^-\nu\bar{\nu}$  production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D78, 072002 (2008).

343. “Observation of  $ZZ$  production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 171803 (2008).
344. “A search for the standard model Higgs boson in the missing energy and acoplanar  $b$ -jet topology at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 251802 (2008).
345. “Measurement of the differential  $Z/\gamma^* + \text{jet} + X$  cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, accepted for publication to Phys. Letters B 669, 278 (2008).
346. “Measurement of  $\sigma(p\bar{p} \rightarrow Z + X) \text{Br}(Z \rightarrow \tau^+ \tau^-)$  at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B670, 292 (2009).
347. “A search for associated  $W$  and Higgs boson production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 051803.
348. “Observation of the doubly strange  $b$  baryon  $\Omega_b$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 232002 (2008).
349. “Search for pair production of second generation scalar leptoquarks”, V.M. Abazov *et al.*, Phys. Letters B671, 224 (2009).
350. “Search for large extra spatial dimensions in the dielectron and diphoton channels  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 051601 (2009).
351. “Search for decay of a fermiophobic Higgs boson  $h_f \rightarrow \gamma\gamma$  with the DØ detector at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 051801 (2008).
352. “Search for long-lived charged massive particles with the DØ detector”, V.M. Abazov *et al.*, accepted for publication in Phys. Rev. Letters 102, 111802 (2009).
353. “Measurement of the angular and lifetime parameters of the decays  $B_d \rightarrow J/\psi K^{*0}$  and  $B_s \rightarrow J/\psi \phi$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 032001 (2009).
354. “Evidence of  $WW + WZ$  production with lepton+jets final states in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 161801 (2009).
355. “Search for neutral Higgs bosons at high  $\tan \beta$  in the  $b(h/H/A) \rightarrow b\tau^+\tau^-$  channel”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 051804 (2009).
356. “Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B675, 289 (2009).

357. “Evidence for the decay  $B_s^0 \rightarrow D_s^{(*)} D_s^{(*)}$  and a measurement of  $\Delta\Gamma_s^{\text{CP}}/\Gamma_s$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 091801 (2009).
358. “Search for anomalous top quark couplings with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 092002 (2009).
359. “Search for associated production of charginos and neutralinos in the trilepton final state using 2.3 fb<sup>-1</sup> of data”, V.M. Abazov *et al.*, accepted for publication in Phys. Letters B680, 34 (2009).
360. “Search for admixture of scalar top quarks in the  $t\bar{t}$  lepton+jets final state at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B674, 4 (2009).
361. “Search for resonant diphoton production with the DØ detector”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 231801 (2009).
362. “Measurement of the  $t\bar{t}$  cross section and top quark mass extraction using dilepton events in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Letters B679, 177 (2009).
363. “Measurement of the  $Z\gamma \rightarrow \nu\nu\gamma$  cross section and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 201802 (2009).
364. “Observation of single top production”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 092001 (2009).
365. “Measurement of differential cross sections of  $Z/\gamma^*$ +jets+X events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B678, 45 (2009).
366. “Search for the standard model Higgs boson in tau final states”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 251801 (2009).
367. “Combination and interpretation of  $t\bar{t}$  cross section measurements and constraints on the top quark mass and on top quark decays into charged Higgs bosons”, V.M. Abazov *et al.*, Phys. Rev. D80, 071102 (2009).
368. “Measurement of the  $WW$  production cross section with dilepton final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and limits on anomalous trilinear gauge couplings”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 191801 (2009).
369. “Measurement of  $\gamma + b + X$  and  $\gamma + c + X$  production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 102, 192002 (2009).



370. “Measurement of the Top Quark Mass in Final States with Two Leptons”, V.M. Abazov *et al.*, accepted for publication in Phys. Rev. D80, 092006 (2009).
371. “Search for CP violation in  $B_s \rightarrow \mu^+ D_s X$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D82, 012003 (2010).
372. “Search for dark photons from supersymmetric hidden valleys”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 081802 (2009).
373. “Search for NMSSM Higgs bosons in the  $h \rightarrow aa \rightarrow 4\mu, 2\mu 2\tau$  channels using  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 061801 (2009).
374. “Search for squark production with jets, hadronically decaying tau leptons and missing transverse energy at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B 680, 24 (2009).
375. “Direct measurement of the mass difference between top and antitop quarks”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 132001 (2009).
376. “Search for resonant pair production of neutral long-lived particles decaying to  $b\bar{b}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 071801 (2009).
377. “Measurement of dijet angular distributions at  $\sqrt{s} = 1.96$  TeV and searches for quark compositeness and extra spatial dimensions”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 191803 (2009).
378. “Search for charged Higgs bosons in top quark decays”, V.M. Abazov *et al.*, Phys. Letters B 680, 278 (2009).
379. “Search for pair production of first-generation Leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B 681, 224 (2009).
380. “A novel method for modeling the recoil in  $W$  boson events at hadron colliders”, V.M. Abazov *et al.*, Nucl. Instrum. and Methods in Phys. Res. 609, 250 (2009).
381. “Measurement of the t-channel single top quark production cross section”, V.M. Abazov *et al.*, Phys. Letters B682, 363 (2010).
382. “Measurement of trilinear gauge boson couplings from  $WW + WZ \rightarrow \ell\nu jj$  events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D80, 053012 (2009).

383. “Measurement of  $Z/\gamma^*$ +jet+X angular distributions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B682, 370 (2010).
384. “Combined measurements of anomalous charged trilinear gauge-boson couplings from diboson production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, submitted for publication to Phys. Rev. D.
385. “Measurement of the  $W$  boson mass”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 141801 (2009).
386. “Direct measurement of the  $W$  boson width”, V.M. Abazov *et al.*, Phys. Rev. Letters 103, 231802 (2009).
387. “Determination of the strong coupling constant from the inclusive jet cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D80, 111107 (2009).
388. “Measurement of the  $t\bar{t}$  cross section using high-multiplicity jet events”, V.M. Abazov *et al.*, Phys. Rev. D82, 032002 (2010).
389. “Search for a resonance decaying into  $WZ$  boson pairs in  $p\bar{p}$  collision”, V.M. Abazov *et al.*, Phys. Rev. Letters 104, 061801 (2010).
390. “Search for the associated production of a  $b$  quark and a neutral supersymmetric Higgs boson which decays to tau pairs”, V.M. Abazov *et al.*, Phys. Rev. Letters 104, 151801 (2010).
391. “Search for single top in the tau+jets channel using  $4.8 \text{ fb}^{-1}$  of  $p\bar{p}$  collision data”, V.M. Abazov *et al.*, Phys. Letters B690, 5 (2010).
392. “Double parton interactions in gamma+3 jets events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D81, 052012 (2010).
393. “Search for the standard model Higgs boson in the  $ZH \rightarrow \nu\nu bb$  channel in  $5.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 104, 071801 (2010).
394. “Dependence of the  $t\bar{t}$  production cross section on the transverse momentum of the top quark”, V.M. Abazov *et al.*, Phys. Lett. B693, 515 (2010).
395. “Search for Higgs boson production in dilepton and missing energy final states with  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 104, 061804 (2010).

397. “ $b$ -Jet Identification in the  $D\bar{O}$  Experiment”, V.M. Abazov *et al.*, Nucl. Instrum. Meth. in Phys. Res. A620, 400 (2010).
398. “Measurement of the dijet invariant mass cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, accepted for publication in Phys. Letters B693, 531 (2010).
399. “Measurement of direct photon pair production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B690, 108 (2010).
400. “Search for Randall-Sundrum gravitons in the dielectron and diphoton final states with  $5.4 \text{ fb}^{-1}$  of data from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV V.M. Abazov *et al.*, Phys. Rev. Letters 104, 241802 (2010).
401. “Search for scalar bottom quarks and third-generation leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV V.M. Abazov *et al.*, Phys. Letters B 693, 95 (2010).
402. “Evidence for an anomalous like-sign dimuon charge asymmetry”, V.M. Abazov *et al.*, Phys. Rev D 82, 032001 (2010).
403. “Combined Tevatron upper limit on  $gg \rightarrow H \rightarrow WW$  and constraints on the Higgs boson mass in fourth-generation fermion model”, T. Aaltonen *et al.*, Phys. Rev D 82, 011102 (2010).
404. “Measurement of the normalized  $Z/\gamma^* \rightarrow \mu^+\mu^-$  transverse momentum distribution in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV” V.M. Abazov *et al.*, Phys. Letters B 693, 522 (2010).
405. “Measurement of the  $WZ \rightarrow \ell\nu\ell\ell$  cross section and limits on anomalous triple gauge couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV” V.M. Abazov *et al.*, Phys. Letters B 695, 67 (2010).
406. “Search for the rare decay  $B_s^0 \rightarrow \mu\mu$ ”, V.M. Abazov *et al.*, Phys. Letters B 693, 539 (2010).
407. “Search for flavor changing neutral currents in single top quark production using  $2.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Letters B 693, 81 (2010).
408. “Evidence for an anomalous like-sign dimuon charge asymmetry”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 081801 (2010).
409. “Search for sneutrino production in  $e\mu$  final states in  $5.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 191802 (2010).

410. “Search for a heavy neutral gauge boson in the dielectron channel with  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Lett. B 695, 88 (2010).
411. “Search for diphoton events with large missing transverse energy in  $6.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 221802 (2010).
412. “Search for events with leptonic jets and missing transverse energy”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 211802 (2010).
413. “Search for  $ZH \rightarrow \ell^+\ell^-b\bar{b}$  production in  $4.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ GeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 251801 (2010).
414. “Search for new fermions (‘quirks’) at the Fermilab Tevatron Collider”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 211803 (2010).
415. “Search for  $ZH \rightarrow \ell\ell b\bar{b}$  production in  $4.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 105, 251801 (2010).
416. “Measurement of  $t\bar{t}$  production in the  $\tau + \text{jets}$  channel using  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D82, 071102 (2010).
417. “High mass exclusive diffractive dijet production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Lett. B 705, 193 (2011).
418. “Search for scalar top quarks in the electron+muon final state”, V.M. Abazov *et al.*, Phys. Lett. B696, 321 (2011).
419. “Determination of the width of the top quark”, V.M. Abazov *et al.*, Phys. Rev. Letters 106, 022001 (2011).
420. “Precise study of the  $Z/\gamma^*$  boson transverse momentum distribution in  $p\bar{p}$  collisions using a novel technique”, V.M. Abazov *et al.*, Phys. Rev. Letters 106, 122001 (2011).
421. “Search for single vector-like quarks  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ” V.M. Abazov *et al.*, Phys. Rev. Letters 106, 081801 (2011).
422. “A Measurement of the Ratio of Inclusive Cross Sections  $\sigma(p\bar{p} \rightarrow -Z + b \text{ jet}) / \sigma(p\bar{p} \rightarrow Z + \text{jet})$  at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D83, 031105(R) (2010).
423. “Search for neutral Higgs bosons in the multi- $b$ -jet topology in  $5.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters B 698, 97 (2011).

424. “Search for resonant  $WW$  and  $WZ$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 011801 (2011).
425. “Measurement of the  $W$  boson helicity in top quark decays using  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collision data”, V.M. Abazov *et al.*, Phys. Rev D83, 032009 (2011).
426. “Search for  $WH$  associated production in  $5.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at the Fermilab Tevatron”, V.M. Abazov *et al.*, Phys. Letters B698, 6 (2011).
427. “Measurement of the top quark pair production cross section in the lepton+jets channel in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D84, 012008 (2011).
428. “Measurement of color flow in  $t\bar{t}$  events from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D83, 092002 (2011).
429. “Search for  $Wt \rightarrow tb$  resonances with left- and right-handed couplings to fermions”, V.M. Abazov *et al.*, Phys. Letters B699, 145 (2011).
430. “Azimuthal decorrelations and multiple parton interactions in  $\gamma + 2$  and  $\gamma + 3$  jet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D83, 052008 (2011).
431. “Search for the Standard Model Higgs Boson in the  $H \rightarrow WW \rightarrow \ell\nu q'\bar{q}$  Decay Channel”, V.M. Abazov *et al.*, Phys. Rev. Letters 106, 171802 (2011).
432. “Measurement of spin correlation in  $t\bar{t}$  production using dilepton final states”, V.M. Abazov *et al.*, Phys. Letters B 702, 16 (2011).
433. “Search for flavor changing neutral current couplings in decays of top quarks”, V.M. Abazov *et al.*, Phys. Letters B 701, 313 (2011).
434. “Measurement of three-jet differential cross sections  $d\sigma_{3 \text{ jet}}/dM_{3 \text{ jet}}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B704, 434 (2011).
435. “Determination of the pole and  $\overline{\text{MS}}$  mass values of the top quark from the inclusive  $t\bar{t}$  production cross section”, V.M. Abazov *et al.*, Phys. Letters Bx703, 422 (2011).
436. “Measurement of the  $ZZ$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D84, 011103 (2011).

437. “Search for a fourth generation  $t'$  quark in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 082001 (2011).
438. “Measurement of  $\sin^2 \theta_{eff}$  and  $Z$ -light quark couplings using the forward-backward charge asymmetry in  $p\bar{p} \rightarrow Z/\gamma^*$  events with  $5.0 \text{ fb}^{-1}$  at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D84, 012007 (2011).
439. “Measurement of spin correlation in  $t\bar{t}$  production using a matrix element approach”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 032001 (2011).
440. “Precise measurement of the top quark mass in the dilepton channel at D0”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 082004 (2011).
441. “Measurement of the production fraction times branching fraction  $f(b \rightarrow \Lambda_b) * \mathcal{B}(\Lambda_b \rightarrow J/\psi \Lambda)$ ”, V.M. Abazov *et al.*, Phys. Rev. D84, 031102 (2011).
442. “Model-independent measurement of  $t$ -channel single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B705, 313 (2011).
443. “Measurement of the  $t\bar{t}$  production cross section using dilepton events in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Letters Bx704, 403 (2011).
444. “Precise measurement of the top-quark mass from lepton+jets events at D0”, V.M. Abazov *et al.*, Phys. Rev. D84, 032004 (2011).
445. “Measurements of inclusive  $W$ +jets production as a function of jet transverse momentum with the D0 Experiment”, V.M. Abazov *et al.*, Phys. Letters B705, 200 (2011).
446. “Bounds on an anomalous dijet resonance in  $W$ + jets production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 011804 (2011).
447. “Direct measurement of the mass difference between top and antitop quarks”, V.M. Abazov *et al.*, Phys. Rev. D84, 052005 (2011).
448. “Search for doubly-charged Higgs boson pair production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 021801 (2012).
449. “Search for Higgs bosons decaying to  $\tau^+ \tau^-$  pairs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B707, 323 (2012).
450. “Search for neutral Higgs bosons decaying to tau pairs in association with  $b$  quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 121801 (2011).

451. “Precision measurement of the ratio  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  and extraction of  $V_{tb}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 121802 (2011).
452. “Measurement of the anomalous like-sign dimuon charge asymmetry with  $9 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D84, 052007 (2011).
453. “Search for first generation leptoquark pair production in the electron + missing energy + jets final state”, V.M. Abazov *et al.*, Phys. Rev. D84, 071104 (2011).
454. “Search for the standard model and a fermiophobic Higgs boson in diphoton final states”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 151801 (2011).
455. “Forward-backward asymmetry in top quark-antiquark production”, V.M. Abazov *et al.*, Phys. Rev. D84, 112005 (2011).
456. “Measurements of single top quark production cross sections and  $V_{tb}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D84, 112001 (2011).
457. “Model independent search for new phenomena in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D85, 092015 (2012).
458. “Measurement of CP-violating phase  $\phi_s$  using the flavor-tagged decay  $B_s^0 \rightarrow J/\psi\phi$  in  $8 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions” V.M. Abazov *et al.*, Phys. Rev. D85, 032006 (2012).
459. “ $W\gamma$  production and limits on anomalous  $WW\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 107, 241803 (2011).
460. “Search for associated Higgs boson production using like charge dilepton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D84, 092002 (2011).
461. “High mass exclusive diffractive dijet production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Lett. B705, 193 (2011).
462. “A search for charged massive long-lived particles”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 121802 (2012).
463. “Measurement of the inclusive jet cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D85, 052006 (2012).

464. “Evidence for spin correlation in  $t\bar{t}$  production”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 032004 (2012).
465. “Search for anomalous  $Wtb$  couplings in single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B 708, 21 (2012).
466. “Measurement of the relative branching ratio  $B_s^0 \rightarrow J/\psi f^0(980)$  to  $B_s^0 \rightarrow J/\psi\phi$ ”, V.M. Abazov *et al.*, Phys. Rev. D85, 011103 (2012).
467. “Search for a narrow  $t\bar{t}$  resonance in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D85, 051101 (2012).
468. “ $Z\gamma$  production and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D85, 052001 (2012).
469. “Measurements of  $WW$  and  $WZ$  production in  $W$ + jets final states in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 181803 (2012).
470. “Search for universal extra dimensions in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 131802 (2012).
471. “Search for Higgs bosons of the minimal supersymmetric standard model in Search for Higgs bosons of the minimal supersymmetric standard model in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B710, 569 (2012).
472. “An improved determination of the width of the top quark”, V.M. Abazov *et al.*, Phys. Rev. D85, 091104(R) (2012).
473. “Measurement of the top quark mass in  $p\bar{p}$  collisions using events with two leptons” V.M. Abazov *et al.*, Phys. Rev. D86, 051103 (2012).
474. “A measurement of the  $WZ$  and  $ZZ$  production cross sections using leptonic final states in  $8.6 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. **D85**, 112005 (2012).
475. “Search for pair production of the scalar top quark in muon + tau final states”, V.M. Abazov *et al.*, Phys. Letters B710, 578 (2012).
476. “Combination of CDF and D0 measurements of the  $W$  boson helicity in top quark decays”, T. Aaltonen *et al.*, Phys. Rev. D 85, 071106 (2012).
477. “Measurement of the  $W$  boson mass with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. Letters 108, 151804 (2012).



478. “ Search for  $WH$  associated production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D86, 032005 (2012).
479. “ Search for the standard model Higgs boson in tau lepton pair final states”, V.M. Abazov *et al.*, Phys. Lett. B 714, 237 (2012).
480. “Search for  $Z + \gamma$  events with large missing transverse energy in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D86, 071701(R) (2012).
481. “Measurement of the photon +  $b$ -jet production differential cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B714, 32 (2012).
482. “Observation of a narrow state decaying into  $\Upsilon(1s) + \gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D86, 031103 (2012).
483. “Search for violation of Lorentz invariance in top quark pair production and decay”, V.M. Abazov *et al.*, Phys. Rev. Lett. 108, 261603 (2012).
484. “Combination of searches for anomalous top quark couplings with  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Lett. B713, 165 (2012).
485. “Measurement of the  $\Lambda_b$  lifetime in the exclusive decay  $\Lambda_b \rightarrow J/\psi\Lambda$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D85, 112003 (2012),
486. “Study of the decay  $B_s^0 \rightarrow J/\psi f_2'(1525)$  in  $\mu^+\mu^-K^+K^-$  final states”, V.M. Abazov *et al.*, Phys. Rev. D86, 092011 (2012).
487. “Measurement of the differential cross section  $d\sigma/dt$  in elastic  $\overline{pp}$  scattering at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D86, 012009 (2012).
488. “Measurement of leptonic asymmetries and top quark polarization in  $t\bar{t}$  production”, V.M. Abazov *et al.*, Phys. Rev. D87, 011103 (2013).
489. “Combination of the top-quark mass measurements from the Tevatron collider”, T.Aaltonen *et al.*, Phys. Rev. D86, 092003 (2012).
490. “Measurement of the semileptonic charge asymmetry using  $B_s^0 \rightarrow D_s\mu X$  decays”, V.M. Abazov *et al.*, Phys. Rev. Letters 110, 011801 (2013).
491. “Measurement of angular correlations of jets at  $\sqrt{s} = 1.96$  TeV and determination of the strong coupling at high momentum transfers”, V.M. Abazov *et al.*, Phys. Letters B718, 56 (2012).

492. “Search for the standard model Higgs boson in the  $ZH \rightarrow \nu\nu b\bar{b}$  channel in  $9.5 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters B716, 285 (2012).
493. “Search for the standard model Higgs boson in  $ZH \rightarrow \ell\ell b\bar{b}$  production with the D0 detector in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. Lett. **109**, 121803 (2012).
494. “Evidence for a particle produced in association with weak bosons and decaying to a bottom-antibottom quark pair in Higgs boson searches at the Tevatron”, T. Aaltonen *et al.*, Phys. Rev. Letters 109. 071804 (2012).
495. “Combined search for the standard model Higgs boson decaying to  $b\bar{b}$  using the D0 Run II data set”, V.M. Abazov *et al.*, Phys. Rev. Lett. **109**, 121802 (2012).
496. “Search for the standard model Higgs boson in associated  $WH$  production in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. Lett. **109**, 121804 (2012).
497. “Search for Higgs boson production in oppositely charged dilepton and missing energy events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D 86, 032010 (2012).
498. “Search for Neutral Higgs Bosons in Events with Multiple Bottom Quarks at the Tevatron”, V.M. Abazov *et al.*, Phys. Rev. D86, 091101(R) (2012).
499. “Limits on anomalous trilinear gauge boson couplings from  $WW$ ,  $WZ$  and  $W\gamma$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Lett. B 718, 451 (2012).
500. “Measurement of the semileptonic charge asymmetry in  $B^0$  meson mixing with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. D87, 011103(R) (2013).
501. “Measurement of the ratio of three-jet to two-jet cross sections in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Letters. B720, 6 (2013).
502. “Measurement of the  $p\bar{p} \rightarrow W + b + X$  production cross section at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters. B718, 1314 (2013).
503. “Measurement of differential  $\gamma + c$ -jet cross sections and the ratio of  $\gamma + c$  and  $\gamma + b$  cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters. B719, 354 (2013).

504. “Search for charged massive long-lived particles at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D87, 052011 (2013).
505. “Search for the Higgs boson in lepton, tau and jets final states”, V.M. Abazov *et al.*, Phys. Rev. D88, 052005 (2013).
506. “Measurement of the combined rapidity and pT dependence of dijet azimuthal decorrelations in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett B721, 212 (2013).
507. “Search for Higgs boson production in oppositely charged dilepton and missing energy final states in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev D88, 052006 (2013).
508. “Measurement of the ratio of differential cross sections  $\sigma(p\bar{p} \rightarrow b\text{jet})/\sigma(p\bar{p} \rightarrow Z + \text{jet})$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D87, 092010 (2013).
509. “Measurement of the differential cross sections for isolated direct photon pair production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Lett. B 725, 6 (2013).
510. “Search for the rare decay  $B_s^0 \rightarrow \mu^+ \mu^-$ ”, V.M. Abazov *et al.*, Phys. Rev. D87, 072006 (2013).
511. “Search for a Higgs boson in diphoton final states with the D0 detector in  $9.6 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D88, 052007 (2013).
512. “Search for the standard model Higgs boson in  $\ell\nu + \text{jets}$  final states in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. D88, 052008 (2013).
513. “Search for Higgs boson production in trilepton and like-charge electron-muon final states with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. D88, 052009 (2013).
514. “Studies of  $W$  boson plus jets production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D88, 092001 (2013).
515. “Combined search for the Higgs boson with the D0 experiment”, V.M. Abazov *et al.*, Phys. Rev. D88, 052011 (2013).

516. “Search for  $ZH \rightarrow \ell^+ \ell^- b \bar{b}$  production in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. D88, 052010 (2013).
517. “Higgs Boson Studies at the Tevatron”, T. Aaltonen *et al.*, Phys. Rev. D88, 052014.
518. “An improved measurement of direct CP violation parameters in  $B^+ \rightarrow J/\psi K^+$  and  $B^+ \rightarrow J/\psi \pi^+$  decays”, V.M. Abazov *et al.*, Phys. Rev. Lett. 110, 241801 (2013).
519. “Search for  $ZH \rightarrow \ell^+ \ell^- b \bar{b}$  production in  $9.7 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D 88, 052010 (2013).
520. “Measurement of the  $ZZ$  production cross section and search for the standard model Higgs boson in the four lepton final state in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D88, 032008 (2013).
521. “Search for anomalous quartic  $WW\gamma\gamma$  couplings in dielectron and missing energy final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D88, 012005 (2013).
522. “Measurement of direct CP violation parameters in  $B^\pm \rightarrow J/\psi K^\pm$  and  $B^\pm \rightarrow J/\psi \pi^\pm$  decays in  $10.4 \text{ fb}^{-1}$  of Tevatron data”, V.M. Abazov *et al.*, Phys. Rev. Letters 101, 241801 (2013).
523. “The evolution of hadron-collider experiments”, Paul Grannis and Peter Jenni, Phys. Today 66(6), 38 (2013).
524. “Evidence for  $s$ -channel single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters B 726, 656 (2013).
525. “Muon reconstruction and identification with the Run II D0 detector”, V.M. Abazov *et al.*, Nucl. Instrum. Meth. in Phys. Res. A737, 281 (2013).
526. “Combination of CDF and D0 W-Boson Mass Measurements”, T. Aaltonen *et al.*, Phys. Rev. D88, 052018 (2013).
527. “Measurement of the differential cross section for photon plus jet production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D88, 072008 (2013)..
528. “Measurement of the asymmetry in the angular distributions of leptons produced in dilepton  $t\bar{t}$  final states in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Physical Review D88, 112002 (2013).

529. “Measurement of associated production of  $Z$  bosons with charm quark jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. Letters 112, 042001 (2014).
530. “The Tevatron Physics Legacy”, Paul D. Grannis and Melvyn J. Shochet, Annu. Rev. Nucl. Part. Sci. **63**, 467 (2013).
531. “Measurement of the muon charge asymmetry in  $p\bar{p} \rightarrow W + X \rightarrow \mu\nu X$  events at  $\sqrt{s} = 1.96$  GeV”, V.M. Abazov *et al.*, accepted for publication in Phys. Rev. D88, 091102(R) (2013).
532. “Search for the  $X(4140)$  state in  $B^\pm \rightarrow J/\psi\phi K^\pm$  decays”, V.M. Abazov *et al.*, Phys. Rev. D89, 012004 (2014)..
533. “Combination of measurements of the top-quark pair production cross section from the Tevatron Collider”, T. Aaltonen *et al.*, Phys. Rev. 89, 072001 (2014).
534. “Study of CP-violating charge asymmetries of single muons and like-sign dimuons in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D89, 012002 (2014).
535. “Measurement of the  $W$  boson mass with the D0 detector”, V.M. Abazov *et al.*, Phys. Rev. D89, 012005 (2014).
536. “Measurement of the direct CP-violating charge asymmetry in  $D_s \rightarrow \phi\pi$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 112, 111804 (2014).
537. “Measurement of the  $W$  boson production charge asymmetry  $p\bar{p} \rightarrow W + X \rightarrow e\nu + X$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 112, 151803 (2014).
538. “Jet energy scale determination in the D0 experiment”, V.M. Abazov *et al.*, Nucl. Instrum. Meth. in Phys. Res. A763, 442 (2014).
539. “Electron and Photon Identification in the D0 Experiment”, V.M. Abazov *et al.*, Nucl. Instrum. Meth. in Phys. Res. A750, 78 (2014).
540. “Improved  $b$  quark jet identification at the D0 experiment”, V.M. Abazov *et al.*, Nucl. Instrum. Meth. in Phys. Res. A763, 290 (2014).
541. “Measurement of differential  $t\bar{t}$  production cross sections in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D90, 092006 (2014).
542. “Combination of measurements of the top-quark pair production cross section from the Tevatron Collider”, T. Aaltonen *et al.*, Phys. Rev. D89, 072001 (2014).

543. “Observation of  $s$ -channel production of single top quarks at the Tevatron”, T. Aaltonen *et al.*, Phys. Rev. Letters 112, 231803 (2014).
544. “Double parton interactions in  $\gamma + 3$  jets and  $\gamma + b/c + 2$  jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D89, 072006 (2014).
545. “Measurement of the forward-backward asymmetry in the distribution of leptons in  $t\bar{t}$  in the lepton+jets channel”, V.M. Abazov *et al.*, Phys. Rev. D90, 072001 (2014).
546. “The evolution of hadron-collider experiments”, Paul Grannis and Peter Jenni, Physics Today 66(6), 38 (2013).
547. “The evolution of hadron-collider experiments” (in Japanese), Paul Grannis and Peter Jenni, Parity 02, 22 (2014).
548. “Measurement of the forward-backward asymmetry in  $p\bar{p} \rightarrow t\bar{t}$  production in the lepton+jets channel”, V.M. Abazov *et al.*, Phys. Rev. D90, 072011 (2014).
549. “Precision measurement of the top quark mass in lepton+jets final states at D0”, V.M. Abazov *et al.*, Phys. Rev. Letters 113, 032002 (2014).
550. “Measurement of the differential inclusive  $\gamma + b$ -jets cross section and the ratio  $\sigma(\gamma + 2b)/\sigma(\gamma + b)$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Letters B737, 357 (2014).
551. “Study of the Electric Charge of the Top Quark in  $p\bar{p} \rightarrow t\bar{t}$  Events”, V.M. Abazov *et al.*, Phys. Rev. D 90, 051101 (2014).
552. “Constraints on spin and parity of the Higgs boson in  $VH \rightarrow Vb\bar{b}$  final states”, V.M. Abazov *et al.*, Phys. Rev. Letters 113, 161802 (2014).
553. “Measurement of the effective weak mixing angle in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^-$  events”, V.M. Abazov *et al.*, Phys. Rev. Letters 115, 041801 (2015).
554. “Observation and studies of double  $J/\psi$  production at the Tevatron”, V.M. Abazov *et al.*, Phys. Rev. D 90, 111101 (2014).
555. “Measurement of the direct CP-violating parameter  $A_{CP}(D^+ \rightarrow K^-\pi^+\pi^+)$ ”, V.M. Abazov *et al.*, Phys. Rev. D90, 111102 (2014).
556. “Measurement of the  $B_s$  lifetime in the flavor-specific decay channel  $B_s \rightarrow D_s\mu\nu$ ”, V.M. Abazov *et al.*, Phys. Rev. Letters 114. 062001 (2015).

557. “Measurement of the  $\phi_\eta^*$  distribution of muon pairs with masses between 30 and 500 GeV in  $10.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions ”, V.M. Abazov *et al.*, Phys. Rev. D 91.
558. “Measurement of the forward-backward asymmetry in the production of  $B^\pm$  mesons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$  ”, V.M. Abazov *et al.*, Phys. Rev. Letters 114. 051803 (2015).
559. “Measurement of the electron charge asymmetry in  $p\bar{p} \rightarrow W\nu X \rightarrow e\nu X$  events at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D91, 032007 (2015).
560. “Measurement of the  $W + b$ -jet and  $W + c$ -jet differential production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Letters B743, 6 (2015).
561. “Measurement of the ratio of inclusive cross sections  $\sigma(p\bar{p} \rightarrow Z + 2 b \text{ jets})/\sigma(p\bar{p} \rightarrow Z + 2 \text{ jets})$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D91, 052010 (2015).
562. “Precision measurement of the top-quark mass in lepton+jets final states”, V.M. Abazov *et al.*, Phys. Rev. D91, 112003 (2015).
563. “Tevatron Constraints on Models of the Higgs Boson with Exotic Spin and Parity Using Decays to Bottom-Antibottom Quark Pairs”, T. Aaltonen *et al.*, Phys. Rev. Letters 114, 151802 (2015).
564. “Measurement of the forward-backward asymmetry in  $\Lambda_b^0$  and  $\bar{\Lambda}_b^0$  baryon production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”, V.M. Abazov *et al.*, Phys. Rev. D91, 072008 (2015).
565. “Tevatron combination of single-top-quark cross sections and determination of the magnitude of the Cabibbo-Kobayashi-Maskawa matrix element  $V_{tb}$  ”, T. Aaltonen *et al.*, Phys. Rev. Letters 115, 152003 (2015).
566. “Search for Violation of  $CPT$  and Lorentz invariance in  $B_s^0$  meson oscillations ”, V.M. Abazov *et al.*, Phys. Rev. Letters 115, 161601 (2015).
567. “Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from  $t\bar{t}$  production at the Tevatron ”, V.M. Abazov *et al.* Phys. Rev. D 92, 052007 (2015).
568. “Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting ”, V.M. Abazov *et al.*, Phys. Lett. B 752, 18 (2016).

569. “Inclusive production of the  $X(4140)$  state in  $p\bar{p}$  collisions at D0”, V.M. Abazov *et al.*, Phys. Rev. Lett. 115, 232001 (2015).
570. “The Top quark (20 years after the discovery)”, Eduard Boos, Oleg Brandt, Dmitri Denisov, Sergey Denisov and Paul Grannis, Uspekhi Fizicheskikh Nauk 185, 1241 (2015) (in Russian), and Physics Uspekhi **58** (12), 1133 (2015) (in English).
571. “Evidence for simultaneous production of  $J/\psi$  and  $\Upsilon$  mesons”, V.M. Abazov *et al.*, Phys. Rev. Lett. 116, 082002 (2016).
572. “Measurement of the forward-backward asymmetry of  $\Lambda$  and  $\bar{\Lambda}$  production in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D 93, 032002 (2016).
573. “ Study of double parton interactions in diphoton + dijet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV ”, V.M. Abazov *et al.*, Phys. Rev. D 93 , 052008 (2016).
574. “ Measurement of spin correlation between top and antitop quarks produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV ”, V.M. Abazov *et al.*, Phys. Lett. B757, 199 (2016).
575. “Evidence for a  $B_s^0\pi^\pm$  state”, V.M. Abazov *et al.*, Phys. Rev. Lett. 117, 022003 (2016).
576. “ $B_s^0$  lifetime measurement in the CP-odd decay channel  $B_s^0 \rightarrow J/\psi f^0(980)$ ”, V.M. Abazov *et al.*, Phys. Rev. D 94, 012001 (2016).
577. “Measurement of the forward-backward asymmetries in the production of  $\Xi$  and  $\Omega$  baryons in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, Phys. Rev. D93, 112001 (2016).
578. “Measurement of the inclusive  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and determination of the top quark pole mass”, V.M. Abazov *et al.*, Phys. Rev. D94, 092004 (2016).
579. “Measurement of the Top Quark Mass Using the Matrix Element Technique in Dilepton Final States”, V.M. Abazov *et al.*, Phys. Rev. D 94, 032004 (2016).
580. “Measurement of the top quark polarization in  $t\bar{t}$  lepton+jets final state”, V.M. Abazov *et al.*, Phys. Rev. D 95, 011101(R) (2017).
581. “Measurement of the direct CP violating charge asymmetry in  $B^\pm \rightarrow \mu^\pm \nu_\mu D^0$  decays”, V.M. Abazov *et al.*, Phys. Rev. D 95, 031101 (2017).
582. “Combination of D0 measurements of the top quark mass”, V.M. Abazov *et al.*, Phys. Rev. D 95, 112004 (2017)S.



583. “Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron”, T. Aaltonen *et al.*, Phys. Rev. Letters 120, 042001 (2018).
584. “Measurement of the Effective Weak Mixing Angle in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow \ell^+\ell^-$  Events”, V.M. Abazov *et al.*, Phys. Rev. Letters 120 241802 (2018).
585. “Study of the  $X^\pm(5568)$  state with semileptonic decays of the  $B_s^0$  meson”, V.M. Abazov *et al.*, Phys. Rev. D 97, 092004 (2018).
586. “Tevatron Run II combination of the effective leptonic electroweak mixing angle”, T. Aaltonen *et al.*, Phys. Rev. D97. 112007 (2018).
587. “Evidence for  $Z^\pm(3900)$  in semi-inclusive decays of  $b$ -flavored hadrons”, V.M. Abazov *et al.*, Phys. Rev. D98, 052010 (2018).
588. “Experimental Basis of the Standard Model”, Paul Grannis and Vera Lüth, Phys. Today 72 (2), 54 (2019).
589. “Properties of  $Z_c^\pm(3900)$  produced in  $p\bar{p}$  collision”, V.M. Abazov *et al.*, Phys. Rev. D100, 012005 (2019).
590. “Top quark measurements by the D0 collaboration”, Paul Grannis, for the D0 Collaboration, Proceedings of the 2019 European Physics Society Conference on High Energy Physics, arXiv 1909.07902 [hep-ex].
591. “Inclusive production of the  $P_c$  resonances in  $p\bar{p}$  collisions”, V.M. Abazov *et al.*, arXiv 1910.11767 [hep-ex]
592. “Studies of  $X(3872)$  and  $\psi(2S)$  production in  $p\bar{p}$  collisions at 1.96 TeV”, V.M. Abazov *et al.*, Phys. Rev. D102, 072005 (2020).
593. “Study of the normalized transverse momentum distribution of  $W$  bosons produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V.M. Abazov *et al.*, Phys. Rev. D103, 012003 (2021).
594. “Odderon exchange from elastic scattering differences between  $p\bar{p}$  and  $pp$  data at 1.96 TeV and  $pp$  forward scattering measurements”, V.M. Abazov *et al.*, Phys. Rev. Letters 127, 062003 (2021).