I have divided my papers into two categories: 1) Primary Publications, for which I played a primary role, and 2) Other Publications, for which I played a substantial role in building the detector and acquiring the data (in the case of CDF, largely through my role with the trigger and data access work), and feel knowledgable about the technical aspects of the paper. More recently, as CDF has grown in size, I have adopted the 'opt-in' policy of not being on the default author list, but instead having to specifically ask that my name be added to the list of CDF authors for a paper.

## **1** Primary Publications:

- 1. A Search for the Decays  $K_L^0 \to \mu^+ \mu^-, e^+ e^-, \mu^\pm e^\pm$ , (with A. Clark et al.), Phys. Rev. Lett. 26, 1661 (1971).
- Observed Difference in the Range of Positive and Negative Muons, (with A. Clark et al.), Phys. Letters 41B, 229 (1972).
- 3. Neutrino Mass Limits from the  $K_L^0 \to \pi^{\pm} e^{\pm} \nu$  Decay Spectrum, (with A. Clark et al.), Phys. Rev. **D3**, 533 (1972).
- 4. Search for Fine Structure in the  $K_L^0$  Final States, Nature 237, (with A. Clark et al.), 338 (1973).
- Production of Hadrons with Large Transverse Momentum at 200 and 300 GeV, (with J. Cronin et al.), Phys. Rev. Lett. 31, 1426 (1973).
- Observation of Large Transverse Momentum Muons Directly Produced by 300 GeV Protons, (with J. Cronin et al.), Phys. Rev. Lett. 33, 112.
- Search for Massive Penetrating Particles Produced by 300 GeV Protons, (with J. Cronin et al.), Phys. Rev. D10, 3093 (1974).
- Production of Hadrons at Large Transverse Momentum at 200, 300 and 400 GeV, (with J. Cronin et al.), Phys. Rev. D11, 3105 (1975).
- Measurement of Direct Muon Production in the Forward Direction, (with D. Buchholz et al.), Phys. Rev. Lett. 36, 932 (1976).
- Production of Massive Muon Pairs by 300 and 400 GeV Protons, (with L. Kluberg et al.), Phys. Rev. Lett. 37, 1451 (1976).
- 11. Production of  $\pi^+$  and  $\pi^-$  at Large Transverse Momentum in p-p and p-d Collisions at 200, 300, and 400 GeV, (with D. Antreasyan et al.), Phys. Rev. Lett. **38**, 112 (1977).
- Production of Kaons, Protons and Antiprotons with Large Transverse Momentum in p-p and p-d Collisions at 200, 300, and 400 GeV, (with D. Antreasyan et al.), Phys. Rev. Lett. 38, 115 (1977).
- Atomic-Number Dependence of Large-Transverse-Momentum Hadron Production by Protons, (with L. Kluberg et al.), Phys. Rev. Lett. 38, 670 (1977).
- 14. Measurement of the Branching Ratio  $\Gamma(K_L^0 \to \pi^+\pi^-)/\Gamma(K_L^0 \to \text{all})$ , (with R. Devoe et al.), Phys. Rev. **D16**, 565 (1977).
- 15. Measurement of the Decay Rate for the Rare Process  $K^0 \to \mu^+ \mu^-$ , (with M. Shochet et al.), Phys. Rev. Lett. **39**, 59 (1977).
- Search for Quarks Produced with Large Transverse Momentum in 400-GeV Proton-Nucleus Collisions, (with D. Antreasyan et al.), Phys. Rev. Lett. 39, 512 (1977).
- Test of Scaling in Muon-Pair Production by Hadrons, (with D. Antreasyan et al.), Phys. Rev. Lett. 39, 906 (1977).
- Production of Hadrons at Large Transverse Momentum in 200, 300, and 400 GeV π-p and π-nucleus Collisions, (with D. Antreasyan et al.), Phys. Rev. D19, 764 (1979).

- 19. Measurement of the Decay Rate for the Process  $K_L^0 \to \mu^+ \mu^-$ , (with M. Shochet et al.), Phys. Rev. **D19**, 1965 (1979).
- 20. The Production of  $\pi^{\pm}$ ,  $K^{\pm}$ , p and  $\bar{p}$  at Large  $P_T$  in 200 and 300 GeV  $\pi$ -p Collisions, (with N. Giokaris et al.), Phys. Rev. Lett. 44, 511 (1980).
- 21. Comparison of the Production of Charged Hadrons at Large Transverse Momentum in  $\pi$ -p and pp Collisions, (with N. Giokaris et al.), Phys. Rev. Lett. 47, 1690 (1981).
- Atomic-Weight Dependence of Muon-Pair Production in 225 GeV/c π<sup>-</sup>-Nucleus Interactions, (with N. Giokaris et al.), Phys. Rev. D25, 2000 (1982).
- 23. The Inclusive Production of Hadrons at High  $P_T$  in 200 and 300 GeV  $\pi$ -p and  $\pi$ -N Collisions, (with N. Giokaris et al.), Phys. Rev. **D27**, 1001 (1983).
- 24. The Atomic Mass Dependence of the Transverse Momentum Distribution of Massive Muon Pairs from 225 GeV/c p<sup>-</sup>-Nucleus Collisions, (with M. Swartz et al.), Phys. Rev. Lett. 53, 32 (1984).
- Series-Parallel Gradiometers for Monopole Detectors, (with S. Somalwar, J. Incandela, and M. Kuchnir), Nucl. Instr. and Meth., 226, 341 (1984).
- Flux Limit on Cosmic-Ray Magnetic Monopoles from a Large Area Induction Detector, (with M. Campbell et al.), Phys. Rev. Lett. 53, 2067 (1984).
- 27. Production of Massive Muon Pairs in  $\pi^-$ -Nucleus Collisions, (with H. Greenlee et al.), Phys. Rev. Lett. **55**, 1555 (1985).
- The Trigger System for the Collider Detector Facility, (with D. Amidei et al.), EFI-85-81-CHICAGO, Nucl. Sci. Symp. 63 (1985).
- 29. A Simple Fastbus Blower, Nucl. Sci. Symp. 835 (1985).
- 30. CAD Based Standard ECL Fastbus Interface, (with D. Amidei et al.), Nucl. Sci. Symp. 817 (1985).
- First Results from a 1.1-m Diameter Superconducting Monopole Detector, (with J. Incandela and S. Somalwar), Phys. Rev. D34, 2637 (1986).
- The Programmable Analog Circuitry of the CDF Trigger, (with H. Sanders et al.), IEEE Trans. Nucl. Sci. 33, 862-865 (1986).
- Transient-Response Induction Detectors for Magnetic Monopoles: First Operation at 78K, (with S. Somalwar and J. Incandela), Phys. Rev. D37, 2403 (1988).
- A Two Level Fastbus Based Trigger System for CDF, (with D. Amidei et al.), Nucl. Instr. and Meth. A269, 51 (1988).
- The CDF Detector: An Overview, The CDF Collaboration (with F. Abe et al.), Nucl. Instr. and Meth. A271, 387 (1988).
- Measurement of W-Boson Production in 1.8-TeV pp Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 62, 1005 (1989).
- 37. Measurement of the Mass and Width of the  $Z^0$  Boson at the Fermilab Tevatron, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **63**, 720 (1989).
- 38. Two Jet Invariant-Mass Distribution at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with Y. Tsai,<sup>1</sup> F. Abe et al.), Phys. Rev. **D41**, 1722 (1990) as a Rapid Communication.
- 39. A Measurement of D\* Production in Jets from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with G. Redlinger,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **64**, 348 (1990).
- 40. Pseudorapidity Distributions of Charged Particles Produced in  $\bar{p}p$  Interactions at  $\sqrt{s} = 630$  and 1800 GeV, The CDF Collaboration (with R. Snider,<sup>1</sup> F. Abe et al.), Phys. Rev. **D41**, 2330 (1990).

<sup>&</sup>lt;sup>1</sup>graduate student

- 41. Search for the Top Quark in the Reaction  $\bar{p}p \rightarrow \text{Electron} + \text{Jets}$  at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al), Phys. Rev. Lett. **64**, 142 (1990).
- 42. Measurement of the Ratio  $\sigma(W \to e\nu)/\sigma(Z \to ee)$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with P. Derwent,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **64**, 152 (1990).
- Measurement of the W-Boson Mass, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 65, 2243 (1990).
- A Measurement of the W-Boson Mass in 1.8-TeV pp Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D43, 2070 (1991).
- 45. Measurement of  $\sigma \cdot B(W \to e\nu \text{ and } \sigma \cdot B(Z^0 \to e^+e^-) \text{ in } \bar{p}p$  Collisions at  $\sqrt{s} = 1800$  GeV, The CDF Collaboration (with P. Derwent,<sup>1</sup> F. Abe et al.), Phys. Rev. **D44**, 29 (1991).
- 46. Measurement of the  $e^+e^-$  Invariant-Mass Distribution in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with K. Bloom,<sup>2</sup> F. Abe et al.), Phys. Rev. Lett. **67**, 2418 (1991).
- 47. Search for  $W' \to e\nu$  and  $W' \to \mu\nu$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **67**, 2609 (1991).
- 48. Search for New Gauge Bosons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 1463 (1992).
- 49. Measurement of the Ratio  $B(W \to \tau \nu)/B(W \to e\nu)$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, as a Test of Lepton Universality, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 3398 (1992).
- 50. Measurement of the Production and Muonic Decay Rate of W and Z Bosons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **69**, 28 (1992).
- 51. Measurement of the Ratio  $\sigma \cdot B(W \to e\nu)/\sigma \cdot B(Z^0 \to e^+e^-)$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with S. Kopp,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **73**, 220 (1994).
- 52. Evidence for Top Quark Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with J. Romano,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **73**, 225 (1994).
- 53. Evidence for Top Quark Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with J. Romano,<sup>1</sup> F. Abe et al.)Phys. Rev. **D50**, 2966 (1994).
- 54. Search for the Top Quark Decaying to a Charged Higgs Boson in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **73**, 2667 (1994).
- 55. Measurement of Drell-Yan Electron and Muon Pair Differential Cross Sections in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with K. Bloom,<sup>1</sup> F. Abe et al.), Phys. Rev. **D49**, R1 (1994).
- Direct Measurement of the W Boson Width, The CDF Collaboration (with S. Kopp,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. 74, 341 (1995).
- 57. Search for New Gauge Bosons Decaying into Dielectrons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D51**, R949 (1995).
- 58. Observation of Top Quark Production in  $\bar{p}p$  Collisions with the Collider Detector at Fermilab, The CDF Collaboration (with J. Romano,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **74**, 2626 (1995).
- 59. Search for Charged Bosons Heavier than the W Boson in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1800$  GeV, The CDF Collaboration (with S. Kopp,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **74**, 2900 (1995).
- Measurement of the W Boson Mass, The CDF Collaboration (with D. Saltzberg,<sup>1</sup> F. Abe et al.), Phys. Rev. D52, 4784 (1995).
- Measurement of the W Boson Mass, The CDF Collaboration (with D. Saltzberg,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. 75, 11 (1995).

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- 62. Measurement of the Ratio  $\sigma B(\bar{p}p \to W \to e\nu)/\sigma B(\bar{p}p \to Z^0 \to ee)$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with S. Kopp,<sup>1</sup> F. Abe et al.), Phys. Rev. **D52**, 2624 (1995).
- 63. Measurement of  $\sigma B(W \to e\nu)$  and  $\sigma B(Z^0 \to e^+e^-)$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with S. Kopp,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **76**, 3070 (1996).
- 64. Forward-Backward Charge Asymmetry of Electron Pairs Above the Z<sup>0</sup> Pole, The CDF Collaboration (with Jeff Berryhill,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **77**, 2616 (1996).
- 65. The  $\mu\tau$  and  $e\tau$  Decays of Top Quark Pairs Produced in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with M. Hohlmann,<sup>1</sup> F. Abe et al.), Phys. Rev. Lett. **79**, 3585 (1997).
- 66. Search for New Particles Decaying into  $B\bar{B}$  Produced in Association with W Bosons Decaying into  $E_{\eta}$  or  $\mu_{\eta}$  at the Tevatron, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **79**, 3819 (1997).
- 67. Search for First Generation Leptoquark Pair Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **79**, 4327 (1997).
- 68. Measurement of the  $t\bar{t}$  Production Cross-Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **80**, 2773 (1998).
- Measurement of the Top Quark Mass, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 80, 2767 (1998).
- 70. Measurement of the Top Quark Mass and  $t\bar{t}$  Production Cross-Section from Dilepton Events at the Collider Detector at Fermilab, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **80**, 2779 (1998).
- 71. Searches for New Physics in Diphoton Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **81**, 1791-1796 (1998).
- 72. The Search for Supersymmetry at the Tevatron Collider, (with M. Carena, (Fermilab), R.L. Culbertson (UC), S. Eno (Maryland), and S. Mrenna (ANL)), hep-ex/9712022, to appear in the book "Perspectives in Supersymmetry," edited by G.L. Kane, World Scientific.
- 73. The Search for Supersymmetry at the Tevatron Collider, (with M. Carena et al.), to be published in Reviews of Modern Physics.
- 74. Search for Higgs Bosons Produced in Association with a Vector Boson in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **81**, 5748-5753 (1998).
- Measurement of the Top Quark Mass with the Collider Detector at Fermilab, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 82, 271-276 (1999), Erratum-ibid. 82, 2808-2809 (1999).
- 76. Search for a Technicolor  $\Omega_T$  Particle in Events with a Photon and a B Quark Jet at Fermilab, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 83, 3124-3129 (1999).
- 77. Searches for New Physics in Diphoton Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D59**, 092002 (1999).
- 78. 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, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D62**, 12004 (2000).
- 79. Direct Measurement of the W Boson Width in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV; The CDF Collaboration with T. Affolder et al.) Phys. Rev. Lett. 85, 3347 (2000)
- 80. Search for the W' Boson via the Decay Mode  $W' \to \mu\nu_{\mu}$  in 1.8 TeV pbarp Collisions, (with F. Abe, et al.) Phys. Rev. Lett. 84, 5716 (2000).
- 81. Search for Narrow Diphoton Resonances and for  $\gamma\gamma + W/Z$  Signatures in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV; (with A. Castro, P. Wilson, and T. Affolder, et al.; CDF collaboration) Phys. Rev. **D64** (2001) 092002.

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- 82. Searches for New Physics in Events with a Photon and b-quark Jet at CDF (with R. Culbertson and the CDF Collaboration); FERMILAB-PUB-01-097-E, Jun 2001. 40pp.; Phys. Rev. **D65**
- 83. Search for New Heavy Particles in the WZ Final State in Proton Anti-Proton Collisions at  $\sqrt{s} = 1.8$  TeV (with D. Toback and C. Battle and the CDF Collaboration); FERMILAB-PUB-01-219-E, Aug 2001, Phys. Rev. Lett. **88**(2002) 071806
- 84. Searches for New Physics in Photon-Lepton Events in Proton-Antiproton Collisions at √s = 1.8 TeV (with J. Berryhill and the CDF Collaboration) FERMILAB-PUB-01-298-E, EFI-2001-45, Oct 2001. 76pp. Phys. Rev. D66 (2002) 012004.
- 85. Limits on Extra Dimensions and New Particle Production in the Photon and Missing Energy Signature in  $p\bar{p}$  Collisions at roots = 1.8 TeV at CDF (with P. Onyisi and the CDF Collaboration); EFI preprint EFI-01-53; Phys. Rev. Lett. **89**(2002) 281801
- 86. Search for New Physics in Photon-Lepton Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV (with J. Berryhill and the CDF Collaboration); Phys. Rev. Lett. **89**, 041802 (2002).
- Initial Experience with the CDF SVT trigger, NIM, 501, 1:21, March 2003, P. 201-206 (with B. Ashmanskas, A. Barchiesi, A. Bardi, M. Bari, M. Baumgart, Stefano Belforte, J. Berryhill, M. Bogdan, R. Carosi, A. Cerri et al.).
- 88. The Ratio of W + N jets To  $Z^0/\gamma^* + N$  jets Versus N As a Precision Test of the Standard Model, (with Erin Abouzaid) Phys. Rev. D **68**, 033014 (2003) [arXiv:hep-ph/0303088].
- "Virtual Prototype Method Used in Design of Electronic Circuitry for CDF,"; with W. Ashmanskas, M. Bogdan, T. Liu, H. Sanders and M. Shochet; Nucl. Instrum. Meth. A 518, 491 (2004).
- 90. Picosecond Time-of-Flight Measurement for Colliders Using Cherenkov Light; with T. Credo, H. Sanders, R. Schroll, and F. Tang; proceedings of the IEEE, Rome, Italy, Oct. 2004; Nuclear Science Symposium Conference Record, 2004 IEEE, Volume: 1 Date: 16-22 Oct. 2004
- "A 96-channel FPGA-based Time-to-Digital Converter," with M. Bogdan et al., Nucl. Instrum. Meth. A 554, 444 (2005) [arXiv:physics/0502062].
- 92. "Search for Anomalous Production of Diphoton Events With Missing Transverse Energy at CDF and Limits on Gauge-mediated Supersymmetry-breaking Models,"; with D. Acosta *et al.* [CDF Collaboration]; Phys. Rev. D 71, 031104 (2005) [arXiv:hep-ex/0410053].
- 93. "The Timing System for the CDF Electromagnetic Calorimeters"; with M. Goncharov, D. Toback, et al.; FERMILAB-PUB-05-543-E, Dec 2005. Nucl.Instrum.Meth.A565:538-542,2006 [Archive: physics/0512171]
- 94. "MCP-PMT Anode Development for Psec-Resolution Time-of-flight Detectors", with Timothy Credo, Karen Byrum, Gary Drake, Harold Sanders, and Fukun Tang; submitted to the IEEE 2006 Nuclear Science Symposium, Sand Diego (submitted May, 2006)
- 95. "Development of a Picosecond-Resolution TDC for Large Scale Time-of-Flight Systems", with Timothy Credo, Karen Byrum, Gary Drake, Harold Sanders, and Fukun Tang; submitted to the IEEE 2006 Nuclear Science Symposium, Sand Diego (submitted May, 2006)
- 96. "Development of a Readout System for Large Scale Time-of-Flight Systems with Picosecond Resolution", with Timothy Credo,, Karen Byrum, Gary Drake, Harold Sanders, Fukun Tang, and Jakob Van Santen; submitted to the IEEE 2006 Nuclear Science Symposium, Sand Diego (submitted May, 2006)
- 97. "Search for New Physics in Photon-Lepton+X Events with 305 pb<sup>-1</sup> of  $\bar{p}p$  Collisions at  $\sqrt{s}= 1.96$  TeV", with A. Loginov *et al.* [CDF Collaboration]; Phys. Rev. Lett. 97:031801,2006; hep-ex/0605097
- 98. "Search for New Physics in Lepton + Photon + X Events with 929  $pb^{-1}$  of ppbar Collisions at  $\sqrt{s} = 1.96TeV''$

A.Abulencia et al. (CDF Collaboration); Phys. Rev. D 75, 112001 (2007) Archive: hep-ex/0702029

- 99. "Development of a Front-End Electronics for Pico-second Resolution."; G. Drake, K. Karen (Argonne), Henry J. Frisch, H. Sanders, f. Tang (Chicago U., EFI). RT2007-PS2B002, Apr 2007. 15th IEEE Real Time Conference 2007 (RT 07), Batavia, Illinois, 29 Apr - 4 May 2007.
- 100. "Transmission-Line Readout with Good Time and Space Resolutions for a Planicon MCP-PMT";
  Fukun Tang et al.;
  Poster presented at the Topical Workshop on Electronics for Particle Physics (TWEPP), Prague, Czech Republic, Sept., 2007.
- 101. "Search for New Physics in Lepton + Photon + X Events With 929 pb\*\*(-1) of p anti-p Collisions at s\*\*(1/2) = 1.96-TeV.";
  The CDF Run II Collaboration (A. Abulencia et al.).
  Phys.Rev.D75:112001,2007. Archive: hep-ex/0702029
- 102. "The Timing Properties of a Picosecond MCP-PMT Measured at the Fermilab MTEST Test Beam" Gary Drake et al.; Submitted to IEEE08, October, 2008; Dresden Germany
- 103. "New Developments in Fast-Sampling Analog Readout of MCP-Based Large-Area Picosecond Time -of-Flight Detectors"
  Fukun Tang et al.;
  Submitted to IEEE08, October, 2008; Dresden Germany
- 104. "Results of a Search for Heavy, Right-handed Quarks in Dileptons+X"; with Collin Wolfe and the CDF Run II Collaboration (A. Abulencia et al.). To be submitted to Phys. Rev. D. (in the process of internal CDF review as of Dec. 2007, but available on request.).
- 105. "Pico-second Resolution Timing Measurements", with Jean-Francois Genat, Gary Varner, and Fukun Tang. Oct 2008. 18pp. Published in Nucl.Instrum.Meth.A607:387-393,2009.
  e-Print: arXiv:0810.5590 [physics.ins-det]
- 106. "Searching the Inclusive ℓγE<sub>t</sub> + b quark Signature for Radiative Top Quark Decay and Non-standardmodel Processes", with I. Shreyber, A. Loginov, et al. [CDF Collaboration]; Physical Review D (Vol.80, No.1):1 July 2009 URL: http://link.aps.org/abstract/PRD/v80/e011102
- 107. "Search for the Neutral Current Top Quark Decay t → Zc Using Ratios of Z+4 Jets to W+4 Jets Production",
  with A. Paramonov et al. [CDF Collaboration];
  Phys. Rev. D80,052001 (Aug., 2009);
  eprint: arXiv:0905.0277
- 108. "Transmission-line readout with good time and space resolutions for Planacon MCP-PMTs"; with F. Tang, J. Anderson, K. Byrum, G. Drake, C. Ertley, J.-F. Genat, E. May. CERN-2008-008, 'Naxos 2008, Electronics for Particle Physics' p. 579
- 109. "Level-3 Calorimetric Resolution available for the Level-1 and Level-2 CDF Triggers"; Anadi Canepa et al. (CDF Collaboration); FERMILAB-CONF-08-655-PPD, PIC-2008-0040, Jun 2008; Proceedings of 28th Physics in Collision (PIC 2008), Perugia, Italy, 25-28 Jun 2008, p. 40.
- 110. "Development of Picosecond-resolution Large-area Time-of-flight Systems"; with C. Ertley, J. Anderson, K. Byrum, G. Drake, Henry Frisch, J.-F. Genat, H. Sanders, F. Tang; IEEE Trans.Nucl.Sci.56:1042,2009.

- 111. "A Multi-Threshold Sampling Method for TOF PET Signal Processing", with H. Kim, C.-M. Kao, Q. Xie, C.-T. Chen, L. Zhou, F. Tang, W.W. Moses, W.S. Choong; Nuclear Instrument and Methods in Physics Research, A, 602, p. 618, 2009.
- 112. "Continuous Scintillator Slab with Micro-channel plate PMT for PET", with H. Kim, C.-M. Kao, W.W. Moses, W.-S. Choong, J.-F. Genat, F. Tang, and C.-T. Chen, Conference Record of the 2009 IEEE Nuclear Science Symposium and Medical Imaging, Orlando Fla., Oct. 2009; pp. 2553-2556
- 113. "A Design of a PET Detector using Micro-channel plate PMTs with Transmission Line Readout", with H. Kim, C.-M. Kao, W.W. Moses, W.-S. Choong, J.-F. Genat, F. Tang, and C.-T. Chen ; Conference Record of the 2009 IEEE Nuclear Science Symposium and Medical Imaging, Orlando Fla., Oct. 2009; pp. 3106-3110.
- 114. "A Design of a PET Detector Using Micro-Channel Plate Photo-Multipliers with Transmission-Line Readout"; with H. Kim, C.-T. Chen J.-F. Genat, F. Tang, W.W. Moses, W. S. Choong, and C.-M. Kao. to be published in Nucl. Inst. and Meth. A.
- 115. "A Prototype PET Detector Module using Micro-channel Plate Photomultiplier Tube with Waveform Sampling" with H. Kim, C-M Kao, C-T Chen, J.-F. Genat, and Fukun Tang; to be published in Proceedings of the IEEE, Knoxville Tenn., Oct. 30, 2010
- 116. "Present Limits on the Precision of SM Predictions for Jet Energies", with Alexander Paramonov, Florencia Canelli, Monica D'Onofrio, and Stephen Mrenna; to be published in Nucl. Inst. and Meth. A; June 3, 2010
- 117. "Search for Light New Particles via Signatures with Soft Leptons in Electroweak Final States", with Scott Wilbur, Dan Krop, Carla Grosso-Pilcher (CDF Collaboration) in preparation.
- 118. "A Measurement Top Pair + Photon Cross-section in Pbar-P Collisions at 1.96 TeV", with Benjamin Auerbach, Andrei Loginov, Irina Shreyber, and Paul Tipton (CDF Collaboration) in preparation.

## 2 Other Publications:

- 1. Transverse Momentum Distributions of Charged Particles Produced in  $\bar{p}p$  Collisions at  $\sqrt{s} = 630$  and 1800 GeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **61**, 1819 (1988).
- 2. Measurement of the Inclusive Jet Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **62**, 613 (1989).
- Limits on the Masses of Supersymmetric Particles from 1.8-TeV pp̄ Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 62, 1825 (1989).
- 4. Dijet Angular Distributions from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **62**, 3020 (1989).
- Search for Heavy Stable Charged Particles in 1.8-TeV pp̄ Collisions at the Fermilab Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 63, 1447 (1989).
- 6.  $K_S^0$  Production in  $\bar{p}p$  Interactions at  $\sqrt{s} = 630$  and 1800 GeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D40**, 3791 (1989).
- 7. Two-Jet Differential Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **64**, 157 (1990).

- Search for New Heavy Quarks in Electron-Muon Events at the Fermilab Tevatron Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 64, 147 (1990).
- Search for a Light Higgs Boson at the Fermilab Tevatron Proton-Antiproton Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D41, 1717 (1990).
- 10. Jet-Fragmentation Properties in  $\bar{p}p$  Collisions  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **65**, 968 (1990).
- 11. Measurement of the W-Boson  $P_T$  Distribution in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **66**, 2951 (1991).
- 12. Determination of  $sin^2\bar{\theta}_w$  from the Forward-Backward Asymmetry in  $p\bar{p} \to Z^0 X \to e^+e^- X$  Interactions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **67**, 1502 (1991).
- 13. Measurement of the Z-Boson  $p_T$  Distribution in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 67, 2937 (1991).
- 14. Measurement of  $B^0 \bar{B}^0$  Mixing at the Fermilab Tevatron Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **67**, 3351 (1991).
- 15. Inclusive Jet Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 1104 (1991).
- 16. Top Quark Search in the Electron + Jets Channel in Proton-Antiproton Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D43**, 664 (1991).
- 17. Measurement of the Isolated Prompt Photon Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 2734 (1992).
- 18. Properties of Events with Large Total Transverse Energy Produced in Proton-Antiproton Collisions at  $\sqrt{s}$  = 1.8 TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D45**, 2249 (1992).
- 19. Topology of Three-Jet Events in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D45**, 1448 (1992).
- 20. Lepton Asymmetry in W-Boson Decays from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 1458 (1992).
- 21. Measurement of the B-Meson and b-Quark Cross Sections at  $\sqrt{s} = 1.8$  TeV Using the Exclusive Decay  $B^{\pm} \rightarrow J/\psi K^{\pm}$  The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 3403 (1992).
- 22. Search for Squarks and Gluinos from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **69**, 3439 (1992).
- 23. Limit on the Rare Decay  $W^{\pm} \to \gamma \pi^{\pm}$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **69**, 2160 (1992).
- 24. Dijet Angular Distribution in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **69**, 2896 (1992).
- 25. Inclusive  $J/\psi$ ,  $\psi(2S)$  and b-quark Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **69**, 3704 (1992).
- Limits on the Production of Massive Stable Charged Particles, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D46, R1889 (1992).
- 27. Lower Limit on the Top Quark Mass from Events with Two Leptons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **68**, 447 (1992).
- 28. Limit on the Top-Quark Mass in Proton-Antiproton Collisions at  $\sqrt{s} = 1800$  GeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D45**, 3921 (1992).
- 29. Measurement of Jet Shapes in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **70**, 713 (1993).

- 30. Comparison of Jet Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 546$  and 1800 GeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **70**, 1376 (1993).
- 31. Measurement of the Cross Section for Production of Two Isolated Prompt Photons in  $p\bar{p}$  Collisions at  $\sqrt{s}$  = 1.8 TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **70**, 2232 (1993).
- 32. Search for  $\Lambda_b \to J/\psi \Lambda^0$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D47**, R2639 (1993).
- 33. Study of Four-Jet Events and Evidence for Double Parton Interactions in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D47**, 4857 (1993).
- 34. Measurement of Jet Multiplicity in W Events Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **70**, 4042 (1993).
- 35. Measurement of the Bottom-Quark Production Cross Section Using Semileptonic Decay Electrons in  $p\bar{p}$ Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 500 (1993).
- 36. Center-of-Mass Angular Distribution of Prompt Photons Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 679 (1993).
- 37. Measurement of the Dijet Mass Distribution in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D48**, 998 (1993).
- 38. Observation of the Decay  $B_s^0 \to J/\psi \phi$  in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 1685 (1993).
- 39. Prompt Photon Cross Section Measurement in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D48**, 2298, (1993).
- 40. Measurement of Bottom Quark Production in 1.8 TeV  $p\bar{p}$  Collisions Using Muons from b-Quark Decays, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 2396 (1993).
- 41. Inclusive  $\chi_c$  and b- Quark Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 2537 (1993).
- 42. Search for Quark Compositeness, Axigluons, and Heavy Particles Using the Dijet Invariant Mass Spectrum Observed in  $\bar{p}p$  Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 2542 (1993).
- 43. Search for First-Generation Leptoquarks in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D48**, R3939 (1993).
- 44. Measurement of the Average Lifetime of B Hadrons Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **71**, 3421 (1993).
- 45. Search for the Top Quark Decaying to a Charged Higgs Boson in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **72**, 1977 (1994).
- Measurement of the B<sup>+</sup> and B<sup>0</sup> Meson Lifetimes, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 72, 3456 (1994).
- 47. W Boson + Jet Angular Distribution in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **73**, 2296 (1994).
- 48. Precision Measurement of the Prompt Photon Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **73**, 2662 (1994).
- 49. Measurement of the B Meson and b Quark Cross Sections at  $\sqrt{s} = 1.8$  TeV Using the Exclusive Decay  $B^0 \rightarrow J/\varphi K^*(892)^0$ , The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D50**, 4252 (1994).
- 50. Evidence for Color Coherence in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D50**, 5562 (1994).
- 51. Charge Asymmetry in W-Boson Decays Produced in  $p\bar{p}$  at 1.8 TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **74**, 850 (1995).

- 52. Observation of Rapidity Gaps in  $\bar{p}p$  Collisions at 1.8 TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **74**, 855 (1995).
- 53. Measurement of W-Photon Couplings in  $p \bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **74**, 1936 (1995).
- 54. Limits on Z-Photon Couplings from  $p \bar{p}$  Interactions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **74**, 1941 (1995).
- 55. Search for New Particles Decaying to Dijets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **74**, 3538 (1995).
- 56. Kinematic Evidence for Top Quark Pair Production in W + Multijet Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D51**, 4623 (1995).
- 57. Properties of High-Mass Multijet Events at the Fermilab Proton-Antiproton Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **75**, 608 (1995).
- 58. Search for Squarks and Gluinos via Radiative Decays of Neutralinos in Proton-Antiproton Collisions at  $\sqrt{s}$  = 1.8 TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **75**, 613 (1995).
- 59. Search for Second Generation Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **75**, 1012 (1995).
- 60. Limits on WWZ and WW $\gamma$  Couplings from WW and WZ Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **75**, 1017 (1995).
- Identification of Top Quarks Using Kinematic Variables, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D52, R2605 (1995).
- 62. Study of  $t\bar{t}$  Production in  $p\bar{p}$  Collisions Using Total Transverse Energy, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **75**, 3997 (1995).
- 63. Search for Gluino and Squark Cascade Decays at the Fermilab Tevatron Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 76, 2006 (1995).
- 64. Search for the Rare Decay  $W^{\pm} \rightarrow \pi^{\pm} + \gamma$ , The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **76**, 2852 (1996).
- 65. Inclusive Jet Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 77, 438 (1996).
- Properties of Jets in Z Boson Events from 1.8 TeV pp Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 77, 448 (1996).
- 67. Search for Chargino-Neutralino Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **76**, 4307 (1996).
- Search for Charged Higgs Boson Decays of the Top Quark Using Hadronic τ Decays, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D54, 735 (1996).
- Further Properties of High-Mass Multijet Events at the Fermilab Proton-Antiproton Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D54, 4221 (1996).
- 70. Measurement of the  $\gamma + D^{*\pm}$  Cross Section in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **77**, 5005 (1996).
- Observation of Diffractive W-Boson Production at the Fermilab Tevatron, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 78, 2698 (1997).
- 72. Search for New Particles Decaying to Dijets at CDF, Phys. Rev. D55, R5263 (1997) (with F. Abe et al.).
- Observation of Diffractive W-Boson Production at the Fermilab Tevatron, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 78, 2698 (1997).

- 74. Search for Charged Higgs Boson Decays of the Top Quark Using Hadronic Decays of the Tau Lepton, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 79, 357 (1997).
- 75. Measurement of Dijet Angular Distributions by the Collider Detector at Fermilab, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 77, 5336 (1997).
- 76. Search for Third Generation Leptoquarks in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **78**, 2906 (1997). F. Abe et al.).
- Search for Gluinos and Squarks at the Fermilab Tevatron Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D56, R1357 (1997).
- 78. Measurement of Double Parton Scattering in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **79**, 584 (1997).
- Properties of Six-Jet Events with Large Six-Jet Mass at the Fermilab Proton-Antiproton Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. D56, 2532 (1997).
- 80. Evidence for  $W^+W^-$  Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  Tev, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **78**, 4536 (1997).
- 81. Double Parton Scattering in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  Tev, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D56**, 3811 (1997).
- Properties of Jets in W Bosons Events from 1.8 TeV pp Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 79, 4760 (1997).
- 83. Search for New Gauge Bosons Decaying into Dileptons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **79**, 2192 (1997).
- Limits on Quark-Lepton Compositeness Scales from Dileptons Produced in 1.8 TeV pp̄ Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 79, 2198 (1997).
- 85. Properties of Photon Plus Two-Jet Events in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D57**, 67 (1998).
- Dijet Production by Color-Singlet Exchange at the Fermilab Tevatron, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 80, 1156 (1998).
- 87. Measurement of the Differential Cross-Section for Events with Large Total Transverse Energy in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **80**, 3461 (1998).
- 88. Search for Flavor-Changing Neutral Current Decays of the Top Quark in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **80**, 2525 (1998).
- Observation of Hadronic W Decays in tt Events with the Collider Detector at Fermilab, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 80, 5720-5725 (1998).
- 90. The Jet Pseudorapidity Distribution in Direct Photon Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D57**, 1359 (1998).
- Search for Chargino-Neutralino Associated Production at the Fermilab Tevatron Collider, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 80, 5275-5280 (1998).
- 92. Search for the Rare Decay  $W^{\pm} \to \pi^{\pm} + \gamma$  in Proton Anti-Proton Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **D58**, 031101 (1998).
- 93. Search for the Rare Decay  $W^{\pm} \to D^{\pm}(S)\gamma$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration, (with F. Abe et al.), Phys. Rev. **D58**, 091101 (1998).
- 94. Measurement of the  $\sigma(W+ \ge 1Jet)/\sigma(W)$  Cross-Section Ratio from  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. **81**, 1367-1372 (1998).
- 95. A Measurement of the Lepton Charge Asymmetry in W Boson Decays Produced in pp̄ Collisions, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 81, 5754-5759 (1998).

- 96. Search for Long Lived Parents of  $Z^0$  Bosons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D58**, 051102 (1998).
- 97. Search for Third Generation Leptoquarks from Technicolor Models in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 82, 3206 (1999).
- 98. Search for R Parity Violating Supersymmetry Using Like Sign Dielectrons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. Lett. 83, 2133-2138 (1999).
- 99. Measurement of  $Z^0$  and Drell-Yan Production Cross-Section Using Dimuons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D59**, 052002(1999).
- 100. Kinematics of  $t\bar{t}$  Events at CDF, The CDF Collaboration (with F. Abe et al.), Phys. Rev. **D59**, 092001 (1999).
- 101. Measurement of the Top Quark Mass with the Collider Detector at Fermilab; (with the CDF Collaboration); Phys.Rev.**D63**, 032003(2001).
- 102. Cross-section and heavy quark composition of gamma + muon events produced in p anti-p collisions; (Koichi Kurino and Stephen Kuhlmann, lead authors: The CDF Collaboration); Phys.Rev.**D65**, 012003(2001).
- 103. Search for Gluinos and Scalar Quarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV using the Missing Energy plus Multijets Signature; (M. Spiropulu, lead author: The CDF Collaboration); EFI-01-22, FERMILAB-PUB-01-084-E;Phys. Rev. Lett. 88, 041801(2002).
- 104. Comparison of the Direct Photon Cross Sections at  $\sqrt{s}=1.8$  TeV and  $\sqrt{s}=0.63$  GeV; (Dana Partos and Stephen Kuhlmann, lead authors: The CDF Collaboration); Submitted to Phys. Rev. Lett.
- 105. Measurement of the Mass Difference  $m(D_s^+) m(D^+)$ ; (Bill Ashmanskas and Paul Harr, lead authors: The CDF II Collaboration); Phys.Rev.D68:072004,2003
- 106. Search for the Flavor Changing Neutral Current Decay  $D^0 \rightarrow \mu^+\mu^-$  in p anti-p Collisions at  $s^{**}(1/2) = 1.96$ -TeV. CDF Collaboration (D. Acosta et al.); Phys.Rev.D68:091101,2003
- 107. "Combination of CDF and D0 Results on W Boson Mass and Width,"; with V. M. Abazov et al. [CDF Collaboration]; Phys. Rev. D 70, 092008 (2004) [arXiv:hep-ex/0311039].
- 108. Search for  $B_S^0 \to \mu^+\mu^-$  and  $B_D^0 \to \mu^+\mu^-$  Decays in p anti-p Collisions at s<sup>\*\*</sup>(1/2) = 1.96-TeV; CDF Collaboration (D. Acosta et al.); Phys.Rev.Lett.93:032001,2004
- 109. Measurement of the t anti-t Production Cross Section in p anti-p Collisions at s<sup>\*\*</sup>(1/2) = 1.96-TeV Using Dilepton Events; CDF Collaboration (D. Acosta et al.); Phys.Rev.Lett.93:142001,2004
- 110. "Search for Higgs Bosons Decaying Into b anti-b and Produced In Association With a Vector Boson in proton antiproton Collisions at  $s^{**}(1/2) = 1.8$ -TeV"; D. Acosta *et al.* [CDF Collaboration]; Phys. Rev. Lett. **95**, 051801 (2005)
- 111. "Measurement of the Forward-backward Charge Asymmetry of Electron Positron Pairs in p anti-p Collisions at  $s^{**}(1/2) = 1.96$ -TeV,"; with D. Acosta *et al.* [CDF Collaboration]; Phys. Rev. D **71**, 052002 (2005) [arXiv:hep-ex/0411059].
- 112. "First Measurements of Inclusive W and Z Cross Sections From Run II of the Tevatron Collider,"; with D. Acosta *et al.* [CDF II Collaboration]; Phys. Rev. Lett. **94**, 091803 (2005) [arXiv:hep-ex/0406078].
- 113. "Measurement of the t anti-t Production Cross Section in p anti-p Collisions at s<sup>\*\*</sup>(1/2) = 1.96-TeV Using Kinematic Fitting of b-tagged Lepton + jet Events"; [CDF-II Collaboration] (D. Acosta et al.); Phys.Rev.D71:072005,2005
- 114. "Measurement of W gamma and Z gamma Production in p anti-p Collisions at  $s^{**}(1/2) = 1.96$ -TeV"; [CDF II Collaboration (D. Acosta et al.)]; Phys.Rev.Lett.94:041803,2005
- 115. "Search for Excited and Exotic Electrons in the e gamma Decay Channel in p anti-p Collisions at  $s^{**}(1/2)$ = 1.96-TeV"; [CDF Collaboration (D. Acosta et al.)]; Phys.Rev.Lett.94:101802,2005

- 116. "Measurement of the t anti-t Production Cross Section in p anti-p Collisions at  $s^{**}(1/2) = 1.96$ -TeV Using Lepton + jets Events with Secondary Vertex b-tagging"; [CDF Collaboration (D. Acosta et al.)]; Phys.Rev.D71:052003,2005
- 117. "Measurement of the Forward-backward Charge Asymmetry of Electron-positron Pairs in anti-p p Collisions at s\*\*(1/2) = 1.96-TeV"; [CDF Collaboration (D. Acosta et al.)]; Phys.Rev.D71:052002,2005
- 118. "Search for Higgs Bosons Decaying into b anti-b and Produced in Association with a Vector Boson in p anti-p Collisions at 1.8-TeV"; [CDF Collaboration (D. Acosta et al.)]; Phys.Rev.Lett.95:051801,2005
- 119. "Search for W and Z Bosons in the Reaction anti-p  $p \rightarrow 2$  jets + gamma at  $s^{**}(1/2) = 1.8$ -TeV"; [CDF Collaboration (D. Acosta et al.)]; Phys.Rev.D73:012001,2006
- 120. "The CDF Level 2 Trigger Upgrade", K. Anikeev/ et al.; IEEE Trans.Nucl.Sci.53:653-658,2006
- 121. "Observation of B0(s) anti-B0(s) Oscillations"; CDF Collaboration (A. Abulencia et al.); Phys.Rev.Lett.97:242003, Archive: hep-ex/0609040
- 122. "Measurement of the B0(s) anti-B0(s) Oscillation Frequency"; CDF Collaboration (A. Abulencia et al.); Phys.Rev.Lett.97:062003,2006; Archive: hep-ex/0606027
- 123. End of 'other publications'- see Primary publications above

## 3 US Patents

- LARGE AREA, PICO-SECOND RESOLUTION, TIME OF FLIGHT DETECTORS; US Patent US 2007/0187596 A1; Aug 16, 2007 Inventors: Henry J. Frisch, Harold Sanders, Fukun Tang, Tim Credo
- "ANODIZED ALUMINUM OXIDE WITH ATOMIC LAYER DEPOSITION AS MICRO-CHANNEL PLATE DETECTOR", Jeffrey Elam, Hsien-Hau Wang, Michael Pellin, Karen Byrum, and Henry Frisch, Inventors. Provisional application ANL-IN-09-017 filed.
- 3. USE OF FLAT PANEL MICROCHANNEL PHOTOMULTIPLIERS IN SAMPLING CALORIMETERS WITH TIMING; Chin-Tu Chen, Woon-Seng Choong, Henry J. Frisch, Jean-Francois Genat, Chien-Min Kao, Heejong Kim, and Fukun Tang, Inventors; Provisional application ANL-IN-09-017 filed.