

1 CV

Kirsten A. Tollefson

Assistant Professor

3247 Biomedical Physical Sciences
Physics and Astronomy Dept.
Michigan State University
East Lansing, MI 48824

Telephone: (517) 355-9200 ext.2138
Fax: (517) 355-6661
E-mail: tollefson@pa.msu.edu

Education

Ph.D. July 1997, Physics, University of Rochester, Rochester NY.
Thesis topic: *A Measurement of the Top Quark Mass*
Advisor: Professor Paul Tipton.
M.S. May 1994, Physics, University of Rochester, Rochester NY.
B.A. May 1992, Physics, Magna Cum Laude, Sigma Xi,
Gustavus Adolphus College, St. Peter MN.

Professional Experience

2006-Pres.	Assistant Professor	Michigan State University
Jan.-June 2006	Guest Scientist	Fermilab
2002-2006	Assistant Professor	Michigan State University
1998-2002	Postdoctoral Fellow	University of Rochester
1997-1998	Postdoctoral Fellow	Massachusetts Institute of Technology
1992-1997	Research Assistant	University of Rochester

Honors

2004	Osgood Undergraduate Teaching Award	Michigan State University
2002	First Decade Award	Gustavus Adolphus College

Professional Activities

2007-2009 Elected member of the Fermilab Users' Executive Committee
2006-2009 Convener of CDF's Top Physics Group
2007-2008 Scientific organizing committee for Top'08: International Workshop on Top Physics
2004-2006 Head of CDF's Trigger and Dataset Working Group
2003-2008 Member of Women's Advisory Committee to the Dean of CNS
2003-2004 Scientific organizing committee for Hadron Collider Physics 2004 conference
May 2003 Convener of QCD/SM working group at 2003 Les Houches Workshop
2002-2003 Leader of Cooling and Radiation Monitoring for CDF's Run IIb Silicon Detector
1998-2002 Convener CDF's Level-3 Trigger Software group
1998-2002 Convener CDF's Top Trigger and Datasets group
1997-2001 Convener CDF's Trigger Database group

2 Recent Talks

- *Recent Top Quark Results from CDF*, HEP seminar at Notre Dame, October 2007.
- *Recent Results from the Tevatron*, HEP seminar at MSU, September 2007.
- *Striking Results from the Tevatron*, Lepton-Photon Conference, South Korea, August 2007.
- *Top Group Overview*, CDF collaboration meeting, Paris, France, May 2007.
- *Measuring the Charge of the Top Quark*, Division of Particle and Fields Conference, Hawaii, October 2006.
- *The Top Quark Discovery*, Invited Lecturer for the Fermilab/CERN Hadron Collider Physics Summer School, Fermilab, August 2006.
- *Update on the Top Charge Measurement*, CDF collaboration meeting, Elba, Italy, June 2006.
- *Trigger Tables: How Far Have We Come, How High Can We Go*, CDF collaboration meeting, Fermilab, October 2005.
- *What Can the TDWG Do for You?*, Higgs and Top Physics Workshop at Ohio State University, July 2005.
- *Preparing the Trigger Table for High Luminosities*, CDF collaboration meeting, Barcelona, Spain, May 2005.
- *Trigger Plans for 2005 and Beyond*, CDF collaboration meeting, Fermilab, January 2005.
- *The State of the Top Quark: Recent Results from CDF*, Collider Physics Program at the Kavli Institute for Theoretical Physics, University of California at Santa Barbara, February 2004.

3 All Publications

1. T. Aaltonen *et al.* [CDF Collaboration], “Search for resonant $t\bar{t}$ production in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV,” arXiv:0709.0705 [hep-ex]. Submitted to Phys. Rev. Lett.
2. T. Aaltonen *et al.* [CDF Collaboration], “First Run II Measurement of the W Boson Mass,” arXiv:0708.3642 [hep-ex]. Submitted to Phys. Rev. D.
3. T. Aaltonen *et al.* [CDF Collaboration], “First Measurement of the W Boson Mass in Run II of the Tevatron,” arXiv:0707.0085 [hep-ex]. Submitted to Phys. Rev. Lett.
4. T. Aaltonen *et al.* [CDF Collaboration], “Observation and Mass Measurement of the Baryon Ξ_b^- ,” Phys. Rev. Lett. **99**, 052002 (2007) [arXiv:0707.0589 [hep-ex]].
5. T. Aaltonen *et al.* [CDF Collaboration], “Search for a High-Mass Diphoton State and Limits on Randall-Sundrum Gravitons at CDF,” arXiv:0707.2294 [hep-ex]. Submitted to Phys. Rev. Lett.
6. T. Aaltonen *et al.* [CDF Collaboration], “Search for Exclusive Gamma Gamma Production in Hadron-Hadron Collisions,” arXiv:0707.2374 [hep-ex]. Submitted to Phys. Rev. Lett.
7. T. Aaltonen *et al.* [CDF Collaboration], “Search for New Physics in High Mass Electron-Positron Events in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” arXiv:0707.2524 [hep-ex]. Submitted to Phys. Rev. Lett.
8. T. Aaltonen *et al.* [CDF Collaboration], “Search for Third Generation Vector Leptoquarks in p anti- p Collisions at $\sqrt{s} = 1.96$ TeV,” arXiv:0706.2832 [hep-ex]. Submitted to Phys. Rev. Lett.
9. T. Aaltonen *et al.* [CDF Collaboration], “Search for New Particles Leading to Z +jets Final States in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” arXiv:0706.3264 [hep-ex]. Submitted to Phys. Rev. D
10. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the p anti- p to t anti- t Production Cross Section and the Top Quark Mass at $\sqrt{s}=1.96$ TeV in the All-Hadronic Decay Mode,” arXiv:0706.3790 [hep-ex]. Submitted to Phys. Rev. D
11. T. Aaltonen *et al.* [CDF Collaboration], “First Observation of Heavy Baryons Σ_b and Σ_b^* ,” arXiv:0706.3868 [hep-ex]. Submitted to Phys. Rev. Lett.
12. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the top-quark mass using missing E_T +jets events with secondary vertex b -tagging at CDF II,” Phys. Rev. D **75**, 111103 (2007) [arXiv:0705.1594 [hep-ex]].
13. T. Aaltonen *et al.* [CDF Collaboration], “Limits on Anomalous Triple Gauge Couplings in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV,” arXiv:0705.2247 [hep-ex]. Submitted to Phys. Rev. Lett.
14. A. Abulencia *et al.* [CDF Collaboration], “Polarization of J/psi and psi(2S) Mesons Produced in $p\bar{p}$ Collisions at 1.96 TeV,” arXiv:0704.0638 [hep-ex]. Submitted to Phys. Rev. Lett.

15. A. Abulencia *et al.* [CDF Collaboration], “Search for Heavy, Long-Lived Particles that Decay to Photons at CDF II,” arXiv:0704.0760 [hep-ex]. Submitted to Phys. Rev. Lett.
16. A. Abulencia *et al.*, “Measurement of $\sigma_{\chi_{c2}}\mathcal{B}(\chi_{c2} \rightarrow J/\psi\gamma)/\sigma_{\chi_{c1}}\mathcal{B}(\chi_{c1} \rightarrow J/\psi\gamma)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **98**, 232001 (2007) [arXiv:hep-ex/0703028].
17. A. Abulencia *et al.* [CDF Collaboration], “Precise measurement of the top quark mass in the lepton+jets topology at CDF II,” arXiv:hep-ex/0703045. Submitted to Phys. Rev. Lett.
18. A. Abulencia *et al.* [CDF Collaboration], “Observation of WZ Production,” Phys. Rev. Lett. **98**, 161801 (2007) [arXiv:hep-ex/0702027].
19. A. Abulencia *et al.*, “Search for New Physics in Lepton + Photon + X Events with 929 pb⁻¹ of $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **75**, 112001 (2007) [arXiv:hep-ex/0702029].
20. A. Abulencia *et al.* [CDF Collaboration], “First Measurement of the Ratio of Central-Electron to Forward-Electron W Partial Cross Sections in p^- \bar{p} Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **98**, 251801 (2007) [arXiv:hep-ex/0702037].
21. A. Abulencia *et al.* [CDF Collaboration], “Inclusive Search for New Physics with Like-Sign Dilepton Events in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **98**, 221803 (2007) [arXiv:hep-ex/0702051].
22. A. Abulencia *et al.* [CDF Collaboration], “Search for anomalous production of multi-lepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **98**, 131804 (2007) [arXiv:0706.4448 [hep-ex]].
23. A. Abulencia *et al.* [CDF - Run II Collaboration], “Measurement of the Inclusive Jet Cross Section using the k_T algorithm in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV with the CDF II Detector,” Phys. Rev. D **75**, 092006 (2007) [Erratum-ibid. D **75**, 119901 (2007)] [arXiv:hep-ex/0701051].
24. A. Abulencia *et al.* [CDF II Collaboration], “Measurement of the helicity fractions of W bosons from top quark decays using fully reconstructed t anti- t events with CDF II,” Phys. Rev. D **75**, 052001 (2007) [arXiv:hep-ex/0612011].
25. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the B^+ production cross section in p anti- p collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. D **75**, 012010 (2007) [arXiv:hep-ex/0612015].
26. T. Aaltonen *et al.*, “Measurement of the top-quark mass in all-hadronic decays in p anti- p collisions at CDF II,” Phys. Rev. Lett. **98**, 142001 (2007) [arXiv:hep-ex/0612026].
27. A. Abulencia *et al.* [CDF Collaboration], “Analysis of the quantum numbers $J(PC)$ of the $X(3872)$,” Phys. Rev. Lett. **98**, 132002 (2007) [arXiv:hep-ex/0612053].

28. A. Abulencia *et al.* [CDF Collaboration], “Cross section measurements of high-p(T) dilepton final-state processes using a global fitting method,” arXiv:hep-ex/0612058. Submitted to Phys. Rev. D
29. A. Abulencia *et al.* [CDF - Run II Collaboration], “Precision measurement of the top quark mass from dilepton events at CDF II,” Phys. Rev. D **75**, 031105 (2007) [arXiv:hep-ex/0612060].
30. A. Abulencia *et al.* [CDF - Run II Collaboration], “Measurement of the top quark mass in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV using the decay length technique,” Phys. Rev. D **75**, 071102 (2007) [arXiv:hep-ex/0612061].
31. A. Abulencia *et al.* [CDF Collaboration], “Search for exotic $S = -2$ baryons in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV,” Phys. Rev. D **75**, 032003 (2007) [arXiv:hep-ex/0612066].
32. A. Abulencia *et al.* [CDF Collaboration], “Search for W’ boson decaying to electron-neutrino pairs in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV,” Phys. Rev. D **75**, 091101 (2007) [arXiv:hep-ex/0611022].
33. A. Abulencia *et al.* [CDF Collaboration], “Observation of exclusive electron positron production in hadron hadron collisions,” Phys. Rev. Lett. **98**, 112001 (2007) [arXiv:hep-ex/0611040].
34. A. Abulencia *et al.* [CDF - Run II Collaboration], “Measurement of the ratios of branching fractions $B(B/s0 \rightarrow \bar{c} D/s \pi^+ \pi^+ \pi^-)/B(B0 \rightarrow \bar{c} D^- \pi^+ \pi^+ \pi^-)$ and $B(B/s0 \rightarrow \bar{c} D/s \pi^+ \pi^-)/B(B0 \rightarrow \bar{c} D^- \pi^+ \pi^-)$,” Phys. Rev. Lett. **98**, 061802 (2007) [arXiv:hep-ex/0610045].
35. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the $\Lambda/b0$ lifetime in $\Lambda/b0 \rightarrow \bar{c} J/\psi \Lambda0$ in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV,” Phys. Rev. Lett. **98**, 122001 (2007) [arXiv:hep-ex/0609021].
36. A. Abulencia *et al.* [CDF Collaboration], “Observation of B/s0 anti-B/s0 oscillations,” Phys. Rev. Lett. **97**, 242003 (2006) [arXiv:hep-ex/0609040].
37. A. Abulencia *et al.* [CDF Collaboration], “Search for V + A current in top quark decay in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV,” Phys. Rev. Lett. **98**, 072001 (2007) [arXiv:hep-ex/0608062].
38. A. Beretvas *et al.* [CDF Collaboration], “Finding the charge of the top quark in the dilepton channel,” arXiv:0707.1339 [hep-ex].
39. A. Abulencia *et al.* [CDF Collaboration], “Observation of $B^0 (s) \rightarrow K^+ K^-$ and Measurements of Branching Fractions of Charmless Two-body Decays of B^0 and B_s^0 Mesons in $\bar{p}p$ Collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **97**, 211802 (2006) [arXiv:hep-ex/0607021].
40. A. Abulencia *et al.* [CDF Collaboration], “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 Jet Probability b^- tagging,” Phys. Rev. D **74**, 072006 (2006) [arXiv:hep-ex/0607035].

41. A. Abulencia *et al.* [CDF - Run II Collaboration], “Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ in the All Hadronic Decay Mode,” Phys. Rev. D **74**, 072005 (2006) [arXiv:hep-ex/0607095].
42. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. Lett. **97**, 082004 (2006) [arXiv:hep-ex/0606017].
43. A. Abulencia *et al.* [CDF - Run II Collaboration], “Measurement of the $B_s^0 - \bar{B}_s^0$ Oscillation Frequency,” Phys. Rev. Lett. **97**, 062003 (2006) [AIP Conf. Proc. **870**, 116 (2006)] [arXiv:hep-ex/0606027].
44. A. Abulencia *et al.* [CDF Collaboration], “Search for excited and exotic muons in the $\mu\gamma$ decay channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. Lett. **97**, 191802 (2006) [arXiv:hep-ex/0606043].
45. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the ratio of branching fractions $B(D0 \rightarrow K^+\pi^-) / B(D0 \rightarrow K^-\pi^+)$ using the CDF II Detector,” Phys. Rev. D **74**, 031109 (2006) [arXiv:hep-ex/0605027].
46. A. Abulencia *et al.* [CDF Collaboration], “Search for new physics in lepton + photon + X events with 305 pb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. Lett. **97**, 031801 (2006) [arXiv:hep-ex/0605097].
47. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the b jet cross-section in events with a Z boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. D **74**, 032008 (2006) [arXiv:hep-ex/0605099].
48. A. Abulencia *et al.* [CDF Collaboration], “Top quark mass measurement from dilepton events at CDF II with the matrix-element method,” Phys. Rev. D **74**, 032009 (2006) [arXiv:hep-ex/0605118].
49. A. Abulencia *et al.* [CDF Collaboration], “Search for a neutral Higgs boson decaying to a W boson pair in p antip collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. Lett. **97**, 081802 (2006) [arXiv:hep-ex/0605124].
50. A. Abulencia *et al.* [CDF Collaboration], “Search for large extra dimensions in the production of jets and missing transverse energy in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **97**, 171802 (2006) [arXiv:hep-ex/0605101].
51. A. Abulencia *et al.* [CDF Collaboration], “Search for high-mass resonances decaying to $e\mu$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$,” Phys. Rev. Lett. **96**, 211802 (2006) [arXiv:hep-ex/0603006].
52. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the B/c+ meson lifetime using B/c+ $-j$ J/psi $e+\nu/e$,” Phys. Rev. Lett. **97**, 012002 (2006) [arXiv:hep-ex/0603027].
53. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using missing $E(t)$ + jets events with secondary vertex b-tagging,” Phys. Rev. Lett. **96**, 202002 (2006) [arXiv:hep-ex/0603043].

54. A. Abulencia *et al.* [CDF Collaboration], “Observation of $B_s^0 \rightarrow \psi(2S)\phi$ and measurement of ratio of branching fractions $B(B_s^0 \rightarrow \psi(2S)\phi)/B(B_s^0 \rightarrow J/\psi\phi)$,” Phys. Rev. Lett. **96**, 231801 (2006) [arXiv:hep-ex/0602005].
55. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the top quark mass using template methods on dilepton events in proton antiproton collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. D **73**, 112006 (2006) [arXiv:hep-ex/0602008].
56. A. Abulencia *et al.* [CDF Collaboration], “Search for $Z' \rightarrow e^+e^-$ using dielectron mass and angular distribution,” Phys. Rev. Lett. **96**, 211801 (2006) [arXiv:hep-ex/0602045].
57. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the top quark mass with the dynamical likelihood method using lepton plus jets events with b-tags in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. D **73**, 092002 (2006) [arXiv:hep-ex/0512009].
58. A. Abulencia *et al.* [CDF Run II Collaboration], “Measurement of the inclusive jet cross section in $p\bar{p}$ interactions at $\sqrt{s} = 1.96$ -TeV using a cone-based jet algorithm,” Phys. Rev. D **74**, 071103 (2006) [arXiv:hep-ex/0512020].
59. A. Abulencia *et al.* [CDF Collaboration], “Search for second-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. D **73**, 051102 (2006) [arXiv:hep-ex/0512055].
60. A. Abulencia *et al.* [CDF Collaboration], “Search for H to b anti-b produced in association with W bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **96**, 081803 (2006) [arXiv:hep-ex/0512051].
61. A. Abulencia *et al.* [CDF II Collaboration], “Measurement of the inclusive jet cross section using the k(t) algorithm in p anti-p collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **96**, 122001 (2006) [arXiv:hep-ex/0512062].
62. A. Abulencia *et al.* [CDF Collaboration], “Search for anomalous semileptonic decay of heavy flavor hadrons produced in association with a W boson at CDF II,” Phys. Rev. D **73**, 051101 (2006) [arXiv:hep-ex/0512065].
63. A. Abulencia *et al.* [CDF Collaboration], “Measurement of mass and width of the excited charmed meson states D10 and D2*0,” Phys. Rev. D **73**, 051104 (2006) [arXiv:hep-ex/0512069].
64. A. Abulencia *et al.* [CDF Collaboration], “Top quark mass measurement from dilepton events at CDF II,” Phys. Rev. Lett. **96**, 152002 (2006) [arXiv:hep-ex/0512070].
65. A. Abulencia *et al.* [CDF Collaboration], “A search for scalar bottom quarks from gluino decays in $\bar{p}p$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **96**, 171802 (2006) [arXiv:hep-ex/0512072].
66. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the dipion mass spectrum in $X(3872) \rightarrow J/\psi\pi^+\pi^-$ decays,” Phys. Rev. Lett. **96**, 102002 (2006) [arXiv:hep-ex/0512074].
67. A. Abulencia *et al.* [CDF-Run II Collaboration], “Measurement of the helicity of W bosons in top-quark decays,” Phys. Rev. D **73**, 111103 (2006) [arXiv:hep-ex/0511023].

68. A. Abulencia *et al.* [CDF Collaboration], “Top quark mass measurement using the template method in the lepton + jets channel at CDF II,” Phys. Rev. D **73**, 032003 (2006) [arXiv:hep-ex/0510048].
69. A. Abulencia *et al.* [CDF Collaboration], “Precision top quark mass measurement in the lepton + jets topology in p anti-p collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **96**, 022004 (2006) [arXiv:hep-ex/0510049].
70. A. Abulencia *et al.* [CDF Collaboration], “A search for $t \rightarrow tau\nu q$ in $t\bar{t}$ production,” Phys. Lett. B **639**, 172 (2006) [arXiv:hep-ex/0510063].
71. A. Abulencia *et al.* [CDF Collaboration], “Search for charged Higgs bosons from top quark decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV,” Phys. Rev. Lett. **96**, 042003 (2006) [arXiv:hep-ex/0510065].
72. A. Abulencia *et al.* [CDF Collaboration], “Direct search for Dirac magnetic monopoles in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 201801 (2006) [arXiv:hep-ex/0509015].
73. A. Abulencia *et al.* [CDF Collaboration], “Measurement of the ratios of branching fractions $B(B_s^0 \rightarrow D_s^- \pi^+)/B(B^0 \rightarrow D^- \pi^+)$ and $B(B^+ \rightarrow \bar{D}^0 \pi^+)/B(B^0 \rightarrow D^- \pi^+)$,” Phys. Rev. Lett. **96**, 191801 (2006) [arXiv:hep-ex/0508014].
74. D. Acosta *et al.* [CDF Collaboration], “Measurement of b hadron masses in exclusive J/ψ decays with the CDF detector,” Phys. Rev. Lett. **96**, 202001 (2006) [arXiv:hep-ex/0508022].
75. A. Abulencia *et al.* [CDF Collaboration], “Measurements of Inclusive W and Z Cross Sections in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,” arXiv:hep-ex/0508029. Submitted to Phys. Rev. D
76. A. Abulencia *et al.* [CDF Collaboration], “Search for $B_s \rightarrow \mu^+ \mu^-$ and $B_d \rightarrow \mu^+ \mu^-$ decays in $p\bar{p}$ collisions with CDF II,” Phys. Rev. Lett. **95**, 221805 (2005) [Erratum-ibid. **95**, 249905 (2005)] [arXiv:hep-ex/0508036].
77. A. Abulencia *et al.* [CDF Collaboration], “Search for neutral MSSM Higgs bosons decaying to tau pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 011802 (2006) [arXiv:hep-ex/0508051].
78. D. Acosta *et al.* [CDF Collaboration], “Search for W and Z bosons in the reaction $p\bar{p} \rightarrow 2\text{jets} + \gamma$ at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **73**, 012001 (2006) [arXiv:hep-ex/0507051].
79. D. Acosta *et al.* [CDF Collaboration], “Search for $\Lambda_b \rightarrow p\pi$ and $\Lambda_b \rightarrow pK$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **72**, 051104 (2005) [arXiv:hep-ex/0507067].
80. A. Abulencia *et al.* [CDF Collaboration], “Search for new high mass particles decaying to lepton pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **95**, 252001 (2005) [arXiv:hep-ex/0507104].
81. D. Acosta *et al.* [CDF Collaboration], “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using lepton plus jets events with semileptonic B decays to muons,” Phys. Rev. D **72**, 032002 (2005) [arXiv:hep-ex/0506001].

82. D. Acosta *et al.* [CDF Collaboration], “Search for new physics using high mass tau pairs from 1.96 TeV $p\bar{p}$ collisions,” Phys. Rev. Lett. **95**, 131801 (2005) [arXiv:hep-ex/0506034].
83. D. Acosta *et al.* [CDF Collaboration], “A search for supersymmetric Higgs bosons in the di-tau decay mode in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **72**, 072004 (2005) [arXiv:hep-ex/0506042].
84. D. Acosta *et al.* [CDF Collaboration], “Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **72**, 051107 (2005) [arXiv:hep-ex/0506074].
85. D. Acosta *et al.* [CDF Collaboration], “Study of jet shapes in inclusive jet production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” arXiv:hep-ex/0505013. Submitted to Phys. Rev. D
86. A. Abulencia *et al.* [CDF Collaboration], “Evidence for the exclusive decay $B_c^\pm \rightarrow J/\psi\pi^\pm$ and measurement of the mass of the B_c meson,” Phys. Rev. Lett. **96**, 082002 (2006) [arXiv:hep-ex/0505076].
87. D. Acosta *et al.* [CDF Collaboration], “Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ at the Collider Detector at Fermilab,” Phys. Rev. Lett. **95**, 102002 (2005) [arXiv:hep-ex/0505091].
88. D. Acosta *et al.* [CDF Collaboration], “Measurement of the azimuthal angle distribution of leptons from W boson decays as a function of the W transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **73**, 052002 (2006) [arXiv:hep-ex/0504020].
89. D. Acosta *et al.* [CDF Collaboration], “ K_S^0 and Λ^0 production studies in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ -GeV and 630-GeV,” arXiv:hep-ex/0504048. Submitted to Phys. Rev. D
90. D. Acosta *et al.* [CDF Collaboration], “Measurement of the cross section for $t\bar{t}$ production in $p\bar{p}$ collisions using the kinematics of lepton + jets events,” Phys. Rev. D **72**, 052003 (2005) [arXiv:hep-ex/0504053].
91. D. Acosta *et al.* [CDF Collaboration], “Search for long-lived doubly-charged Higgs bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **95**, 071801 (2005) [arXiv:hep-ex/0503004].
92. D. Acosta *et al.* [CDF Collaboration], “Search for Higgs bosons decaying into $b\bar{b}$ and produced in association with a vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **95**, 051801 (2005) [arXiv:hep-ex/0503039].
93. D. Acosta *et al.* [CDF Collaboration], “Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays,” Phys. Rev. D **71**, 051103 (2005) [arXiv:hep-ex/0502003].
94. D. Acosta *et al.* [CDF Collaboration], “First evidence for $B_s^0 \rightarrow \phi\phi$ decay and measurements of branching ratio and A_{CP} for $B^+ \rightarrow \phi K^+$,” Phys. Rev. Lett. **95**, 031801 (2005) [arXiv:hep-ex/0502044].

95. D. Acosta *et al.* [CDF Collaboration], “Search for ZZ and ZW production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 091105 (2005) [arXiv:hep-ex/0501021].
96. D. Acosta *et al.* [CDF Collaboration], “Measurement of the forward-backward charge asymmetry from $W \rightarrow e\nu$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 051104 (2005) [arXiv:hep-ex/0501023].
97. D. Acosta *et al.* [CDF Collaboration], “Measurement of the W^+W^- production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using dilepton events,” Phys. Rev. Lett. **94**, 211801 (2005) [arXiv:hep-ex/0501050].
98. Y. S. Chung *et al.*, “The Level-3 Trigger At The Cdf Experiment At Tevatron Run Ii,” IEEE Trans. Nucl. Sci. **52**, 1212 (2005).
99. D. Acosta *et al.* [CDF Collaboration], “Measurements of $b\bar{b}$ azimuthal production correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **71**, 092001 (2005) [arXiv:hep-ex/0412006].
100. D. Acosta *et al.* [CDF Collaboration], “Search for anomalous kinematics in $t\bar{t}$ dilepton events at CDF II,” Phys. Rev. Lett. **95**, 022001 (2005) [arXiv:hep-ex/0412042].
101. D. Acosta *et al.* [CDF Collaboration], “Measurement of the cross section for prompt diphoton production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **95**, 022003 (2005) [arXiv:hep-ex/0412050].
102. D. Acosta *et al.* [CDF Collaboration], “Measurement of the lifetime difference between B(s) mass eigenstates,” Phys. Rev. Lett. **94**, 101803 (2005) [arXiv:hep-ex/0412057].
103. D. Acosta *et al.* [CDF Collaboration], “Measurement of the J/ψ meson and b -hadron production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 032001 (2005) [arXiv:hep-ex/0412071].
104. D. Acosta *et al.* [CDF Collaboration], “Measurement of the forward-backward charge asymmetry of electron positron pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 052002 (2005) [arXiv:hep-ex/0411059].
105. D. Acosta *et al.* [CDF Collaboration], “Measurement of the W boson polarization in top decay at CDF at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **71**, 031101 (2005) [Erratum-ibid. D **71**, 059901 (2005)] [arXiv:hep-ex/0411070].
106. D. Acosta *et al.* [CDF II Collaboration], “Measurement of $W\gamma$ and $Z\gamma$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **94**, 041803 (2005) [arXiv:hep-ex/0410008].
107. D. Acosta *et al.* [CDF Collaboration], “Search for excited and exotic electrons in the $e\gamma$ decay channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **94**, 101802 (2005) [arXiv:hep-ex/0410013].
108. D. Acosta *et al.* [CDF Collaboration], “Comparison of three-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV to predictions from a next-to-leading order QCD calculation,” Phys. Rev. D **71**, 032002 (2005) [arXiv:hep-ex/0410018].

109. D. Acosta *et al.* [CDF Collaboration], “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 secondary vertex b -tagging,” Phys. Rev. D **71**, 052003 (2005) [arXiv:hep-ex/0410041].
110. D. Acosta *et al.* [CDF Collaboration], “Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models,” Phys. Rev. D **71**, 031104 (2005) [arXiv:hep-ex/0410053].
111. D. Acosta *et al.* [CDF Collaboration], “Search for electroweak single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 012005 (2005) [arXiv:hep-ex/0410058].
112. D. Acosta *et al.* [CDF Collaboration], “Search for scalar leptoquark pairs decaying to $\nu\bar{\nu}q\bar{q}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **71**, 112001 (2005) [Erratum-ibid. D **71**, 119901 (2005)] [arXiv:hep-ex/0410076].
113. D. Acosta *et al.* [CDF-II Collaboration], “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using kinematic fitting of b -tagged lepton + jet events,” Phys. Rev. D **71**, 072005 (2005) [arXiv:hep-ex/0409029].
114. D. Acosta *et al.* [CDF Collaboration], “Measurement of partial widths and search for direct CP violation in D^0 meson decays to K^-K^+ and $\pi^-\pi^+$,” Phys. Rev. Lett. **94**, 122001 (2005) [arXiv:hep-ex/0504006].
115. D. Acosta *et al.* [CDF Collaboration], “Measurement of charged particle multiplicities in gluon and quark jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **94**, 171802 (2005).
116. D. Acosta *et al.* [CDF Collaboration], “Search for doubly-charged Higgs bosons decaying to dileptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **93**, 221802 (2004) [arXiv:hep-ex/0406073].
117. D. Acosta *et al.* [CDF II Collaboration], “First measurements of inclusive W and Z cross sections from Run II of the Tevatron collider,” Phys. Rev. Lett. **94**, 091803 (2005) [arXiv:hep-ex/0406078].
118. D. Acosta *et al.* [CDF Collaboration], “Inclusive search for anomalous production of high p_T like-sign lepton pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **93**, 061802 (2004) [arXiv:hep-ex/0405063].
119. D. Acosta *et al.* [CDF Collaboration], “The underlying event in hard interactions at the Tevatron $p\bar{p}$ collider,” Phys. Rev. D **70**, 072002 (2004) [arXiv:hep-ex/0404004].
120. D. Acosta *et al.* [CDF Collaboration], “Direct photon cross section with conversions at CDF,” Phys. Rev. D **70**, 074008 (2004) [arXiv:hep-ex/0404022].
121. D. Acosta *et al.* [CDF Collaboration], “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using dilepton events,” Phys. Rev. Lett. **93**, 142001 (2004) [arXiv:hep-ex/0404036].
122. M. A. Dobbs *et al.*, “Les Houches guidebook to Monte Carlo generators for hadron collider physics,” arXiv:hep-ph/0403045.

123. M. Dobbs *et al.*, “The QCD/SM working group: Summary report,” arXiv:hep-ph/0403100.
124. D. Acosta *et al.* [CDF Collaboration], “Search for $B_s^0 \rightarrow \mu^+ \mu^-$ and $B_d^0 \rightarrow \mu^+ \mu^-$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **93**, 032001 (2004) [arXiv:hep-ex/0403032].
125. D. Acosta *et al.* [CDF Collaboration], “Optimized search for single top quark production at the Fermilab Tevatron,” Phys. Rev. D **69**, 052003 (2004).
126. D. Acosta *et al.* [CDF II Collaboration], “Observation of the narrow state $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **93**, 072001 (2004) [arXiv:hep-ex/0312021].
127. D. Acosta *et al.* [CDF Collaboration], “Inclusive double pomeron exchange at the Fermilab Tevatron $p\bar{p}$ collider,” Phys. Rev. Lett. **93**, 141601 (2004) [arXiv:hep-ex/0311023].
128. V. M. Abazov *et al.* [CDF Collaboration], “Combination of CDF and DØ results on W boson mass and width,” Phys. Rev. D **70**, 092008 (2004) [arXiv:hep-ex/0311039].
129. D. Acosta *et al.* [CDF Collaboration], “Measurement of the polar-angle distribution of leptons from W boson decay as a function of the W transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **70**, 032004 (2004) [arXiv:hep-ex/0311050].
130. D. Acosta *et al.* [CDF II Collaboration], “Measurement of the mass difference $m(D_s^+) - m(D^+)$ at CDF II,” Phys. Rev. D **68**, 072004 (2003) [arXiv:hep-ex/0310043].
131. D. Acosta *et al.* [CDF Collaboration], “Measurement of the average time-integrated mixing probability of b -flavored hadrons produced at the Tevatron,” Phys. Rev. D **69**, 012002 (2004) [arXiv:hep-ex/0309030].
132. D. Acosta *et al.* [CDF Collaboration], “Search for the flavor-changing neutral current decay $D^0 \rightarrow \mu^+ \mu^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **68**, 091101 (2003) [arXiv:hep-ex/0308059].
133. D. Acosta *et al.* [CDF Collaboration], “Search for lepton flavor violating decays of a heavy neutral particle in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **91**, 171602 (2003) [arXiv:hep-ex/0307012].
134. D. Acosta *et al.* [CDF Collaboration], “Measurement of prompt charm meson production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **91**, 241804 (2003) [arXiv:hep-ex/0307080].
135. D. Acosta *et al.* [CDF Collaboration], “Search for pair production of scalar top quarks in R -parity violating decay modes in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **92**, 051803 (2004) [arXiv:hep-ex/0305010].
136. D. Acosta *et al.* [CDF Collaboration], “Central pseudorapidity gaps in events with a leading antiproton at the Fermilab Tevatron $p\bar{p}$ collider,” Phys. Rev. Lett. **91**, 011802 (2003) [arXiv:hep-ex/0303011].

137. D. Acosta *et al.* [CDF Collaboration], “Search for the supersymmetric partner of the top quark in dilepton events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **90**, 251801 (2003) [arXiv:hep-ex/0302009].
138. D. Acosta *et al.* [CDF Collaboration], “Search for associated production of Υ and vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **90**, 221803 (2003).
139. D. Acosta *et al.* [CDF Collaboration], “Search for long-lived charged massive particles in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **90**, 131801 (2003) [arXiv:hep-ex/0211064].
140. D. Acosta *et al.* [CDF Collaboration], “Cross section for forward J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **66**, 092001 (2002).
141. G. Barenboim *et al.*, “Detector R&D for future neutrino experiments with the NuMI beamline,” arXiv:hep-ex/0304017.
142. D. Acosta *et al.* [CDF Collaboration], “Search for a W' boson decaying to a top and bottom quark pair in 1.8 TeV $p\bar{p}$ collisions,” Phys. Rev. Lett. **90**, 081802 (2003) [arXiv:hep-ex/0209030].
143. D. Acosta *et al.* [CDF Collaboration], “Search for radiative b-hadron decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **66**, 112002 (2002) [arXiv:hep-ex/0208035].
144. D. Acosta *et al.* [CDF Collaboration], “Branching ratio measurements of exclusive B^+ decays to charmonium with the Collider Detector at Fermilab,” Phys. Rev. D **66**, 052005 (2002).
145. D. Acosta *et al.* [CDF Collaboration], “Measurement of the ratio of b quark production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV and $\sqrt{s} = 1800$ GeV,” Phys. Rev. D **66**, 032002 (2002) [arXiv:hep-ex/0206019].
146. D. Acosta *et al.* [CDF Collaboration], “Momentum distribution of charged particles in jets in dijet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV and comparisons to perturbative QCD predictions,” Phys. Rev. D **68**, 012003 (2003).
147. D. Acosta *et al.* [CDF Collaboration], “Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **89**, 281801 (2002) [arXiv:hep-ex/0205057].
148. D. Acosta *et al.* [CDF Collaboration], “Measurement of B meson lifetimes using fully reconstructed B decays produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **65**, 092009 (2002).
149. D. Acosta *et al.* [CDF Collaboration], “Search for new physics in photon lepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV,” Phys. Rev. Lett. **89**, 041802 (2002) [arXiv:hep-ex/0202044].
150. D. Acosta *et al.* [CDF Collaboration], “Comparison of the isolated direct photon cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV and $\sqrt{s} = 0.63$ -TeV,” Phys. Rev. D **65**, 112003 (2002) [arXiv:hep-ex/0201004].

151. D. Acosta *et al.* [CDF Collaboration], “Measurement of the B^+ total cross section and B^+ differential cross section $d\sigma/dp_T$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$,” Phys. Rev. D **65**, 052005 (2002) [arXiv:hep-ph/0111359].
152. D. Acosta *et al.* [CDF Collaboration], “Upsilon production and polarization in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$,” Phys. Rev. Lett. **88**, 161802 (2002).
153. D. Acosta *et al.* [CDF Collaboration], “Search for new physics in photon lepton events in proton antiproton collisions at $\sqrt{s} = 1.8\text{-TeV}$,” Phys. Rev. D **66**, 012004 (2002) [arXiv:hep-ex/0110015].
154. D. Acosta *et al.* [CDF Collaboration], “Search for the decay $B_s \rightarrow \mu^+\mu^-\phi$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$,” Phys. Rev. D **65**, 111101 (2002).
155. D. Acosta *et al.* [CDF Collaboration], “Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$,” Phys. Rev. D **65**, 091102 (2002) [arXiv:hep-ex/0110067].
156. D. Acosta *et al.* [CDF Collaboration], “Soft and hard interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1800\text{-GeV}$ and 630-GeV ,” Phys. Rev. D **65**, 072005 (2002).
157. D. Acosta *et al.* [CDF Collaboration], “Study of the heavy flavor content of jets produced in association with W bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$,” Phys. Rev. D **65**, 052007 (2002) [arXiv:hep-ex/0109012].
158. A. A. Affolder *et al.* [CDF Collaboration], “Diffractive dijet production at $\sqrt{s} = 630\text{ GeV}$ and 1800 GeV at the Fermilab Tevatron,” Phys. Rev. Lett. **88**, 151802 (2002) [arXiv:hep-ex/0109025].
159. A. A. Affolder *et al.* [CDF Collaboration], “Search for new heavy particles in the WZ^0 final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{TeV}$,” Phys. Rev. Lett. **88**, 071806 (2002) [arXiv:hep-ex/0108004].
160. A. A. Affolder *et al.* [CDF Collaboration], “A study of $B^0 \rightarrow J/\psi K^{(*)0} \pi^+ \pi^-$ decays with the Collider Detector at Fermilab,” Phys. Rev. Lett. **88**, 071801 (2002) [arXiv:hep-ex/0108022].
161. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the strong coupling constant from inclusive jet production at the Tevatron $p\bar{p}$ collider,” Phys. Rev. Lett. **88**, 042001 (2002) [arXiv:hep-ex/0108034].
162. A. A. Affolder *et al.* [CDF Collaboration], “Charged jet evolution and the underlying event in $p\bar{p}$ collisions at 1.8 TeV ,” Phys. Rev. D **65**, 092002 (2002).
163. A. A. Affolder *et al.* [CDF Collaboration], “Search for quark lepton compositeness and a heavy W' boson using the $e\nu$ channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$,” Phys. Rev. Lett. **87**, 231803 (2001) [arXiv:hep-ex/0107008].
164. A. A. Affolder *et al.* [CDF Collaboration], “Charged particle multiplicity in jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$,” Phys. Rev. Lett. **87**, 211804 (2001).
165. A. A. Affolder *et al.* [CDF Collaboration], “Observation of diffractive J/ψ production at the Fermilab Tevatron,” Phys. Rev. Lett. **87**, 241802 (2001) [arXiv:hep-ex/0107071].

166. A. A. Affolder *et al.* [CDF Collaboration], “Search for gluinos and scalar quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the missing energy plus multijets signature,” Phys. Rev. Lett. **88**, 041801 (2002) [arXiv:hep-ex/0106001].
167. A. A. Affolder *et al.* [CDF Collaboration], “Cross section and heavy quark composition of $\gamma + \mu$ events produced in $p\bar{p}$ collisions,” Phys. Rev. D **65**, 012003 (2002) [arXiv:hep-ex/0106004].
168. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of $d(\sigma)/dM$ and forward-backward charge asymmetry for high mass Drell-Yan e^+e^- pairs from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **87**, 131802 (2001) [arXiv:hep-ex/0106047].
169. A. A. Affolder *et al.* [CDF Collaboration], “Search for gluinos and squarks using like-sign dileptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **87**, 251803 (2001) [arXiv:hep-ex/0106061].
170. A. A. Affolder *et al.* [CDF Collaboration], “Searches for new physics in events with a photon and b-quark jet at CDF,” Phys. Rev. D **65**, 052006 (2002) [arXiv:hep-ex/0106012].
171. A. A. Affolder *et al.* [CDF Collaboration], “Search for narrow diphoton resonances and for $\gamma\gamma + W/Z$ signatures in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **64**, 092002 (2001) [arXiv:hep-ex/0105066].
172. A. A. Affolder *et al.* [CDF Collaboration], “Double diffraction dissociation at the Fermilab Tevatron collider,” Phys. Rev. Lett. **87**, 141802 (2001) [arXiv:hep-ex/0107070].
173. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **64**, 032002 (2001) [Erratum-ibid. D **67**, 119901 (2003)] [arXiv:hep-ex/0101036].
174. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **64**, 032001 (2001) [Erratum-ibid. D **65**, 039903 (2002)] [arXiv:hep-ph/0102074].
175. A. A. Affolder *et al.* [CDF Collaboration], “Production of χ_{c1} and χ_{c2} in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **86**, 3963 (2001).
176. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the two-jet differential cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV,” Phys. Rev. D **64**, 012001 (2001) [Erratum-ibid. D **65**, 039902 (2002)] [arXiv:hep-ex/0012013].
177. A. A. Affolder *et al.* [CDF Collaboration], “First measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ and associated limit on the CKM element $|V_{tb}|$,” Phys. Rev. Lett. **86**, 3233 (2001) [arXiv:hep-ex/0012029].
178. A. A. Affolder *et al.* [CDF Collaboration], “Search for the supersymmetric partner of the top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **63**, 091101 (2001) [arXiv:hep-ex/0011004].
179. A. A. Affolder *et al.* [CDF Collaboration], “Search for neutral supersymmetric Higgs bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **86**, 4472 (2001) [arXiv:hep-ex/0010052].

180. A. A. Affolder *et al.* [CDF Collaboration], “Test of enhanced leading order QCD in W boson plus jets events from 1.8 TeV $p\bar{p}$ collisions,” Phys. Rev. D **63**, 072003 (2001).
181. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the decay amplitudes of $B^0 \rightarrow J/\psi K^{*0}$ and $B_s^0 \rightarrow J/\psi \phi$ decays,” Phys. Rev. Lett. **85**, 4668 (2000) [arXiv:hep-ex/0007034].
182. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the W boson mass with the Collider Detector at Fermilab,” Phys. Rev. D **64**, 052001 (2001) [arXiv:hep-ex/0007044].
183. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of $d(\sigma)/dy$ for high mass Drell-Yan e^+e^- pairs from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **63**, 011101 (2001) [arXiv:hep-ex/0006025].
184. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the top quark mass with the Collider Detector at Fermilab,” Phys. Rev. D **63**, 032003 (2001) [arXiv:hep-ex/0006028].
185. A. A. Affolder *et al.* [CDF Collaboration], “Dijet production by double pomeron exchange at the Fermilab Tevatron,” Phys. Rev. Lett. **85**, 4215 (2000).
186. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the top quark p_T distribution,” Phys. Rev. Lett. **87**, 102001 (2001).
187. A. A. Affolder *et al.* [CDF Collaboration], “Search for second and third generation leptoquarks including production via technicolor interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **85**, 2056 (2000) [arXiv:hep-ex/0004003].
188. A. A. Affolder *et al.* [CDF Collaboration], “Direct measurement of the W boson width in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **85**, 3347 (2000) [arXiv:hep-ex/0004017].
189. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of J/ψ and $\psi(2S)$ polarization in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **85**, 2886 (2000) [arXiv:hep-ex/0004027].
190. A. A. Affolder *et al.* [CDF Collaboration], “Search for new particles decaying to $t\bar{t}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **85**, 2062 (2000) [arXiv:hep-ex/0003005].
191. A. A. Affolder *et al.* [CDF Collaboration], “Diffractive dijets with a leading antiproton in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV,” Phys. Rev. Lett. **84**, 5043 (2000).
192. A. A. Affolder *et al.* [CDF Collaboration], “Limits on gravitino production and new processes with large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **85**, 1378 (2000) [arXiv:hep-ex/0003026].
193. A. A. Affolder *et al.* [CDF Collaboration], “Search for the charged Higgs boson in the decays of top quark pairs in the $e\tau$ and $\mu\tau$ channels at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **62**, 012004 (2000) [arXiv:hep-ex/9912013].

194. A. A. Affolder *et al.* [CDF Collaboration], “A measurement of the differential dijet mass cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **61**, 091101 (2000) [arXiv:hep-ex/9912022].
195. A. A. Affolder *et al.* [CDF Collaboration], “Observation of orbitally excited B mesons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **64**, 072002 (2001).
196. A. A. Affolder *et al.* [CDF Collaboration], “Search for scalar top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 5273 (2000) [arXiv:hep-ex/9912018].
197. A. A. Affolder *et al.* [CDF Collaboration], “Production of $\Upsilon(1S)$ mesons from χ_b decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 2094 (2000) [arXiv:hep-ex/9910025].
198. A. A. Affolder *et al.* [CDF Collaboration], “Search for scalar top and scalar bottom quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 5704 (2000) [arXiv:hep-ex/9910049].
199. A. A. Affolder *et al.* [CDF Collaboration], “A measurement of $\sin(2\beta)$ from $B \rightarrow J/\psi K_S^0$ with the CDF detector,” Phys. Rev. D **61**, 072005 (2000) [arXiv:hep-ex/9909003].
200. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of b quark fragmentation fractions in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 1663 (2000) [arXiv:hep-ex/9909011].
201. A. A. Affolder *et al.* [CDF Collaboration], “Search for a fourth-generation quark more massive than the Z^0 boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 835 (2000) [arXiv:hep-ex/9909027].
202. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the helicity of W bosons in top quark decays,” Phys. Rev. Lett. **84**, 216 (2000) [arXiv:hep-ex/9909042].
203. F. Abe *et al.* [CDF Collaboration], “Search for a W' boson via the decay mode $W' \rightarrow \mu\nu_\mu$ in 1.8 TeV $p\bar{p}$ collisions,” Phys. Rev. Lett. **84**, 5716 (2000) [arXiv:hep-ex/9910004].
204. A. A. Affolder *et al.* [CDF Collaboration], “Observation of diffractive beauty production at the Fermilab Tevatron,” Phys. Rev. Lett. **84**, 232 (2000).
205. A. A. Affolder *et al.* [CDF Collaboration], “The transverse momentum and total cross section of e^+e^- pairs in the Z boson region from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 845 (2000) [arXiv:hep-ex/0001021].
206. A. A. Affolder *et al.* [CDF Collaboration], “Measurement of the $B^0\bar{B}^0$ oscillation frequency using $\ell^- D^{*+}$ pairs and lepton flavor tags,” Phys. Rev. D **60**, 112004 (1999) [arXiv:hep-ex/9907053].
207. A. A. Affolder *et al.* [CDF Collaboration], “Search for the flavor-changing neutral current decays $B^+ \rightarrow \mu^+\mu^-K^+$ and $B^0 \rightarrow \mu^+\mu^-K^{*0}$,” Phys. Rev. Lett. **83**, 3378 (1999) [arXiv:hep-ex/9905004].

208. A. A. Affolder *et al.* [CDF Collaboration], “Search for color singlet technicolor particles in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **84**, 1110 (2000).
209. F. Abe *et al.* [CDF Collaboration], “Measurement of $B^0\bar{B}^0$ flavor oscillations using jet-charge and lepton flavor tagging in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **60**, 072003 (1999) [arXiv:hep-ex/9903011].
210. F. Abe *et al.* [CDF Collaboration], “Measurement of the associated $\gamma + \mu^\pm$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **60**, 092003 (1999) [arXiv:hep-ex/9902001].
211. F. Abe *et al.* [The CDF Collaboration], “Measurement of the $B_d^0\bar{B}_d^0$ oscillation frequency using dimuon data in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **60**, 051101 (1999).
212. F. Abe *et al.* [CDF Collaboration], “Measurement of b quark fragmentation fractions in the production of strange and light B mesons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **60**, 092005 (1999).
213. K. Tollefson and E. W. Varnes, “Direct measurement of the top quark mass,” Ann. Rev. Nucl. Part. Sci. **49**, 435 (1999).
214. F. Abe *et al.* [CDF Collaboration], “Measurement of $b\bar{b}$ rapidity correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **61**, 032001 (2000).
215. J. Fromm *et al.*, “Application of PC’s and Linux to the CDF Run II level 3 trigger,”
216. F. Abe *et al.* [CDF Collaboration], “A search for $B_s^0\bar{B}_s^0$ oscillations using the semileptonic decay $B_s^0 \rightarrow \phi\ell^+X\nu$,” Phys. Rev. Lett. **82**, 3576 (1999).
217. F. Abe *et al.* [CDF Collaboration], “Search for the decays $B_d^0 \rightarrow \mu^+\mu^-$ and $B_s^0 \rightarrow \mu^+\mu^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **57**, 3811 (1998).
218. F. Abe *et al.* [CDF Collaboration], “Search for third-generation leptoquarks from technicolor models in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **82**, 3206 (1999).
219. F. Abe *et al.* [CDF Collaboration], “Search for R -parity violating supersymmetry using like-sign dielectrons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **83**, 2133 (1999) [arXiv:hep-ex/9908063].
220. F. Abe *et al.* [CDF Collaboration], “Measurement of the top quark mass with the Collider Detector at Fermilab,” Phys. Rev. Lett. **82**, 271 (1999) [Erratum-ibid. **82**, 2808 (1999)] [arXiv:hep-ex/9810029].
221. F. Abe *et al.* [CDF Collaboration], “Search for a technicolor omega(T) particle in events with a photon and a b quark jet at CDF,” Phys. Rev. Lett. **83**, 3124 (1999) [arXiv:hep-ex/9810031].
222. F. Abe *et al.* [CDF Collaboration], “Kinematics of $t\bar{t}$ events at CDF,” Phys. Rev. D **59**, 092001 (1999).

223. F. Abe *et al.* [CDF Collaboration], “Measurement of the lepton charge asymmetry in W boson decays produced in $p\bar{p}$ collisions,” Phys. Rev. Lett. **81**, 5754 (1998) [arXiv:hep-ex/9809001].
224. F. Abe *et al.* [CDF Collaboration], “Search for new particles decaying to $b\bar{b}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **82**, 2038 (1999) [arXiv:hep-ex/9809022].
225. F. Abe *et al.* [CDF Collaboration], “Measurement of Z^0 and Drell-Yan production cross section using dimuons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **59**, 052002 (1999).
226. F. Abe *et al.* [CDF Collaboration], “Measurement of the B_s^0 meson lifetime using semileptonic decays,” Phys. Rev. D **59**, 032004 (1999) [arXiv:hep-ex/9808003].
227. F. Abe *et al.* [CDF Collaboration], “Search for Higgs bosons produced in association with a vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **81**, 5748 (1998).
228. F. Abe *et al.* [CDF Collaboration], “Search for the decays $B_s^0, B_d^0 \rightarrow e^\pm \mu^\pm$ and Pati-Salam leptoquarks,” Phys. Rev. Lett. **81**, 5742 (1998).
229. F. Abe *et al.* [CDF Collaboration], “Events with a rapidity gap between jets in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV,” Phys. Rev. Lett. **81**, 5278 (1998).
230. J. Fromm *et al.* [CDF Collaboration], “ATM based event building and PC based level three trigger at CDF,”
231. F. Abe *et al.* [CDF Collaboration], “Search for second generation leptoquarks in the dimuon plus dijet channel of $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **81**, 4806 (1998) [arXiv:hep-ex/9810024].
232. K. Tollefson, “Top quark production and decay measurements from CDF,”
233. F. Abe *et al.* [CDF Collaboration], “Improved measurement of the B^- and \bar{B}^0 meson lifetimes using semileptonic decays,” Phys. Rev. D **58**, 092002 (1998) [arXiv:hep-ex/9806018].
234. F. Abe *et al.* [CDF Collaboration], “Measurement of the CP-violation parameter $\sin(2\beta)$ in $B_d^0/\bar{B}_d^0 \rightarrow J/\psi K_S^0$ decays,” Phys. Rev. Lett. **81**, 5513 (1998) [arXiv:hep-ex/9806025].
235. F. Abe *et al.* [CDF Collaboration], “Measurement of the $B_d^0 - \bar{B}_d^0$ flavor oscillation frequency and study of same side flavor tagging of B mesons in $p\bar{p}$ collisions,” Phys. Rev. D **59**, 032001 (1999) [arXiv:hep-ex/9806026].
236. F. Abe *et al.* [CDF Collaboration], “Searches for new physics in diphoton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **59**, 092002 (1999) [arXiv:hep-ex/9806034].
237. F. Abe *et al.* [The CDF Collaboration], “Search for long-lived parents of Z^0 bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **58**, 051102 (1998) [arXiv:hep-ex/9805017].

238. F. Abe *et al.* [CDF Collaboration], “Observation of the B_c meson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **81**, 2432 (1998) [arXiv:hep-ex/9805034].
239. F. Abe *et al.* [CDF Collaboration], “Search for the rare decay $W^\pm \rightarrow D_s^{+-}\gamma$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **58**, 091101 (1998).
240. F. Abe *et al.* [CDF Collaboration], “Observation of B_c mesons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **58**, 112004 (1998) [arXiv:hep-ex/9804014].
241. F. Abe *et al.* [CDF Collaborations], “Measurement of the $\sigma(W + \geq 1\text{jet})/\sigma(W)$ cross section ratio from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **81**, 1367 (1998).
242. F. Abe *et al.* [CDF collaboration], “Search for chargino neutralino associated production at the Fermilab Tevatron Collider,” Phys. Rev. Lett. **80**, 5275 (1998) [arXiv:hep-ex/9803015].
243. F. Abe *et al.* [CDF Collaboration], “Observation of $B^+ \rightarrow \psi(2S)K^+$ and $B^0 \rightarrow \psi(2S)K^{*0}(892)$ decays and measurements of B meson branching fractions into J/ψ and $\psi(2S)$ final states,” Phys. Rev. D **58**, 072001 (1998) [arXiv:hep-ex/9803013].
244. F. Abe *et al.* [CDF Collaboration], “Search for the rare decay $W^\pm \rightarrow \pi^\pm + \gamma$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **58**, 031101 (1998).
245. F. Abe *et al.* [CDF Collaboration], “Searches for new physics in diphoton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **81**, 1791 (1998) [arXiv:hep-ex/9801019].
246. K. A. Tollefson, “A Measurement of the top quark mass,”
247. F. Abe *et al.* [CDF Collaboration], “Observation of hadronic W decays in $t\bar{t}$ events with the Collider Detector at Fermilab,” Phys. Rev. Lett. **80**, 5720 (1998) [arXiv:hep-ex/9711004].
248. F. Abe *et al.* [CDF Collaboration], “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **80**, 2773 (1998) [arXiv:hep-ex/9710008].
249. F. Abe *et al.* [CDF Collaboration], “Measurement of the top quark mass,” Phys. Rev. Lett. **80**, 2767 (1998) [arXiv:hep-ex/9801014].
250. F. Abe *et al.* [CDF Collaboration], “Measurement of B hadron lifetimes using J/ψ final states at CDF,” Phys. Rev. D **57**, 5382 (1998).
251. F. Abe *et al.* [CDF Collaboration], “Measurement of the $B^0\bar{B}^0$ oscillation frequency using πB meson charge-flavor correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **80**, 2057 (1998) [arXiv:hep-ex/9712004].
252. F. Abe *et al.* [CDF Collaboration], “Measurement of the top quark mass and $t\bar{t}$ production cross section from dilepton events at the Collider Detector at Fermilab,” Phys. Rev. Lett. **80**, 2779 (1998) [arXiv:hep-ex/9802017].
253. F. Abe *et al.* [CDF Collaboration], “Search for first generation leptoquark pair production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **79**, 4327 (1997) [arXiv:hep-ex/9708017].

254. F. Abe *et al.* [CDF Collaboration], “Dijet production by color-singlet exchange at the Fermilab Tevatron,” *Phys. Rev. Lett.* **80**, 1156 (1998).
255. F. Abe *et al.* [CDF Collaboration], “Measurement of the differential cross section for events with large total transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **80**, 3461 (1998).
256. F. Abe *et al.* [CDF Collaboration], “Properties of jets in W boson events from 1.8 TeV $p\bar{p}$ collisions,” *Phys. Rev. Lett.* **79**, 4760 (1997) [arXiv:hep-ex/9709016].
257. F. Abe *et al.* [CDF Collaboration], “Jet pseudorapidity distribution in direct photon events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. D* **57**, 1359 (1998).
258. F. Abe *et al.* [CDF Collaboration], “Search for new particles decaying into $b\bar{b}$ and produced in association with W bosons decaying into $e\nu$ or $\mu\nu$ at the Tevatron,” *Phys. Rev. Lett.* **79**, 3819 (1997).
259. F. Abe *et al.* [CDF Collaboration], “Search for flavor-changing neutral current decays of the top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **80**, 2525 (1998).
260. F. Abe *et al.* [CDF Collaboration], “Search for new gauge bosons decaying into dileptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **79**, 2192 (1997).
261. F. Abe *et al.* [CDF Collaboration], “Limits on quark-lepton compositeness scales from dileptons produced in 1.8 TeV $p\bar{p}$ collisions,” *Phys. Rev. Lett.* **79**, 2198 (1997).
262. F. Abe *et al.* [CDF Collaboration], “Search for charged Higgs decays of the top quark using hadronic decays of the tau lepton,” *Phys. Rev. Lett.* **79**, 357 (1997) [arXiv:hep-ex/9704003].
263. F. Abe *et al.* [CDF Collaboration], “Measurement of double parton scattering in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **79**, 584 (1997).
264. F. Abe *et al.* [CDF Collaboration], “The mu tau and e tau decays of top quark pairs produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **79**, 3585 (1997) [arXiv:hep-ex/9704007].
265. F. Abe *et al.* [CDF Collaboration], “Double parton scattering in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. D* **56**, 3811 (1997).
266. F. Abe *et al.* [CDF Collaboration], “Properties of six-jet events with large six-jet mass at the Fermilab $p\bar{p}$ collider,” *Phys. Rev. D* **56**, 2532 (1997).
267. F. Abe *et al.* [CDF Collaboration], “Properties of photon plus two-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. D* **57**, 67 (1998).
268. F. Abe *et al.* [CDF Collaboration], “Measurement of diffractive dijet production at the Tevatron,” *Phys. Rev. Lett.* **79**, 2636 (1997).
269. F. Abe *et al.* [CDF Collaboration], “First observation of the all hadronic decay of $t\bar{t}$ pairs,” *Phys. Rev. Lett.* **79**, 1992 (1997).
270. F. Abe *et al.* [CDF Collaboration], “Search for new particles decaying to dijets at CDF,” *Phys. Rev. D* **55**, 5263 (1997) [arXiv:hep-ex/9702004].

271. F. Abe *et al.* [CDF Collaboration], “ J/ψ and $\psi(2S)$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **79**, 572 (1997).
272. F. Abe *et al.* [CDF Collaboration], “Search for gluinos and squarks at the Fermilab Tevatron collider,” Phys. Rev. D **56**, 1357 (1997).
273. F. Abe *et al.* [CDF Collaboration], “Production of J/ψ mesons from χ_c meson decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **79**, 578 (1997).
274. F. Abe *et al.* [CDF Collaboration], “Observation of diffractive W boson production at the Tevatron,” Phys. Rev. Lett. **78**, 2698 (1997) [arXiv:hep-ex/9703010].
275. F. Abe *et al.* [CDF Collaboration], “Search for third generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **78**, 2906 (1997).
276. R. Blair *et al.* [CDF-II Collaboration], “The CDF-II detector: Technical design report,”
277. F. Abe *et al.* [CDF Collaboration], “Measurement of the branching fraction $B(B_u^+ \rightarrow J/\psi\pi^+)$ and search for $B_c^+ \rightarrow J/\psi\pi^+$,” Phys. Rev. Lett. **77**, 5176 (1996).
278. F. Abe *et al.* [CDF Collaboration], “Observation of W^+W^- production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **78**, 4536 (1997).
279. F. Abe *et al.* [CDF Collaboration], “Measurement of dijet angular distributions at CDF,” Phys. Rev. Lett. **77**, 5336 (1996) [Erratum-ibid. **78**, 4307 (1997)] [arXiv:hep-ex/9609011].
280. F. Abe *et al.* [CDF Collaboration], “Measurement of $b\bar{b}$ production correlations, $B^0\bar{B}^0$ mixing, and a limit on $\epsilon(B)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **55**, 2546 (1997).
281. F. Abe *et al.* [CDF Collaboration], “Observation of $\Lambda_b^0 \rightarrow J/\psi\Lambda$ at the Fermilab proton antiproton collider,” Phys. Rev. D **55**, 1142 (1997).
282. K. Tollefson [CDF Collaboration], “The top quark mass measurement in the lepton + jets channel from CDF,” *Prepared for 9th Annual Divisional Meeting (DPF 96) of the Division of Particles and Fields of the American Physical Society, Minneapolis, Minnesota, 11-15 Aug 1996*
283. F. Abe *et al.* [CDF Collaboration], “Ratios of bottom meson branching fractions involving J/ψ mesons and determination of b quark fragmentation fractions,” Phys. Rev. D **54**, 6596 (1996) [arXiv:hep-ex/9607003].
284. F. Abe *et al.* [CDF Collaboration], “Measurement of the $\gamma + D^{*\pm}$ cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **77**, 5005 (1996).
285. F. Abe *et al.* [CDF Collaboration], “Measurement of the lifetime of the B_s^0 meson using the exclusive decay mode $B_s^0 \rightarrow J/\psi\phi$,” Phys. Rev. Lett. **77**, 1945 (1996).
286. F. Abe *et al.* [CDF Collaboration], “Further Properties of High-Mass Multijet Events at the Fermilab Proton-Antiproton Collider,” Phys. Rev. D **54**, 4221 (1996) [arXiv:hep-ex/9605004].

287. D. Amidei *et al.* [TeV-2000 Study Group], “Future electroweak physics at the Fermilab Tevatron: Report of the TeV-2000 Study Group,”
288. F. Abe *et al.* [CDF Collaboration], “Measurement of Λ_b^0 lifetime using $\Lambda_b^0 \rightarrow \Lambda_c^+ \ell^- \bar{\nu}$,” Phys. Rev. Lett. **77**, 1439 (1996).
289. F. Abe *et al.* [CDF Collaboration], “Properties of jets in Z boson events from 1.8 TeV $p\bar{p}$ collisions,” Phys. Rev. Lett. **77**, 448 (1996) [arXiv:hep-ex/9603003].
290. F. Abe *et al.* [CDF Collaboration], “Forward-backward charge asymmetry of electron pairs above the Z^0 pole,” Phys. Rev. Lett. **77**, 2616 (1996).
291. F. Abe *et al.* [CDF Collaboration], “Measurement of the B^- and \bar{B}^0 meson lifetimes using semileptonic decays,” Phys. Rev. Lett. **76**, 4462 (1996).
292. F. Abe *et al.* [CDF Collaboration], “Search for flavor changing neutral current B meson decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **76**, 4675 (1996).
293. F. Abe *et al.* [CDF Collaboration], “Inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **77**, 438 (1996) [arXiv:hep-ex/9601008].
294. F. Abe *et al.* [CDF Collaboration], “Search for chargino - neutralino production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **76**, 4307 (1996) [arXiv:hep-ex/9603001].
295. F. Abe *et al.* [CDF Collaboration], “The Collider Detector at Fermilab: Collected physics papers,”
296. F. Abe *et al.* [CDF Collaboration], “Search for gluino and squark cascade decays at the Fermilab Tevatron Collider,” Phys. Rev. Lett. **76**, 2006 (1996).
297. F. Abe *et al.* [CDF Collaboration], “Search for charged Higgs decays of the top quark using hadronic tau decays,” Phys. Rev. D **54**, 735 (1996) [arXiv:hep-ex/9601003].
298. F. Abe *et al.* [CDF Collaboration], “Reconstruction of $B^0 \rightarrow J/\psi K_s^0$ and measurement of ratios of branching ratios involving $B \rightarrow J/\psi K^*$,” Phys. Rev. Lett. **76**, 2015 (1996).
299. F. Abe *et al.* [CDF Collaboration], “Search for the rare decay $W^\pm \rightarrow \pi^\pm + \gamma$,” Phys. Rev. Lett. **76**, 2852 (1996).
300. F. Abe *et al.* [CDF Collaboration], “Measurement of $\sigma \cdot B(W \rightarrow e\nu)$ and $\sigma \cdot B(Z^0 \rightarrow e^+e^-)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **76**, 3070 (1996) [arXiv:hep-ex/9509010].
301. F. Abe *et al.* [CDF Collaboration], “Measurement of the mass of the B_s^0 meson,” Phys. Rev. D **53**, 3496 (1996).
302. F. Abe *et al.* [CDF Collaboration], “Measurement of the polarization in the decays $B_d \rightarrow J/\psi K^{*0}$ and $B_s \rightarrow J/\psi \phi$,” Phys. Rev. Lett. **75**, 3068 (1995).
303. F. Abe *et al.* [CDF Collaboration], “ Υ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **75**, 4358 (1995).

304. F. Abe *et al.* [CDF Collaboration], “Measurement of correlated $\mu - \bar{b}$ jet cross-sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **53**, 1051 (1996) [arXiv:hep-ex/9508017].
305. F. Abe *et al.* [CDF Collaboration], “Study of $t\bar{t}$ production $p\bar{p}$ collisions using total transverse energy,” Phys. Rev. Lett. **75**, 3997 (1995) [arXiv:hep-ex/9506006].
306. F. Abe *et al.* [CDF Collaboration], “Identification of top quarks at CDF using kinematic variables,” Phys. Rev. D **52**, 2605 (1995).
307. F. Abe *et al.* [CDF Collaboration], “Observation of top quark production in $p\bar{p}$ collisions,” Phys. Rev. Lett. **74**, 2626 (1995) [arXiv:hep-ex/9503002].
308. F. Abe *et al.* [CDF Collaboration], “Limits on WWZ and $WW\gamma$ couplings from WW and WZ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **75**, 1017 (1995) [arXiv:hep-ex/9503009].
309. F. Abe *et al.* [CDF Collaboration], “Measurement of the W boson mass,” Phys. Rev. D **52**, 4784 (1995).
310. F. Abe *et al.* [CDF Collaboration], “Measurement of the W boson mass,” Phys. Rev. Lett. **75**, 11 (1995) [arXiv:hep-ex/9503007].
311. F. Abe *et al.* [CDF Collaboration], “Properties of high mass multi - jet events at the Fermilab $p\bar{p}$ collider,” Phys. Rev. Lett. **75**, 608 (1995).
312. F. Abe *et al.* [CDF Collaboration], “Measurement of the B meson differential cross-section, $d\sigma/dp_T$, in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **75**, 1451 (1995) [arXiv:hep-ex/9503013].
313. F. Abe *et al.* [CDF Collaboration], “A Search for second generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **75**, 1012 (1995).
314. F. Abe *et al.* [CDF Collaboration], “A Measurement of the ratio $\sigma \times B(p\bar{p} \rightarrow W \rightarrow e\nu)/\sigma \times B(p\bar{p} \rightarrow Z^0 \rightarrow ee)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV,” Phys. Rev. D **52**, 2624 (1995).
315. F. Abe *et al.* [CDF Collaboration], “Search for new particles decaying to dijets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **74**, 3538 (1995) [arXiv:hep-ex/9501001].
316. F. Abe *et al.* [CDF Collaboration], “Measurement of the B_s meson lifetime,” Phys. Rev. Lett. **74**, 4988 (1995) [arXiv:hep-ex/9412017].
317. F. Abe *et al.* [CDF Collaboration], “Kinematic evidence for top quark pair production in $W +$ multi - jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. D **51**, 4623 (1995) [arXiv:hep-ex/9412009].
318. F. Abe *et al.* [CDF Collaboration], “Search for the top quark decaying to a charged Higgs boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” Phys. Rev. Lett. **73**, 2667 (1994).
319. F. Abe *et al.* [CDF Collaboration], “A Direct measurement of the W boson width,” Phys. Rev. Lett. **74**, 341 (1995).

320. F. Abe *et al.* [CDF Collaboration], “The Charge asymmetry in W boson decays produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **74**, 850 (1995) [arXiv:hep-ex/9501008].
321. F. Abe *et al.* [CDF Collaboration], “Limits on Z -photon couplings from $p\bar{p}$ interactions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **74**, 1941 (1995).
322. S. Cihangir *et al.*, “SVX-’: The New CDF silicon vertex detector,” *Nucl. Instrum. Meth. A* **360**, 137 (1995).
323. F. Abe *et al.* [CDF Collaboration], “Measurement of $W - \gamma$ couplings with CDF in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **74**, 1936 (1995).
324. F. Abe *et al.* [CDF Collaboration], “Search for charged bosons heavier than the W in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV,” *Phys. Rev. Lett.* **74**, 2900 (1995).
325. F. Abe *et al.* [CDF Collaboration], “Search for new gauge bosons decaying into dielectrons in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. D* **51**, 949 (1995).
326. F. Abe *et al.* [CDF Collaboration], “A Precision measurement of the prompt photon cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **73**, 2662 (1994) [Erratum-ibid. **74**, 1891 (1995)].
327. F. Abe *et al.* [CDF Collaboration], “Evidence for top quark production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **73**, 225 (1994) [arXiv:hep-ex/9405005].
328. F. Abe *et al.* [CDF Collaboration], “ W boson + jet angular distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. Lett.* **73**, 2296 (1994).
329. F. Abe *et al.* [CDF Collaboration], “Evidence for top quark production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV,” *Phys. Rev. D* **50**, 2966 (1994).
330. C. Bromberg, J. Huston, R. Miller, S. Pollack, D. Shoultz, K. Tollefson and B. Williams, “A Dichromatic Scintillating Fiber Calorimeter,” *Prepared for International Conference on Calorimetry in High-energy Physics, Batavia, IL, 29 Oct - 1 Nov 1990*