

CURRICULUM VITAE

Pekka K. Sinervo

A. Biographical Information

1. Personal

Personal Data:

Pekka K. Sinervo
Born May 24, 1958
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Home Address:

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2. Degrees

Degree	:	Ph.D. Elementary Particle Physics
Thesis	:	Study of Strange Meson Spectrum as Observed in the Reaction $K^-p \rightarrow K^0\pi^+\pi^-n$ at 11 GeV/c
Advisor	:	D. W. G. S. Leith
Institution	:	Stanford University
Date	:	May 1986
Degree	:	B.Sc. (4 year) Mathematics and Physics
Institution	:	University of Toronto
Date	:	May 1980

3. Employment

- Senior Vice-President, Research, Canadian Institute for Advanced Research (May 2009 - present)
- Rosi and Max Varon Visiting Professor, Weizmann Institute of Science, Rehovot, Israel (Sep 2008 - Apr 2009)
- Vice-Provost, First-Entry Programs, University of Toronto (Nov 2006 - Feb 2008)
- Dean, Faculty of Arts and Science, University of Toronto (Jan 2004 - Feb 2008)

- Interim Dean, Faculty of Arts and Science, University of Toronto (May 2003 - Dec 2003)
- Vice-Dean, Academic, Faculty of Arts and Science, University of Toronto (Jan 2003 - Apr 2003)
- Vice-Dean, Graduate Education and Research, Faculty of Arts and Science, University of Toronto (Sep 2000 - Dec 2002)
- Chair, Department of Physics, University of Toronto (Jul 1997 - Aug 2000)
- Visiting Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA (Jan 1997 - Jun 1997)
- Professor, Department of Physics, University of Toronto (Jul 1995 - present)
- Associate Professor of Physics, Department of Physics, University of Toronto (Jul 1990 - Jun 1995) (tenure awarded in May 1993)
- Visiting Scientist, Fermi National Accelerator Laboratory, Batavia, IL, Feb 1994 - Jul 1994)
- Assistant Professor, Department of Physics, University of Pennsylvania (Jul 1988 - Jun 1990)
- Postdoctoral Researcher, Department of Physics, University of Pennsylvania (Jun 1986 - Jun 1988)

4. Honours

Feb 2012	Fellow, American Association for the Advancement of Science
Jan 2008	Acenberg Award, Rotman Research Institute
Jun 2007	Patron of the Society, Canadian Astronomical Society
Jul 2004	Senior Fellow, Massey College, University of Toronto
May 2004	Fellow, American Physical Society
Nov 1999	Fellow, Royal Society of Canada
Nov 1995	Rutherford Memorial Medal in Physics, Royal Society of Canada
Feb 1995	Outstanding Teaching Award, Faculty of Arts and Science, University of Toronto
Jun 1980	Reuben Wells Leonard Scholarship for the Physical Sciences University College, University of Toronto
Mar 1980	NSERC Postgraduate Scholarship (renewed 1982) Natural Sciences and Engineering Research Council
Mar 1980	NSERC 1967 Science Scholarship (declined) Natural Sciences and Engineering Research Council
Mar 1979	Harry M. Boxen Memorial Scholarship University College, University of Toronto
Apr 1976	C.L. Burton Scholarship

5. Professional Affiliations

- Member, Canadian Association of Physicists
- Member, Institute of Particle Physics
- Member and Fellow, American Association for the Advancement of Science
- Member and Fellow, American Physical Society
- Fellow, Royal Society of Canada

B. Academic History

6. a. Research Activities

My primary interests are the study of high-energy hadron collisions produced at the very highest energies possible. My research focuses on the ATLAS experiment at the CERN Large Hadron Collider (LHC) in Geneva, Switzerland, where we are studying 7 and 8 TeV proton-proton collisions. I am also completing studies of 2 TeV proton-antiproton collisions at the Collider Detector at Fermilab (CDF), a facility designed, constructed and operated by a collaboration of physicists from 40 institutions. I am particularly interested in studies of the top quark, the last of the expected fundamental building blocks predicted by the current “Standard Model” of high energy physics to be discovered. Having published conclusive evidence of its existence in 1995, I am still involved in top quark studies using data collected by the ATLAS experiment. My students and I have specialized in developing techniques for making innovative measurements of top quark properties. I am also involved in the development of advanced statistical techniques applied to the analysis of particle physics data.

I have held various leadership and management roles. I was head of the Canadian CDF group from its inception in 1990 to 1999 and was one of the two coordinators of the CDF Heavy Flavour group for over two years between 1990 and 1992. This internal group was the focus of all of the collaborations research in heavy quark physics (top quark searches and bottom quark studies). I also was the head of the CDF Offline Group from 1993 to 1995. During that time, I was responsible for all software development, data processing and central computing facilities within the collaboration. I have served as member or chair of approximately 35 internal review committees in CDF over the last 25 years.

My secondary research activity is the development of advanced detectors and computational systems for the CDF and ATLAS experiments. My group designed parts of the data collection systems for the SDC detector, a device that was intended to search for the Higgs boson at the Superconducting Super Collider (SSC). I am now collaborating on the development of a Grid

computing model for the ATLAS experiment that is proposed to perform a similar search at the Large Hadron Collider (LHC). My group designed a system of electronics that would allow the CDF detector to detect and measure charged particles in the Level 1 trigger system.

My research interests prior to 1986 focused on the study of strange mesons, which formed the topic of my Ph.D. dissertation. I studied the orbitally and radially excited states of the K^* meson, as this system provided us with the cleanest experimental view of the spectroscopy of a light quark-antiquark state.

During the period 1978 through 1980, I participated in the first measurements of the lifetimes of charmed hadrons as a member of a University of Toronto research group.

6. b. Research Awards

I currently hold the following research awards:

- An NSERC Project Grant supporting the Canadian effort on the ATLAS experiment. The University of Toronto portion of this award in 2011-12 is \$1,100,000. This is held jointly with Profs. P. Krieger, R. S. Orr (PI), P. Savard, R. Teuscher and W. Trischuk.
- A Canada Foundation for Innovation award of \$15M from the Innovation Fund for the SCINET high performance computing facility, matched by the a contribution of \$15M from the Ontario Research Foundation. I am a co-investigator with an interest in using this facility for Tier II computing for the ATLAS experiment.
- Support from the Canadian Institute for Advanced Research of \$20,000 annually to support my research effort while Senior Vice-President, Research.

C. Scholarly and Professional Work

7. Refereed Publications (total of 718)

7.A. Most Relevant Publications

The following publications are my most relevant publications, following the guidelines developed by the Commission of Particles and Fields (C11) of the International Union of Pure and Applied Physics, September 2008. I have either been a primary author of the publication, or made significant specific contributions to the work therein, either as one of the working co-authors or through specific intellectual contributions to the study.

1. T. Aaltonen *et al.* [CDF Collaboration] (primary author), “*Study of Substructure of High Transverse Momentum Jets Produced in Proton-Antiproton Collisions at $\sqrt{s} = 1.96$ TeV*”, Accepted for publication in Phys. Rev. D arXiv:1106.5952 [hep-ex].

2. G. Aad *et al.* [ATLAS Collaboration] (primary author), “Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS” Phys. Lett. B **707**, 459 (2012) [arXiv:1108.3699 [hep-ex]]
3. G. Aad *et al.* [ATLAS Collaboration] (primary author), “Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector,” New J. Phys. **13**, 053044 (2011) [arXiv:1008.2461 [hep-ex]].
4. R. Alon, E. Duchovni, G. Perez, A. P. Pranko, P. K. Sinervo (primary author), “A Data-Driven Method of Pile-Up Correction for the Substructure of Massive Jets,” Phys. Rev. D **84**, 114025 (2011) [arXiv:1101.3002 [hep-ph]].
5. A. Abdesselam, E. B. Kuutmann, U. Bitenc, G. Brooijmans, J. Butterworth, P. Bruckman de Renstrom, D. Buarque Franzosi, R. Buckingham *et al.* (secondary author), “Boosted Objects: A Probe of Beyond the Standard Model Physics,” Eur. Phys. J. C **71**, 1661 (2011) [arXiv:1012.5412 [hep-ph]].
6. T. Aaltonen *et al.* [CDF Collaboration] (secondary author), “Measurement of $t\bar{t}$ Spin Correlation in $p\bar{p}$ Collisions Using the CDF II Detector at the Tevatron,” Phys. Rev. D **83**, 031104 (2011). [arXiv:1012.3093 [hep-ex]].
7. G. Aad *et al.* [ATLAS Collaboration] (primary author), “Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC,” Phys. Rev. Lett. **105**, 161801 (2010). [arXiv:1008.2461 [hep-ex]].
8. T. Aaltonen *et al.* (secondary author), “Measurement of the Fraction of $t\bar{t}$ Production via Gluon-Gluon Fusion in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 031101 (2009) [arXiv:0807.4262 [hep-ex]].
9. T. Aaltonen *et al.* (primary author), “First Measurement of the Fraction of Top Quark Pair Production Through Gluon-Gluon Fusion,” Phys. Rev. D **78**, 111101 (2008). [arXiv:0712.3273 [hep-ex]].
10. A. Abulencia *et al.* (primary author), “Precise Measurement of the Top Quark Mass in the Lepton + Jets Topology at CDF II,” Phys. Rev. Lett. **99**, 182002 (2007).
11. A. Abulencia *et al.* (primary author), “Top Quark Mass Measurement Using the Template Method in the Lepton + Jets Channel at CDF II,” Phys. Rev. D **73**, 032003 (2006).
12. A. Abulencia *et al.* (primary author), “Precision Top Quark Mass Measurement in the Lepton + Jets Topology in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 022004 (2006).
13. Search for a W' Boson Decaying to a Top and Bottom Quark Pair in 1.8 TeV $p\bar{p}$ Collisions, D. Acosta *et al.* (primary author), Phys. Rev. Lett. **90**, 081802 (2003).

14. *Signal Significance in Particle Physics*,
P. K. Sinervo, hep-ex/0208005 (August 2002). Published in the Proceedings of the Conference on Advanced Statistical Techniques in Particle Physics, Durham England, Mar 16-22 (2002).
15. *Search for Single Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
D. Acosta *et al.* (secondary author), Phys. Rev. D **65**, 091102 (2002).
16. *Measurement of the Top Quark P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (primary author), Phys. Rev. Lett. **87**, 102001 (2001).
17. *Search for a W' Boson via the Decay Mode $W' \rightarrow \mu\nu_\mu$ in 1.8-TeV $p\bar{p}$ Collisions*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **84**, 5716-5721 (2000).
18. *Measurement of b Quark Fragmentation Fractions in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (primary author), Phys. Rev. Lett. **84**, 1663-1668 (2000).
19. *Measurement of b Quark Fragmentation Fractions in the Production of Strange and Light B Mesons in Proton Anti-Proton Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. D. **60**, 092005 (1999).
20. *CVD Diamond Pixel Detectors for LHC Experiments*,
R. Wedenig *et al.* (secondary author), Nucl. Phys. Proc. Suppl. **78**, 497-504 (1999).
21. *The First Bump Bonded Pixel Detectors on CVD Diamond*,
W. Adam *et al.* (secondary author), Nucl. Instrum. Methods **A43**, 326-335 (1999).
22. *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*,
F. Abe *et al.* (primary author), Phys. Rev. D **58**, 072001 (1998).
23. *Ratios of Bottom Meson Branching Fractions Involving J/ψ Mesons and Determination of b Quark Fragmentation Fractions*, F. Abe *et al.* (primary author), Phys. Rev. D **54**, 6596-6609 (1996).
24. *Observation of Top Quark Production in $p\bar{p}$ Collisions with the Collider Detector at Fermilab*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **74**, 2626-2631 (1995).
25. *Evidence for top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. **D50**, 2966-3026 (1994).
26. *Evidence for Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **73**, 225-231 (1994).
27. *Limit on the Top Quark Mass from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. **D45**, 3921-3948 (1992).

28. *Performance and System Flexibility of the CDF Hardware Event Builder*,
T. M. Shaw, K. Schurecht and P. K. Sinervo, FERMILAB-CONF-91-314 (Nov 1991). To be published in the proceedings of the IEEE Nuclear Science Symposium, Sante Fe, NM (Nov 1991).
29. *Top Quark Search in the Electron + Jets Channel in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (primary author), Phys. Rev. **D43**, 664-686 (1991).
30. *A Search for the Top Quark in the Reaction $\bar{p}p \rightarrow$ Electron + Jets at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (primary author), Phys. Rev. Lett. **64**, 192-196 (1990).
31. *Fast Data Acquisition with the CDF Event Builder*,
P. K. Sinervo *et al.* (primary author), IEEE Trans. Nucl. Sci. **36**, 440-445 (1989).
32. *Evidence for a $J^{PC} = 4^{++}$ State at ~ 2.2 GeV/c² From K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **215B**, 199-204 (1988).
33. *The CDF Event Builder*,
A.W.Booth *et al.* (primary author), IEEE Trans. Nucl. Sci. **NS-34**, 790-795 (1987).
34. *The Organization and Maintenance of the CDF Offline Code on IBM VM and DEC VAX/VMS Operating Systems*,
K. Chadwick, R. Hollebeek and P.K. Sinervo (primary author), Comput. Phys. Commun. **45**, 409-415 (1987).
35. *The Strange Meson Resonances Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c*,
D. Aston *et al.* (primary author), Nucl. Phys. **B292**, 693-713 (1987).
36. *Observation of the Leading K^* L-Excitation Series from $J^P = 1^-$ Through 5^- in the Reaction $K^-p \rightarrow K^-\pi pn$ at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **180B**, 308-312 (1986).
37. *A Study of the Strange Meson Spectrum as Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c*, P.K. Sinervo, SLAC report 299, 1-233 (May 1986). Ph.D. Thesis.
38. *The SLAC Three-Body Partial Wave Analysis System*,
D. Aston, T. Lasinski and P.K. Sinervo (primary author), SLAC report 222, 1-66 (Oct 1985).
39. *The 3081/E Emulator: A Processor for use in On-line and Off-line Arrays*,
P.M. Ferran *et al.* (secondary author), SLAC preprint 3753, contributed to Conf. on Computing in High Energy Physics, Amsterdam, Netherlands, Jun 25-28, 1985.
40. *Partial Wave Analysis of the $\bar{K}^0\pi + \pi^-$ System Produced in K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (primary author), Nucl. Phys. **B247**, 261-292 (1984).
41. *Observation of Two Non-leading Strangeness-one Vector Mesons*,
D. Aston *et al.* (primary author), Phys. Lett. **149B**, 258-262 (1984).

42. *Measurement of the D^+ , F^+ and Λ_c^+ Charmed Particle Lifetimes*,
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1053-1056 (1980).
43. *Measurement of the D^0 Lifetime*,
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1049-1052 (1980).

7.B. Complete Bibliography of Refereed Publications

N.B. Most significant publications are indicated with an asterisk.

1. *“Study of Substructure of High Transverse Momentum Jets Produced in Proton-Antiproton Collisions at $\sqrt{s} = 1.96$ TeV”*
T. Aaltonen *et al.* [CDF Collaboration]. Accepted for Publication in Phys. Rev. D
arXiv:1106.5952 [hep-ex]
2. *“Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow 4l$ with 4.8 fb^{-1} of pp collision data at $\sqrt{s} = 7$ TeV with ATLAS”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.1415 [hep-ex]
Phys. Lett. B **710**, 383 (2012)
3. *“Search for the Standard Model Higgs boson in the diphoton decay channel with 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV with ATLAS”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.1414 [hep-ex]
Phys. Rev. Lett. **108**, 111803 (2012)
4. *“Combined search for the Standard Model Higgs boson using up to 4.9 fb^{-1} of pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.1408 [hep-ex]
Phys. Lett. B **710**, 49 (2012)
5. *“Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.2808 [hep-ex]
Eur. Phys. J. C **72**, 1926 (2012)
6. *“Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the Standard Model with the ATLAS detector”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.1091 [hep-ex]
Phys. Rev. D **88**, 032004 (2012)

7. “*Observation of a new χ_b state in radiative transitions to $\Upsilon(1S)$ and $\Upsilon(2S)$ at ATLAS*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.5154 [hep-ex]
Phys. Rev. Lett. **108**, 152001 (2012)
8. “*Measurement of the Top Quark Mass in the All-Hadronic Mode at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.4891 [hep-ex]
9. “*Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.4828 [hep-ex]
Phys. Lett. B **709**, 158 (2012)
10. “*Measurement of $D^{*+/-}$ meson production in jets from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.4432 [hep-ex]
Phys. Rev. D **85**, 052005 (2012)
11. “*Measurement of the branching fraction $\mathcal{B}(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^- \pi^+ \pi^-)$ at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.3334 [hep-ex]
Phys. Rev. D **85**, 032003 (2012)
12. “*Measurement of the masses and widths of the bottom baryons Σ_b^{+-} and Σ_b^{*+-}* ”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.2808 [hep-ex]
13. “*Measurement of ZZ production in leptonic final states at \sqrt{s} of 1.96 TeV at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.2978 [hep-ex]
Phys. Rev. Lett. **108**, 101801 (2012)
14. “*Search for the Higgs boson in the $H \rightarrow WW^* \rightarrow l\nu l\nu$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.2577 [hep-ex]
Phys. Rev. Lett. **108**, 111802 (2012)
15. “*Search for Extra Dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.2194 [hep-ex]
Phys. Lett. B **710**, 538 (2012)

16. “*Search for Standard Model Higgs Boson Production in Association with a W Boson at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.1930 [hep-ex]
Phys. Rev. D **85**, 052002 (2012)
17. “*Search for new phenomena in events with two Z bosons and missing transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.1577 [hep-ex]
Phys. Rev. D **85**, 011104 (2012)
18. “*Observation of Exclusive $\gamma\gamma$ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.0858 [hep-ex]
Phys. Rev. Lett. **108**, 081801 (2012)
19. “*Measurement of the WZ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1111.5570 [hep-ex]
Phys. Lett. B **709**, 341 (2012)
20. “*Measurement of CP-violating asymmetries in $D^0 \rightarrow \pi^+\pi^-$ and $D^0 \rightarrow K^+K^-$ decays at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1111.5023 [hep-ex]
Phys. Rev. D **85**, 012009 (2012)
21. “*Search for Diphoton Events with Large Missing Transverse Momentum in 1 fb^{-1} of 7 TeV Proton-Proton Collision Data with the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1111.4116 [hep-ex]
Phys. Lett. B **710**, 519 (2012)
22. “*Search for high-mass resonances decaying into ZZ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1111.3432 [hep-ex]
Phys. Rev. D **85**, 012008 (2012)
23. “*Measurement of the production cross section for Z/γ^* in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1111.2690 [hep-ex]
Phys. Rev. D **85**, 032009 (2012)

24. “ K_s^0 and Λ production in pp interactions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector at the LHC”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1111.1297 [hep-ex]
Phys. Rev. D **85**, 012001 (2012)
25. “Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1111.0080 [hep-ex]
Phys. Lett. B **709**, 322 (2012)
26. “A study of the material in the ATLAS inner detector using secondary hadronic interactions”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1110.6191 [hep-ex]
JINST **7**, P01013 (2012)
27. “Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1110.6189 [hep-ex]
Phys. Lett. B **709**, 137 (2012)
28. “Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1110.5016 [hep-ex]
Phys. Rev. Lett. **108**, 041804 (2012)
29. “Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1110.3174 [hep-ex]
Eur. Phys. J. C **72**, 1909 (2012)
30. “Search for Massive Colored Scalars in Four-Jet Final States in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS Detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1110.2693 [hep-ex]
Eur. Phys. J. C **71**, 1828 (2011)
31. “Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector”
G. Aad *et al.* [Atlas Collaboration].

- arXiv:1110.2299 [hep-ex]
 JHEP **1111**, 099 (2011)
32. “*Performance of the ATLAS Trigger System in 2010*”
 G. Aad *et al.* [Atlas Collaboration].
 arXiv:1110.1530 [hep-ex]
 Eur. Phys. J. C **72**, 1849 (2012)
33. “*Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.6833 [hep-ex]
 Eur. Phys. J. C **71**, 1846 (2011)
34. “*Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb^{-1} of ATLAS data*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.6606 [hep-ex]
 Phys. Rev. D **85**, 012006 (2012)
35. “*Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.6572 [hep-ex]
 Phys. Lett. B **710**, 67 (2012)
36. “*Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow 4l$ with the ATLAS detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.5945 [hep-ex]
 Phys. Lett. B **705**, 435 (2011)
37. “*Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.5816 [hep-ex]
 Eur. Phys. J. C **71**, 1795 (2011)
38. “*Search for New Phenomena in $t\bar{t}$ Events With Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.4725 [hep-ex]
 Phys. Rev. Lett. **108**, 041805 (2012)
39. “*Search for a Higgs Boson in the Diphoton Final State in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
 T. Aaltonen *et al.* [CDF Collaboration].

- arXiv:1109.4427 [hep-ex]
 Phys. Rev. Lett. **108**, 011801 (2012)
40. “Search for the Higgs boson in the $H^- \rightarrow WW^- \rightarrow lvjj$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.3615 [hep-ex]
 Phys. Rev. Lett. **107**, 231801 (2011)
41. “Search for a Standard Model Higgs boson in the $H^- \rightarrow ZZ^- \rightarrow l^+l^- \nu\nu^-$ decay channel with the ATLAS detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.3357 [hep-ex]
 Phys. Rev. Lett. **107**, 221802 (2011)
42. “Search for heavy metastable particles decaying to jet pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1109.3136 [hep-ex]
 Phys. Rev. D **85**, 012007 (2012)
43. “Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.2242 [hep-ex]
 Phys. Lett. B **707**, 478 (2012)
44. “Measurement of the cross-section for b-jets produced in association with a Z boson at $\sqrt{s} = 7$ TeV with the ATLAS detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.1403 [hep-ex]
 Phys. Lett. B **706**, 295 (2012)
45. “Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1109.1470 [hep-ex]
 Phys. Lett. B **707**, 418 (2012)
46. “Top-quark mass measurement using events with missing transverse energy and jets at CDF”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1109.1490 [hep-ex]
 Phys. Rev. Lett. **107**, 232002 (2011)
47. “Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”

- G. Aad *et al.* [ATLAS Collaboration].
arXiv:1109.0525 [hep-ex]
Phys. Lett. B **707**, 438 (2012)
48. “*Search for New Physics in the Dijet Mass Distribution using 1 fb^{-1} of pp Collision Data at $\sqrt{s} = 7 \text{ TeV}$ collected by the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.6311 [hep-ex]
Phys. Lett. B **708**, 37 (2012)
49. “*Measurement of the Transverse Momentum Distribution of W bosons in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.6308 [hep-ex]
Phys. Rev. D **85**, 012005 (2012)
50. “*Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.6027 [hep-ex]
Phys. Lett. B **710**, 363 (2012)
51. “*Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.6018 [hep-ex]
Phys. Lett. B **707**, 330 (2012)
52. “*Measurements of branching fraction ratios and CP-asymmetries in suppressed $B^- \rightarrow D(\rightarrow K^+\pi^-)K^-$ and $B^- \rightarrow D(\rightarrow K^+\pi^-)\pi^-$ decays*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1108.5765 [hep-ex]
Phys. Rev. D **84**, 091504 (2011)
53. “*Performance of Missing Transverse Momentum Reconstruction in Proton-Proton Collisions at 7 TeV with ATLAS*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.5602 [hep-ex]
Eur. Phys. J. C **72**, 1844 (2012)
54. “*Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow l^+l^-qq$ using the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.5064 [hep-ex]
Phys. Lett. B **707**, 27 (2012)

55. “A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $\sqrt{s} = 7$ TeV with ATLAS”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1108.4908 [hep-ex]
 Phys. Lett. B **708**, 221 (2012)
56. “Search for resonant production of $t\bar{t}$ decaying to jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1108.4755 [hep-ex]
 Phys. Rev. D **84**, 072003 (2011)
57. “Measurement of the $W \rightarrow \tau\nu$ Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1108.4101 [hep-ex]
 Phys. Lett. B **706**, 276 (2012)
58. “Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1108.3699 [hep-ex]
 Phys. Lett. B **707**, 459 (2012)
59. “Search for $WZ + ZZ$ production with MET + jets with b enhancement at $\sqrt{s} = 1.96$ TeV”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1108.2060 [hep-ex]
 Phys. Rev. D **85**, 012002 (2012)
60. “Measurement of the $Z \rightarrow \tau\tau$ Cross Section with the ATLAS Detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1108.2016 [hep-ex]
 Phys. Rev. D **84**, 112006 (2011)
61. “Measurement of the top-quark mass in the lepton+jets channel using a matrix element technique with the CDF II detector”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1108.1601 [hep-ex]
 Phys. Rev. D **84**, 071105 (2011)
62. “Search for dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1108.1582 [hep-ex]
 Phys. Rev. Lett. **107**, 272002 (2011)
63. “Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”

- G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.1316 [hep-ex]
Phys. Lett. B **705**, 28 (2011)
64. “*Measurements of the Angular Distributions in the Decays $B \rightarrow K^{(*)}\mu^+\mu^-$ at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1108.0695 [hep-ex]
Phys. Rev. Lett. **108**, 081807 (2012)
65. “*Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.0366 [hep-ex]
JHEP **1110**, 107 (2011)
66. “*Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV using 35 pb^{-1} of ATLAS data*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1108.0253 [hep-ex]
Phys. Lett. B **706**, 150 (2011)
67. “*Search for new physics in high p_T like-sign dilepton events at CDF II*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1108.0101 [hep-ex]
Phys. Rev. Lett. **107**, 181801 (2011)
68. “*A Search for resonant production of $t\bar{t}$ pairs in 4.8 fb^{-1} of integrated luminosity of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.5063 [hep-ex]
Phys. Rev. D **84**, 072004 (2011)
69. “*Search for neutral MSSM Higgs bosons decaying to $\tau^+\tau^-$ pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1107.5003 [hep-ex]
Phys. Lett. B **705**, 174 (2011)
70. “*Measurement of Polarization and Search for CP-Violation in $B_s^0 \rightarrow \phi\phi$ Decays*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.4999 [hep-ex]
Phys. Rev. Lett. **107**, 261802 (2011)
71. “*Search for a Heavy Top-Like Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].

- arXiv:1107.3875 [hep-ex]
Phys. Rev. Lett. **107**, 261801 (2011)
72. “*Observation of the Ξ_b^0 Baryon*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.4015 [hep-ex]
Phys. Rev. Lett. **107**, 102001 (2011)
73. “*Search for New T' Particles in Final States with Large Jet Multiplicities and Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.3574 [hep-ex]
Phys. Rev. Lett. **107**, 191803 (2011)
74. “*Observation of the Baryonic Flavor-Changing Neutral Current Decay $\Lambda_b \rightarrow \Lambda\mu^+\mu^-$* ”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.3753 [hep-ex]
Phys. Rev. Lett. **107**, 201802 (2011)
75. “*Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1107.3311 [hep-ex]
Phys. Rev. D **84**, 054001 (2011)
76. “*Measurement of the transverse momentum distribution of Z/γ^* bosons in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1107.2381 [hep-ex]
Phys. Lett. B **705**, 415 (2011)
77. “*Search for $B_s \rightarrow \mu^+\mu^-$ and $B_d \rightarrow \mu^+\mu^-$ Decays with CDF II*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1107.2304 [hep-ex]
Phys. Rev. Lett. **107**, 239903 (2011), [Phys. Rev. Lett. **107**, 191801 (2011)]
78. “*Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1107.2092 [hep-ex]
Eur. Phys. J. C **71**, 1763 (2011)
79. “*Measurement of dijet production with a veto on additional central jet activity in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].

- arXiv:1107.1641 [hep-ex]
 JHEP **1109**, 053 (2011)
80. “*Search for Diphoton Events with Large Missing Transverse Energy with 36 pb⁻¹ of 7 TeV Proton-Proton Collision Data with the ATLAS Detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1107.0561 [hep-ex]
 Eur. Phys. J. C **71**, 1744 (2011)
 81. “*Measurement of the isolated di-photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1107.0581 [hep-ex]
 Phys. Rev. D **85**, 012003 (2012)
 82. “*Measurement of the Cross Section for Prompt Isolated Diphoton Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1106.5123 [hep-ex]
 Phys. Rev. Lett. **107**, 102003 (2011)
 83. “*Measurement of the $\Upsilon(1S)$ Production Cross-Section in pp Collisions at $\sqrt{s} = 7$ TeV in ATLAS*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1106.5325 [hep-ex]
 Phys. Lett. B **705**, 9 (2011)
 84. “*Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1106.5327 [hep-ex]
 Phys. Lett. B **705**, 294 (2011)
 85. “*Search for Higgs Bosons Produced in Association with b-quarks*”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1106.4782 [hep-ex]
 Phys. Rev. D **85**, 032005 (2012)
 86. “*Search for Heavy Long-Lived Charged Particles with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1106.4495 [hep-ex]
 Phys. Lett. B **703**, 428 (2011)
 87. “*Evidence for $t\bar{t}\gamma$ Production and Measurement of $\sigma_{t\bar{t}\gamma}/\sigma_{t\bar{t}}$* ”
 T. Aaltonen *et al.* [CDF Collaboration].

- arXiv:1106.3970 [hep-ex]
Phys. Rev. D **84**, 031104 (2011)
88. “*Measurement of branching ratio and B_s^0 lifetime in the decay $B_s^0 \rightarrow J/\psi f_0(980)$ at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1106.3682 [hep-ex]
Phys. Rev. D **84**, 052012 (2011)
89. “*Limits on the production of the Standard Model Higgs Boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1106.2748 [hep-ex]
Eur. Phys. J. C **71**, 1728 (2011)
90. “*Measurement of W/γ and $Z\gamma$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1106.1592 [hep-ex]
JHEP **1109**, 072 (2011)
91. “*Measurements of the properties of $\Lambda_c(2595)$, $\Lambda_c(2625)$, $\Sigma_c(2455)$, and $\Sigma_c(2520)$ baryons*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1105.5995 [hep-ex]
Phys. Rev. D **84**, 012003 (2011)
92. “*Improved determination of the sample composition of dimuon events produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1105.5787 [hep-ex]
Eur. Phys. J. C **71**, 1720 (2011)
93. “*First Search for Multijet Resonances in $\sqrt{s} = 1.96$ TeV $p\bar{p}$ Collisions*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1105.2815 [hep-ex]
Phys. Rev. Lett. **107**, 042001 (2011)
94. “*Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using events with large Missing E_T and jets*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1105.1806 [hep-ex]
Phys. Rev. D **84**, 032003 (2011)
95. “*Top quark mass measurement using the template method at CDF*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1105.0192 [hep-ex]
Phys. Rev. D **83**, 111101 (2011)

96. “Search for a Very Light CP-Odd Higgs Boson in Top Quark Decays from $p\bar{p}$ Collisions at 1.96 TeV”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1104.5701 [hep-ex]
Phys. Rev. Lett. **107**, 031801 (2011)
97. “Measurement of the WW cross section in $\sqrt{s} = 7$ TeV pp collisions with ATLAS”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1104.5225 [hep-ex]
Phys. Rev. Lett. **107**, 041802 (2011)
98. “Search for Contact Interactions in Dimuon Events from pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1104.4398 [hep-ex]
Phys. Rev. D **84**, 011101 (2011)
99. “Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1104.4481 [hep-ex]
Phys. Rev. D **83**, 112006 (2011)
100. “Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s} = 7$ TeV”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1104.3038 [hep-ex]
Nucl. Phys. B **850**, 387 (2011)
101. “Search for the Rare Radiative Decay: $W \rightarrow \pi\gamma$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1104.1585 [hep-ex]
Phys. Rev. D **85**, 032001 (2012)
102. “Invariant Mass Distribution of Jet Pairs Produced in Association with a W boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1104.0699 [hep-ex]
Phys. Rev. Lett. **106**, 171801 (2011)
103. “Measurement of the Inelastic Proton-Proton Cross-Section at $\sqrt{s} = 7$ TeV with the ATLAS Detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1104.0326 [hep-ex]
Nature Commun. **2**, 463 (2011)

104. “Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.6208 [hep-ex]
Eur. Phys. J. C **71**, 1647 (2011)
105. “Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS experiment”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.6214 [hep-ex]
Eur. Phys. J. C **71**, 1682 (2011)
106. “Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.6218 [hep-ex]
Phys. Lett. B **700**, 163 (2011)
107. “Measurements of Direct CP Violating Asymmetries in Charmless Decays of Strange Bottom Mesons and Bottom Baryons”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.5762 [hep-ex]
Phys. Rev. Lett. **106**, 181802 (2011)
108. “Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.5559 [hep-ex]
Phys. Rev. Lett. **106**, 251801 (2011)
109. “First Measurement of the Angular Coefficients of Drell-Yan e^+e^- pairs in the Z Mass Region from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.5699 [hep-ex]
Phys. Rev. Lett. **106**, 241801 (2011)
110. “Measurement of Event Shapes in Proton-Antiproton Collisions at Center-of-Mass Energy 1.96 TeV”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.5143 [hep-ex]
Phys. Rev. D **83**, 112007 (2011)
111. “Search for New Dielectron Resonances and Randall-Sundrum Gravitons at the Collider Detector at Fermilab”
T. Aaltonen *et al.* [CDF Collaboration].

- arXiv:1103.4650 [hep-ex]
Phys. Rev. Lett. **107**, 051801 (2011)
112. “*Measurement of the Top Pair Production Cross Section in the Lepton + Jets Channel Using a Jet Flavor Discriminant*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.4821 [hep-ex]
Phys. Rev. D **84**, 031101 (2011)
113. “*Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in final states with missing transverse momentum and b-jets*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.4344 [hep-ex]
Phys. Lett. B **701**, 398 (2011)
114. “*Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.3864 [hep-ex]
New J. Phys. **13**, 053044 (2011)
115. “*Measurement of the mass difference between t and \bar{t} quarks*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.2782 [hep-ex]
Phys. Rev. Lett. **106**, 152001 (2011)
116. “*Measurement of the Muon Charge Asymmetry from W bosons Produced in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1103.2929 [hep-ex]
Phys. Lett. B **701**, 31 (2011)
117. “*Limits on Anomalous Trilinear Gauge Couplings in $Z\gamma$ Events from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.2990 [hep-ex]
Phys. Rev. Lett. **107**, 051802 (2011)
118. “*Search for Production of Heavy Particles Decaying to Top Quarks and Invisible Particles in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1103.2482 [hep-ex]
Phys. Rev. Lett. **106**, 191801 (2011)
119. “*Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC*”
G. Aad *et al.* [ATLAS Collaboration].

- arXiv:1103.1984 [hep-ex]
 Phys. Lett. B **701**, 1 (2011)
120. “*Measurements of underlying-event properties using neutral and charged particles in pp collisions at 900 GeV and 7 TeV with the ATLAS detector at the LHC*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1103.1816 [hep-ex]
 Eur. Phys. J. C **71**, 1636 (2011)
121. “*Measurement of the B_s Lifetime in Fully and Partially Reconstructed $B_s \rightarrow D_s^-(\phi\pi^-)X$ Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1103.1864 [hep-ex]
 Phys. Rev. Lett. **107**, 272001 (2011)
122. “*Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1103.1391 [hep-ex]
 Phys. Lett. B **701**, 50 (2011)
123. “*Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions*”
 G. Aad *et al.* [Atlas Collaboration].
 arXiv:1102.5290 [hep-ex]
 Phys. Lett. B **701**, 186 (2011)
124. “*Search for New Heavy Particles Decaying to $ZZ \rightarrow \ell\ell\ell, \ell\ell j$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*”
 T. Aaltonen *et al.* [CDF Collaboration].
 arXiv:1102.4566 [hep-ex]
 Phys. Rev. D **83**, 112008 (2011)
125. “*Measurement of Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV*”
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1102.2696 [hep-ex]
 Phys. Rev. Lett. **106**, 172002 (2011)
126. “*Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions*”
 G. Aad *et al.* [Atlas Collaboration].
 arXiv:1102.2357 [hep-ex]
 Phys. Rev. Lett. **106**, 131802 (2011)
127. “*Observation of $B_s^0 \rightarrow J/\psi K^{*0}(892)$ and $B_s^0 \rightarrow J/\psi K_S^0$ Decays*”
 T. Aaltonen *et al.* [CDF Collaboration].

- arXiv:1102.1961 [hep-ex]
Phys. Rev. D **83**, 052012 (2011)
128. “*Search for Massive Long-lived Highly Ionising Particles with the ATLAS Detector at the LHC*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1102.0459 [hep-ex]
Phys. Lett. B **698**, 353 (2011)
129. “*Search for the Higgs boson in the all-hadronic final state using the CDF II detector*”
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1102.0024 [hep-ex]
Phys. Rev. D **84**, 052010 (2011)
130. “*Search for heavy bottom-like quarks decaying to an electron or muon and jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*”
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1101.5728 [hep-ex]
Phys. Rev. Lett. **106**, 141803 (2011)
131. “*Measurement of the Top Quark Mass in the Lepton+Jets Channel Using the Lepton Transverse Momentum*”
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1101.4926 [hep-ex]
Phys. Lett. B **698**, 371 (2011)
132. “*Luminosity Determination in pp Collisions at $\sqrt{s}=7$ TeV Using the ATLAS Detector at the LHC*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1101.2185 [hep-ex]
Eur. Phys. J. C **71**, 1630 (2011)
133. “*Measurement of the Forward-Backward Asymmetry in the $B \rightarrow K^{(*)}\mu^+\mu^-$ Decay and First Observation of the $B_s^0 \rightarrow \phi\mu^+\mu^-$ Decay*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1101.1028 [hep-ex]
Phys. Rev. Lett. **106**, 161801 (2011)
134. “*Evidence for a Mass Dependent Forward-Backward Asymmetry in Top Quark Pair Production*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1101.0034 [hep-ex]
Phys. Rev. D **83**, 112003 (2011)
135. “*Study of Jet Shapes in Inclusive Jet Production in pp Collisions at $\sqrt{s} = 7$ TeV using the ATLAS Detector*”

- G. Aad *et al.* [Atlas Collaboration].
arXiv:1101.0070 [hep-ex]
Phys. Rev. D **83**, 052003 (2011)
136. “*Measurement of the production cross section for W bosons in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1012.5382 [hep-ex]
Phys. Lett. B **698**, 325 (2011)
137. “*Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [Atlas Collaboration].
arXiv:1012.4389 [hep-ex]
Phys. Rev. D **83**, 052005 (2011)
138. “*Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1012.5104 [hep-ex]
New J. Phys. **13**, 053033 (2011)
139. “*Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1012.4272 [hep-ex]
Phys. Rev. Lett. **106**, 121803 (2011)
140. “*Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV*”
G. Aad *et al.* [Atlas Collaboration].
arXiv:1012.1792 [hep-ex]
Eur. Phys. J. C **71**, 1577 (2011)
141. “*Measurement of underlying event characteristics using charged particles in pp collisions at $\sqrt{s} = 900$ GeV and 7 TeV with the ATLAS detector*”
G. Aad *et al.* [Atlas Collaboration].
arXiv:1012.0791 [hep-ex]
Phys. Rev. D **83**, 112001 (2011)
142. “*Measurement of the $t\bar{t}$ Production Cross Section with an in situ Calibration of b -jet Identification Efficiency*”
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1007.4423 [hep-ex]
Phys. Rev. D **83**, 071102 (2011)

143. “Combined Tevatron upper limit on $gg \rightarrow H \rightarrow W^+W^-$ and constraints on the Higgs boson mass in fourth-generation fermion models”
T. Aaltonen *et al.* [CDF and D0 Collaboration].
arXiv:1005.3216 [hep-ex]
Phys. Rev. D **82**, 011102 (2010)
144. G. Aad *et al.* [ATLAS Collaboration] (primary author), “Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector,”
New J. Phys. **13**, 053044 (2011) [arXiv:1008.2461 [hep-ex]].
145. R. Alon, E. Duchovni, G. Perez, A. P. Pranko, P. K. Sinervo (primary author), “A Data-Driven Method of Pile-Up Correction for the Substructure of Massive Jets,”
Phys. Rev. D **84**, 114025 (2011) [arXiv:1101.3002 [hep-ph]].
146. A. Abdesselam, E. B. Kuutmann, U. Bitenc, G. Brooijmans, J. Butterworth, P. Bruckman de Renstrom, D. Buarque Franzosi, R. Buckingham *et al.* (secondary author), “Boosted Objects: A Probe of Beyond the Standard Model Physics,”
Eur. Phys. J. C **71**, 1661 (2011) [arXiv:1012.5412 [hep-ph]].
147. T. Aaltonen *et al.* [CDF Collaboration] (secondary author), “Measurement of $t\bar{t}$ Spin Correlation in $p\bar{p}$ Collisions Using the CDF II Detector at the Tevatron,” Phys. Rev. **D83**, 031104 (2011). [arXiv:1012.3093 [hep-ex]].
148. T. Aaltonen *et al.* [The CDF Collaboration], “Search for High Mass Resonances Decaying to Muon Pairs in $\sqrt{s} = 1.96$ TeV $p\bar{p}$ Collisions,” Phys. Rev. Lett. **106**, 121801 (2011). [arXiv:1101.4578 [hep-ex]].
149. G. Aad *et al.* [Atlas Collaboration], “Measurement of the Centrality Dependence of J/ψ Yields and Observation of Z Production in Lead-Lead Collisions with the ATLAS Detector at the LHC,” Phys. Lett. **B697**, 294-312 (2011). [arXiv:1012.5419 [hep-ex]].
150. T. Aaltonen *et al.* [CDF Collaboration], “Search for a New Heavy Gauge Boson W' with Electron + Missing E_T Event Signature in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. **D83**, 031102 (2011). [arXiv:1012.5145 [hep-ex]].
151. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of b Hadron Lifetimes in Exclusive Decays Containing a J/ψ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **106**, 121804 (2011). [arXiv:1012.3138 [hep-ex]].
152. T. Aaltonen *et al.* [CDF Collaboration], “Search for Randall-Sundrum Gravitons in the Diphoton Channel at CDF,” Phys. Rev. **D83**, 011102 (2011). [arXiv:1012.2795 [hep-ex]].
153. G. Aad *et al.* [Atlas Collaboration], “Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at $\sqrt{s}(NN) = 2.76$ TeV with the ATLAS Detector at the LHC,” Phys. Rev. Lett. **105**, 252303 (2010). [arXiv:1011.6182 [hep-ex]].

154. G. Aad *et al.* [The ATLAS Collaboration], “Studies of the Performance of the ATLAS Detector using Cosmic-Ray Muons,” *Eur. Phys. J.* **C71**, 1593 (2011). [arXiv:1011.6665 [physics.ins-det]].
155. T. Aaltonen *et al.* [CDF Collaboration], “Top Quark Mass Measurement in the Lepton + Jets Channel Using a Matrix Element Method and *in situ* Jet Energy Calibration,” *Phys. Rev. Lett.* **105**, 252001 (2010). [arXiv:1010.4582 [hep-ex]].
156. H. Abreu, M. Aharrouche, M. Aleksa, L. Aperio Bella, J. P. Archambault, S. Arfaoui, O. Arnaez, E. Auge *et al.*, “Performance of the Electronic Readout of the ATLAS Liquid Argon Calorimeters,” *JINST* **5**, P09003 (2010).
157. G. Aad *et al.* [Atlas Collaboration], “Measurement of the $W \rightarrow l\nu$ and $Z/\gamma^* \rightarrow ll$ Production Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector,” *JHEP* **1012**, 060 (2010). [arXiv:1010.2130 [hep-ex]].
158. G. Aad *et al.* [ATLAS Collaboration], “Search for Quark Contact Interactions in Dijet Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector,” *Phys. Lett.* **B694**, 327-345 (2011). [arXiv:1009.5069 [hep-ex]].
159. G. Aad *et al.* [Atlas Collaboration], “Measurement of Inclusive Jet and Dijet Cross Sections in pp Collisions at 7 TeV Centre-of-Mass Energy with the ATLAS Detector,” *Eur. Phys. J.* **C71**, 1512 (2011). [arXiv:1009.5908 [hep-ex]].
160. T. Aaltonen *et al.* [CDF Collaboration], “Improved Search for a Higgs Boson Produced in Association with $Z \rightarrow l^+l^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **105**, 251802 (2010). [arXiv:1009.3047 [hep-ex]].
161. T. Aaltonen *et al.* [CDF Collaboration], “Search for the Supersymmetric Partner of the Top Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev.* **D82**, 092001 (2010). [arXiv:1009.0266 [hep-ex]].
162. T. Aaltonen *et al.* [CDF Collaboration], “Updated Search for the Flavor-Changing Neutral-Current Decay $D^0 \rightarrow \mu^+\mu^-$,” *Phys. Rev.* **D82**, 091105 (2010). [arXiv:1008.5077 [hep-ex]].
163. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the $WW + WZ$ Production Cross Section Using a Matrix Element Technique in Lepton + Jets Events,” *Phys. Rev.* **D82**, 112001 (2010). [arXiv:1008.4404 [hep-ex]].
164. G. Aad *et al.* [ATLAS Collaboration] (primary author), “Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC,” *Phys. Rev. Lett.* **105**, 161801 (2010). [arXiv:1008.2461 [hep-ex]].
165. T. Aaltonen *et al.* [CDF Collaboration], “Direct Top-Quark Width Measurement CDF,” *Phys. Rev. Lett.* **105**, 232003 (2010). [arXiv:1008.3891 [hep-ex]].

166. G. Aad *et al.* [ATLAS Collaboration], “Readiness of the ATLAS Tile Calorimeter for LHC Collisions,” *Eur. Phys. J.* **C70**, 1193-1236 (2010). [arXiv:1007.5423 [physics.ins-det]].
167. T. Aaltonen *et al.* [CDF Collaboration], “Diffractive W and Z Production at the Fermilab Tevatron,” *Phys. Rev.* **D82**, 112004 (2010). [arXiv:1007.5048 [hep-ex]].
168. G. Aad *et al.* [ATLAS Collaboration], “Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays,” *Eur. Phys. J.* **C70**, 875-916 (2010). [arXiv:1006.4384 [physics.ins-det]].
169. T. Aaltonen *et al.* [CDF Collaboration], “Exclusion of an Exotic Top Quark with $-4/3$ Electric Charge Using Soft Lepton Tagging,” *Phys. Rev. Lett.* **105**, 101801 (2010). [arXiv:1006.4597 [hep-ex]].
170. GAad *et al.* [Atlas Collaboration], “Performance of the ATLAS Detector using First Collision Data,” *JHEP* **1009**, 056 (2010). [arXiv:1005.5254 [hep-ex]].
171. G. Aad *et al.* [ATLAS Collaboration], “The ATLAS Simulation Infrastructure,” *Eur. Phys. J.* **C70**, 823-874 (2010). [arXiv:1005.4568 [physics.ins-det]].
172. T. A. Aaltonen *et al.* [CDF Collaboration], “Measurement of $d\sigma/dy$ of Drell-Yan e^+e^- Pairs in the Z Mass Region from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Lett.* **B692**, 232-239 (2010). [arXiv:0908.3914 [hep-ex], arXiv:0908.3914 [hep-ex]].
173. T. Aaltonen *et al.* [CDF Collaboration], “Search for the Production of Scalar Bottom Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **105**, 081802 (2010). [arXiv:1005.3600 [hep-ex]].
174. G. Aad *et al.* [ATLAS Collaboration], “The ATLAS Inner Detector Commissioning and Calibration,” *Eur. Phys. J.* **C70**, 787-821 (2010). [arXiv:1004.5293 [physics.ins-det]].
175. T. Aaltonen *et al.* [The CDF Collaboration], “Search for WW and WZ Resonances Decaying to Electron, Missing E_T , and Two Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 241801 (2010). [arXiv:1004.4946 [hep-ex]].
176. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the B^- Lifetime using a Simulation-Free Approach for Trigger Bias Correction,” *Phys. Rev.* **D83**, 032008 (2011). [arXiv:1004.4855 [hep-ex]].
177. T. Aaltonen *et al.* [The CDF Collaboration], “Search for R-parity Violating Decays of τ sneutrinos to $e\mu$, $\mu\tau$, and $e\tau$ Pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **105**, 191801 (2010). [arXiv:1004.3042 [hep-ex]].
178. T. Aaltonen *et al.* [CDF Collaboration], “First Measurement of the Ratio $\sigma_{t\bar{t}}/\sigma_{Z/\gamma^*\rightarrow ll}$ and Precise Extraction of the $t\bar{t}$ Cross Section,” *Phys. Rev. Lett.* **105**, 012001 (2010). [arXiv:1004.3224 [hep-ex]].
179. T. Aaltonen *et al.* [CDF Collaboration], “Observation of Single Top Quark Production and Measurement of $|V_{tb}|$ with CDF,” *Phys. Rev.* **D82**, 112005 (2010). [arXiv:1004.1181 [hep-ex]].

180. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of Z/γ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. **D82**, 031103 (2010). [arXiv:1004.1140 [hep-ex]].
181. G. Aad *et al.* [ATLAS Collaboration], “Charged-Particle Multiplicities in pp Interactions at $\sqrt{s} = 900$ GeV Measured with the ATLAS Detector at the LHC,” Phys. Lett. **B688**, 21-42 (2010). [arXiv:1003.3124 [hep-ex]].
182. T. Aaltonen *et al.* [The CDF Collaboration], “Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron,” Phys. Rev. **D82**, 034001 (2010). [arXiv:1003.3146 [Unknown]].
183. T. Aaltonen *et al.* [The CDF Collaboration], “Measurement of W Boson Polarization in Top-quark Decay in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **105**, 042002 (2010). [arXiv:1003.0224 [hep-ex]].
184. GAad *et al.* [ATLAS Collaboration], “Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons,” Eur. Phys. J. **C70**, 755-785 (2010). [arXiv:1002.4189 [physics.ins-det]].
185. T. Aaltonen *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 Soft Electron b -Tagging,” Phys. Rev. **D81**, 092002 (2010). [arXiv:1002.3783 [hep-ex]].
186. T. Aaltonen *et al.* [The CDF Collaboration], “Measurement of the Top Quark Pair Production Cross Section in the Dilepton Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. **D82**, 052002 (2010). [arXiv:1002.2919 [hep-ex]].
187. T. Aaltonen *et al.* [The CDF Collaboration], “Search for Single Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV in the Missing Transverse Energy Plus Jets Topology,” Phys. Rev. **D81**, 072003 (2010). [arXiv:1001.4577 [hep-ex]].
188. T. Aaltonen *et al.* [CDF Collaboration], “Search for New Physics with a Dijet plus Missing Transverse Energy Signature in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **105**, 131801 (2010). [arXiv:0912.4691 [hep-ex]].
189. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the W^+W^- Production Cross Section and Search for Anomalous $WW\gamma$ and WWZ Couplings in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **104**, 201801 (2010). [arXiv:0912.4500 [hep-ex]].
190. T. Aaltonen *et al.* [CDF Collaboration], “A Study of the Associated Production of Photons and b -Quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. **D81**, 052006 (2010). [arXiv:0912.3453 [hep-ex]].
191. G. Aad *et al.* [ATLAS Collaboration], “Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions,” Eur. Phys. J. **C70**, 723-753 (2010). [arXiv:0912.2642 [physics.ins-det]].

192. T. Aaltonen *et al.* [CDF Collaboration], “Search for Pair Production of Supersymmetric Top Quarks in Dilepton Events from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **104**, 251801 (2010). [arXiv:0912.1308 [hep-ex]].
193. T. Aaltonen *et al.* [CDF Collaboration], “A Search for the Higgs Boson Using Neural Networks in Events with Missing Energy and b -Quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **104**, 141801 (2010). [arXiv:0911.3935 [hep-ex]].
194. T. Aaltonen *et al.* [CDF Collaboration], “Search for New Color-Octet Vector Particle Decaying to $t\bar{t}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Lett. **B691**, 183-190 (2010). [arXiv:0911.3112 [hep-ex]].
195. T. Aaltonen *et al.* [CDF Collaboration], “Search for Anomalous Production of Events with Two Photons and Additional Energetic Objects at CDF,” Phys. Rev. **D82**, 052005 (2010). [arXiv:0910.5170 [hep-ex]].
196. T. Aaltonen *et al.* [CDF Collaboration], “First Measurement of the b -jet Cross Section in Events with a W Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **104**, 131801 (2010). [arXiv:0909.1505 [hep-ex]].
197. T. Aaltonen *et al.* [The CDF Collaboration], “*Measurement of the Top Quark Mass and $p\bar{p} \rightarrow t\bar{t}$ Cross Section in the All-Hadronic Mode with the CDFII Detector,*” Phys. Rev. D **81**, 052011 (2010).
198. T. Aaltonen *et al.* [The CDF Collaboration], “*Inclusive Search for Standard Model Higgs Boson Production in the WW Decay Channel using the CDF II Detector,*” Phys. Rev. Lett. **104**, 061803 (2010).
199. T. Aaltonen *et al.* [CDF and D0 Collaborations], “*Combination of Tevatron searches for the standard model Higgs boson in the W^+W^- decay mode,*” Phys. Rev. Lett. **104**, 061802 (2010).
200. T. Aaltonen *et al.* [CDF Collaboration], “*Measurement of the Λ_b Lifetime in $\Lambda_b \rightarrow \Lambda_c^+ \pi^-$ Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” Phys. Rev. Lett. **104**, 102002 (2010).
201. T. Aaltonen *et al.* [The CDF Collaboration], “*Search for Technicolor Particles Produced in Association with a W Boson at CDF,*” Phys. Rev. Lett. **104**, 111802 (2010).
202. T. Aaltonen *et al.* [CDF Collaboration], “*Search for New Bottom-like Quark Pair Decays $Q\bar{Q} \rightarrow (tW^\mp)(\bar{t}W^\pm)$ in Same-Charge Dilepton Events,*” Phys. Rev. Lett. **104**, 091801 (2010).
203. T. Aaltonen *et al.* [CDF Collaboration], “*Measurement of the $WW+WZ$ Production Cross Section Using the Lepton+Jets Final State at CDF II,*” Phys. Rev. Lett. **104**, 101801 (2010).
204. T. Aaltonen *et al.* [CDF Collaboration], “*Top Quark Mass Measurement using $mT2$ in the Dilepton Channel at CDF,*” Phys. Rev. D **81**, 031102 (2010).

205. T. Aaltonen *et al.* [CDF Collaboration], “Measurements of branching fraction ratios and CP asymmetries in $B^\pm \rightarrow D_{CP}K^\pm$ decays in hadron collisions,” Phys. Rev. D **81**, 031105 (2010).
206. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the Inclusive Isolated Prompt Photon Cross Section in $\bar{p}p$ Collisions at $\sqrt{s} = 1.96$ TeV using the CDF Detector,” Phys. Rev. D **80**, 111106 (2009).
207. T. Aaltonen *et al.* [CDF Collaboration], “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events with Missing Transverse Energy at CDF II,” Phys. Rev. Lett. **104**, 011801 (2010).
208. T. Aaltonen *et al.* [CDF Collaboration], “Measurements of the top-quark mass using charged particle tracking,” Phys. Rev. D **81**, 032002 (2010).
209. T. Aaltonen *et al.* [CDF Collaboration], “A Search for the Associated Production of the Standard-Model Higgs Boson in the All-Hadronic Channel,” Phys. Rev. Lett. **103**, 221801 (2009).
210. T. Aaltonen *et al.* [CDF Collaboration], “Measurement of the Top Quark Mass Using the Invariant Mass of Lepton Pairs in Soft Muon b -tagged Events,” Phys. Rev. D **80**, 051104 (2009).
211. T. Aaltonen *et al.* (joint author), “A Search for the Higgs Boson Produced in Association with $Z \rightarrow \ell^+\ell^-$ Using the Matrix Element Method at CDF II,” Phys. Rev. D **80**, 071101 (2009).
212. T. Aaltonen *et al.* (joint author), “Search for Higgs Bosons Predicted in Two-Higgs-Doublet Models via Decays to τ Lepton Pairs in 1.96 TeV $\bar{p}p$ Collisions,” Phys. Rev. Lett. **103**, 201801 (2009).
213. T. Aaltonen *et al.* (joint author), “First Observation of $\bar{B}_s^0 \rightarrow D_s^\pm K^\mp$ and Measurement of the Ratio of Branching Fractions $B(\bar{B}_s^0 \rightarrow D_s^\pm K^\mp) / B(\bar{B}_s^0 \rightarrow D_s^+ \pi^-)$,” Phys. Rev. Lett. **103**, 191802 (2009).
214. T. Aaltonen *et al.* (joint author), “Precision Measurement of the $X(3872)$ Mass in $J/\psi\pi^+\pi^-$ Decays,” Phys. Rev. Lett. **103**, 152001 (2009).
215. T. Aaltonen *et al.* (joint author), “Measurement of the Top Quark Mass Using the Invariant Mass of Lepton Pairs in Soft Muon b -tagged Events,” Phys. Rev. D **80**, 051104 (2009).
216. T. Aaltonen *et al.* (joint author), “Search for Hadronic Decays of W and Z Bosons in Photon Events in $\bar{p}p$ Collisions at $\sqrt{s} = 1.96$ GeV,” Phys. Rev. D **80**, 052011 (2009).
217. T. Aaltonen *et al.* (joint author), “Search for Anomalous Production of Events with a Photon, Jet, b -quark Jet, and Missing Transverse Energy,” Phys. Rev. D **80**, 052003 (2009).

218. T. Aaltonen *et al.* (joint author), “Search for the Neutral Current Top Quark Decay $t \rightarrow Zc$ Using the Ratio of Z-Boson + 4 Jets to W-Boson + 4 Jets Production,” Phys. Rev. D **80**, 052001 (2009).
219. T. Aaltonen *et al.* (joint author), “Observation of the Ω_b^- and Measurement of the Properties of the ξ_b^- and Ω_b^- ,” Phys. Rev. D **80**, 072003 (2009).
220. T. Aaltonen *et al.* (joint author), “Measurement of Cross Sections for b Jet Production in Events with a Z Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 072005 (2009).
221. T. Aaltonen *et al.* (joint author), “Search for Charged Higgs Bosons in Decays of Top Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **103**, 101803 (2009).
222. T. Aaltonen *et al.* (joint author), “Searching the Inclusive Lepton + Photon + Missing ET + b-quark Signature for Radiative Top Quark Decay and Non-Standard-Model Processes,” Phys. Rev. D **80**, 011102 (2009).
223. T. Aaltonen *et al.* (joint author), “Search for a Higgs Boson in $WH \rightarrow \ell\nu b\bar{b}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **103**, 101802 (2009).
224. T. Aaltonen *et al.* (joint author), “Search for a Fermiophobic Higgs Boson Decaying into Diphotons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **103**, 061803 (2009).
225. T. Aaltonen *et al.* (joint author), “Production of $\psi(2S)$ Mesons in $p\bar{p}$ Collisions at 1.96 TeV,” Phys. Rev. D **80**, 031103 (2009).
226. T. Aaltonen *et al.* (joint author), “Search for Standard Model Higgs Boson Production in Association with a W Boson using a Neural Network,” Phys. Rev. D **80**, 012002 (2009).
227. T. Aaltonen *et al.* (joint author), “First Observation of Vector Boson Pairs in a Hadronic Final State at the Tevatron Collider,” Phys. Rev. Lett. **103**, 091803 (2009).
228. T. Aaltonen *et al.* (joint author), “Measurement of Particle Production and Inclusive Differential Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 112005 (2009).
229. T. Aaltonen *et al.* (joint author), “Search for WW and WZ Production in Lepton Plus Jets Final State at CDF,” Phys. Rev. D **79**, 112011 (2009).
230. T. Aaltonen *et al.* (joint author), “First Observation of Electroweak Single Top Quark Production,” Phys. Rev. Lett. **103**, 092002 (2009).
231. T. Aaltonen *et al.* (joint author), “Search for Narrow Resonances Lighter than Υ Mesons,” Eur. Phys. J. C **62**, 319 (2009).
232. T. Aaltonen *et al.* (joint author), “Evidence for a Narrow Near-Threshold Structure in the $J/\psi\phi$ Mass Spectrum in $B^+ \rightarrow J/\psi\phi K^+$ Decays,” Phys. Rev. Lett. **102**, 242002 (2009).

233. T. Aaltonen *et al.* (joint author), “Measurement of the b -Hadron Production Cross Section Using Decays to $\mu^- D^0 X$ Final States in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 092003 (2009).
234. T. Aaltonen *et al.* (joint author), “Search for Gluino-Mediated Sbottom Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **102**, 221801 (2009).
235. T. Aaltonen *et al.* (joint author), “First Measurement of the $t\bar{t}$ Differential Cross Section $d\sigma/dM_{t\bar{t}}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **102**, 222003 (2009).
236. T. Aaltonen *et al.* (joint author), “A Measurement of the $t\bar{t}$ Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using Dilepton Events with a Lepton plus Track Selection,” Phys. Rev. D **79**, 112007 (2009).
237. T. Aaltonen *et al.* (joint author), “Search for Long-Lived Massive Charged Particles in 1.96 TeV $p\bar{p}$ Collisions,” Phys. Rev. Lett. **103**, 021802 (2009).
238. T. Aaltonen *et al.* (joint author), “Observation of exclusive charmonium production and $\gamma + \gamma \rightarrow \mu^+ \mu^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **102**, 242001 (2009).
239. T. Aaltonen *et al.* (joint author), “Search for Exclusive Z Boson Production and Observation of High Mass $p\bar{p} \rightarrow \gamma\gamma \rightarrow p + \ell\ell + \bar{p}$ Events in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **102**, 222002 (2009).
240. T. Aaltonen *et al.* (joint author), “Search for the Production of Narrow tb Resonances in 1.9 fb^{-1} of $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **103**, 041801 (2009).
241. T. Aaltonen *et al.* (joint author), “Direct Measurement of the W Production Charge Asymmetry in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **102**, 181801 (2009).
242. T. Aaltonen *et al.* (joint author), “Search for the Decays $B_s^0 \rightarrow e^+ \mu^-$ and $B_s^0 \rightarrow e^+ e^-$ in CDF Run II,” Phys. Rev. Lett. **102**, 201801 (2009).
243. T. Aaltonen *et al.* (joint author), “Measurement of the $t\bar{t}$ Production Cross Section in 2 fb^{-1} of $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV Using Lepton Plus Jets Events with Soft Muon b -Tagging,” Phys. Rev. D **79**, 052007 (2009).
244. T. Aaltonen *et al.* (joint author), “Search for Top Quark Production via Flavor-Changing Neutral Currents in $W+1$ Jet Events at CDF,” Phys. Rev. Lett. **102**, 151801 (2009).
245. T. Aaltonen *et al.* (joint author), “Search for New Particles Decaying into Dijets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 112002 (2009).
246. T. Aaltonen *et al.* (joint author), “Observation of New Charmless Decays of Bottom Hadrons,” Phys. Rev. Lett. **103**, 031801 (2009).
247. T. Aaltonen *et al.* (joint author), “Top Quark Mass Measurement in the Lepton plus Jets Channel Using a Modified Matrix Element Method,” Phys. Rev. D **79**, 072001 (2009).

248. T. Aaltonen *et al.* (joint author), “A Search for High-Mass Resonances Decaying to Dimuons at CDF,” *Phys. Rev. Lett.* **102**, 091805 (2009).
249. T. Aaltonen *et al.* (joint author), “Measurement of W-Boson Helicity Fractions in Top-Quark Decays Using $\cos(\theta^*)$,” *Phys. Lett. B* **674**, 160 (2009).
250. T. Aaltonen *et al.* (joint author), “Inclusive Search for Squark and Gluino Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **102**, 121801 (2009).
251. T. Aaltonen *et al.* (joint author), “Measurement of the k_T Distribution of Particles in Jets Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **102**, 232002 (2009).
252. T. Aaltonen *et al.* (joint author), “Search for High-Mass e^+e^- Resonances in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **102**, 031801 (2009).
253. T. Aaltonen *et al.* (joint author), “Top Quark Mass Measurement in the $t\bar{t}$ All Hadronic Channel using a Matrix Element Technique in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **79**, 072010 (2009).
254. T. Aaltonen *et al.* (joint author), “Measurement of the Top Quark Mass at CDF Using the ‘Neutrino ϕ Weighting’ Template Method on a Lepton Plus Isolated Track Sample,” *Phys. Rev. D* **79**, 072005 (2009).
255. T. Aaltonen *et al.* (joint author), “First Measurement of the Ratio of Branching Fractions $B(\Lambda_b^0 \rightarrow \Lambda_c^+ \mu^- \bar{\nu}_\mu)/B(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-)$,” *Phys. Rev. D* **79**, 032001 (2009).
256. T. Aaltonen *et al.* (joint author), “Search for New Physics in the $\mu\mu + e/\mu +$ Missing Transverse Energy Channel with a Low- p_T Lepton Threshold at the Collider Detector at Fermilab,” *Phys. Rev. D* **79**, 052004 (2009).
257. T. Aaltonen *et al.* (joint author), “Measurement of the Single Top Quark Production Cross Section at CDF,” *Phys. Rev. Lett.* **101**, 252001 (2008).
258. T. Aaltonen *et al.* (joint author), “Search for a Higgs Boson Decaying to Two W Bosons at CDF,” *Phys. Rev. Lett.* **102**, 021802 (2009).
259. T. Aaltonen *et al.* (joint author), “First Simultaneous Measurement of the Top Quark Mass in the Lepton + Jets and Dilepton Channels at CDF,” *Phys. Rev. D* **79**, 092005 (2009).
260. T. Aaltonen *et al.* (joint author), “Search for Maximal Flavor Violating Scalars in Same-Charge Lepton Pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **102**, 041801 (2009).
261. T. Aaltonen *et al.* (joint author), “Measurement of Resonance Parameters of Orbitally Excited Narrow B^0 Mesons,” *Phys. Rev. Lett.* **102**, 102003 (2009).
262. T. Aaltonen *et al.* (joint author), “Search for Doubly Charged Higgs Bosons with Lepton-Flavor-Violating Decays involving τ Leptons,” *Phys. Rev. Lett.* **101**, 121801 (2008).

263. T. Aaltonen *et al.* (joint author), “First Direct Bound on the Total Width of the Top Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **102**, 042001 (2009).
264. T. Aaltonen *et al.* (joint author), “Search for Supersymmetry in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV Using the Trilepton Signature of Chargino-Neutralino Production,” *Phys. Rev. Lett.* **101**, 251801 (2008).
265. T. Aaltonen *et al.* (joint author), “Measurement of the Inclusive Jet Cross Section at the Fermilab Tevatron $p\bar{p}$ Collider Using a Cone-Based Jet Algorithm,” *Phys. Rev. D* **78**, 052006 (2008). Erratum, *ibid.* **D 79**, 119902 (2009).
266. T. Aaltonen *et al.* (joint author), “Search for Large Extra Dimensions in Final States Containing One Photon or Jet and Large Missing Transverse Energy Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **101**, 181602 (2008).
267. T. Aaltonen *et al.* (secondary author), “Measurement of the Fraction of $t\bar{t}$ Production via Gluon-Gluon Fusion in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **79**, 031101 (2009).
268. T. Aaltonen *et al.* (joint author), “Search for the Higgs boson produced with $Z \rightarrow \ell^+\ell^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **101**, 251803 (2008).
269. T. Aaltonen *et al.* (joint author), “Measurement of the Top Quark Mass with Dilepton Events Selected Using Neuroevolution at CDF,” *Phys. Rev. Lett.* **102**, 152001 (2009).
270. T. Aaltonen *et al.* (joint author), “Measurement of b -jet Shapes in Inclusive Jet Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **78**, 072005 (2008).
271. T. Aaltonen *et al.* (joint author), “Forward-Backward Asymmetry in Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **101**, 202001 (2008).
272. T. Aaltonen *et al.* (joint author), “Search for the Flavor Changing Neutral Current Decay $t \rightarrow Zq$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **101**, 192002 (2008).
273. T. Aaltonen *et al.* (joint author), “Search for Heavy, Long-Lived Neutralinos that Decay to Photons at CDF II Using Photon Timing,” *Phys. Rev. D* **78**, 032015 (2008).
274. T. Aaltonen *et al.* (joint author), “Search for the Rare Decays $B^+ \rightarrow \mu^+\mu^-K^+$, $B^0 \rightarrow \mu^+\mu^-K^{*0}(892)$, and $B_s^0 \rightarrow \mu^+\mu^-\phi$ at CDF,” *Phys. Rev. D* **79**, 011104 (2009).
275. T. Aaltonen *et al.* (joint author), “Search for Standard Model Higgs Boson Production in Association with a W Boson at CDF,” *Phys. Rev. D* **78**, 032008 (2008).
276. T. Aaltonen *et al.* (joint author), “Search for the Higgs Boson in Events with Missing Transverse Energy and b Quark Jets Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **100**, 211801 (2008).
277. T. Aaltonen *et al.* (joint author), “Two-Particle Momentum Correlations in Jets Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **77**, 092001 (2008).

278. T. Aaltonen *et al.* (joint author), “Search for Pair Production of Scalar Top Quarks Decaying to a τ Lepton and a b Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **101**, 071802 (2008).
279. T. Aaltonen *et al.* (joint author), “Search for New Heavy Particles Decaying to $Z^0 Z^0 \rightarrow eeee$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **78**, 012008 (2008).
280. T. Aaltonen *et al.* (joint author), “Measurement of Ratios of Fragmentation Fractions for Bottom Hadrons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **77**, 072003 (2008).
281. T. Aaltonen *et al.* (joint author), “First Measurement of ZZ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **100**, 201801 (2008).
282. G. Aad *et al.* [ATLAS Collaboration] (joint author), “The ATLAS Experiment at the CERN Large Hadron Collider,” *JINST* **3**, S08003 (2008).
283. T. Aaltonen *et al.* (primary author), “First Measurement of the Fraction of Top Quark Pair Production Through Gluon-Gluon Fusion,” *Phys. Rev. D* **78**, 111101 (2008).
284. T. Aaltonen *et al.* (joint author), “Search for Heavy Top-like Quarks $t' \rightarrow Wq$ Using Lepton Plus Jets Events in 1.96 TeV $p\bar{p}$ Collisions,” *Phys. Rev. Lett.* **100**, 161803 (2008).
285. T. Aaltonen *et al.* (joint author), “First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in $B_s \rightarrow J/\psi\phi$ Decays,” *Phys. Rev. Lett.* **100**, 161802 (2008).
286. T. Aaltonen *et al.* (joint author), “Observation of Exclusive Dijet Production at the Fermilab Tevatron $p\bar{p}$ Collider,” *Phys. Rev. D* **77**, 052004 (2008).
287. T. Aaltonen *et al.* (joint author), “Observation of the Decay $B_c^\pm \rightarrow J/\psi\pi^\pm$ and Measurement of the B_c^\pm Mass,” *Phys. Rev. Lett.* **100**, 182002 (2008).
288. T. Aaltonen *et al.* (joint author), “Search for $B_s \rightarrow \mu^+\mu^-$ and $B_d \rightarrow \mu^+\mu^-$ Decays with 2 fb^{-1} of $p\bar{p}$ Collisions,” *Phys. Rev. Lett.* **100**, 101802 (2008).
289. T. Aaltonen *et al.* (joint author), “Evidence for $D^0 - \bar{D}^0$ Mixing using the CDF II Detector,” *Phys. Rev. Lett.* **100**, 121802 (2008).
290. T. Aaltonen *et al.* (joint author), “Measurement of Lifetime and Decay-Width Difference in $B_s^0 \rightarrow J/\psi \phi$ Decays,” *Phys. Rev. Lett.* **100**, 121803 (2008).
291. T. Aaltonen *et al.* (joint author), “First Measurement of the Production of a W Boson in Association with a Single Charm Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **100**, 091803 (2008).
292. T. Aaltonen *et al.* (joint author), “Search for Chargino-Neutralino Production in $p\bar{p}$ Collisions at 1.96 TeV with High p_T Leptons,” *Phys. Rev. D* **77**, 052002 (2008).

293. T. Aaltonen *et al.* (joint author), “Measurement of Inclusive Jet Cross Sections in $Z/\gamma \rightarrow ee) + \text{Jets Production in } p\bar{p} \text{ Collisions at } \sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. Lett. **100**, 102001 (2008).
294. T. Aaltonen *et al.* (joint author), “Measurement of the Cross Section for W Boson Production in Association with Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. D **77**, 011108 (2008).
295. T. Aaltonen *et al.* (joint author), “First Observation of the Decay $B_s^0 \rightarrow D_s^- D_s^+$ and Measurement of its Branching Ratio,” Phys. Rev. Lett. **100**, 021803 (2008).
296. T. Aaltonen *et al.* (joint author), “Cross Section Constrained Top Quark Mass Measurement from Dilepton Events at the Tevatron,” Phys. Rev. Lett. **100**, 062005 (2008).
297. T. Aaltonen *et al.* (joint author), “A Direct Measurement of the W Boson Width in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. Lett. **100**, 071801 (2008).
298. T. Aaltonen *et al.* (joint author), “Observation of Orbitally Excited B_s Mesons,” Phys. Rev. Lett. **100**, 082001 (2008).
299. T. Aaltonen *et al.* (joint author), “Search for Standard Model Higgs Bosons Produced in Association with W Bosons,” Phys. Rev. Lett. **100**, 041801 (2008).
300. T. Aaltonen *et al.* (joint author), “Limits on the Production of Narrow $t\bar{t}$ Resonances in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. D **77**, 051102 (2008).
301. T. Aaltonen *et al.* (joint author), “Search for Resonant $t\bar{t}$ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. Lett. **100**, 231801 (2008).
302. T. Aaltonen *et al.* (joint author), “First Run II Measurement of the W Boson Mass,” Phys. Rev. D **77**, 112001 (2008).
303. T. Aaltonen *et al.* (joint author), “First Measurement of the W Boson Mass in Run II of the Tevatron,” Phys. Rev. Lett. **99**, 151801 (2007).
304. T. Aaltonen *et al.* (joint author), “Observation and Mass Measurement of the Baryon Ξ_b^- ,” Phys. Rev. Lett. **99**, 052002 (2007).
305. T. Aaltonen *et al.* (joint author), “Search for a High-Mass Diphoton State and Limits on Randall-Sundrum Gravitons at CDF,” Phys. Rev. Lett. **99**, 171801 (2007).
306. T. Aaltonen *et al.* (joint author), “Search for Chargino-Neutralino Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. Lett. **99**, 191806 (2007).
307. T. Aaltonen *et al.* (joint author), “Search for Exclusive $\gamma\gamma$ Production in Hadron-Hadron Collisions,” Phys. Rev. Lett. **99**, 242002 (2007).
308. T. Aaltonen *et al.* (joint author), “Search for New Physics in High Mass Electron-Positron Events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. Lett. **99**, 171802 (2007).

309. T. Aaltonen *et al.* (joint author), “Search for Direct Pair Production of Supersymmetric Top and Supersymmetric Bottom Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **76**, 072010 (2007).
310. T. Aaltonen *et al.* (joint author), “Search for New Particles Leading to $Z +$ Jets Final States in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **76**, 072006 (2007).
311. T. Aaltonen *et al.* (secondary author), “Measurement of the $p\bar{p} \rightarrow t\bar{t}$ Production Cross Section and the Top Quark Mass at $\sqrt{s} = 1.96$ TeV in the All-Hadronic Decay Mode,” Phys. Rev. D **76**, 072009 (2007).
312. T. Aaltonen *et al.* (joint author), “First observation of Heavy Baryons Σ_b and Σ_b^* ,” Phys. Rev. Lett. **99**, 202001 (2007).
313. T. Aaltonen *et al.* (joint author), “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).
314. T. Aaltonen *et al.* (joint author), “Limits on Anomalous Triple Gauge Couplings in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **76**, 111103 (2007).
315. A. Abulencia *et al.* (joint author), “Polarization of J/ψ and $\psi(2S)$ Mesons Produced in $p\bar{p}$ Collisions at 1.96 TeV,” Phys. Rev. Lett. **99**, 132001 (2007).
316. A. Abulencia *et al.* (joint author), “Search for Heavy, Long-Lived Particles that Decay to Photons at CDF II,” Phys. Rev. Lett. **99**, 121801 (2007).
317. A. Abulencia *et al.* (joint author), “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).
318. *A. Abulencia *et al.* (primary author), “Precise Measurement of the Top Quark Mass in the Lepton + Jets Topology at CDF II,” Phys. Rev. Lett. **99**, 182002 (2007).
319. A. Abulencia *et al.* (joint author), “Observation of WZ Production,” Phys. Rev. Lett. **98**, 161801 (2007).
320. A. Abulencia *et al.* (joint author), “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).
321. A. Abulencia *et al.* (joint author), “Measurement of $\sigma(p\bar{p} \rightarrow Z) \times BR(Z \rightarrow 2\tau)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **75**, 092004 (2007).
322. A. Abulencia *et al.* (joint author), “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).
323. A. Abulencia *et al.* (joint author), “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).

324. A. Abulencia *et al.* (joint author), “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).
325. A. Abulencia *et al.* (joint author), “Measurement of the Helicity Fractions of W Bosons from Top Quark Decays using Fully Reconstructed $t\bar{t}$ Events with CDF II,” Phys. Rev. D **75**, 052001 (2007).
326. A. Abulencia *et al.* (joint author), “Analysis of the quantum numbers $J(PC)$ of the $X(3872)$,” Phys. Rev. Lett. **98**, 132002 (2007).
327. A. Abulencia *et al.* (joint author), “Measurement of the Top Quark Mass in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV Using the Decay Length Technique,” Phys. Rev. D **75**, 071102 (2007).
328. A. Abulencia *et al.* (joint author), “Search for W boson Decaying to Electron-Neutrino Pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **75**, 091101 (2007).
329. A. Abulencia *et al.* (joint author), “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).
330. A. Abulencia *et al.* (joint author), “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)].
331. A. Abulencia *et al.* (joint author), “Measurements of Inclusive W and Z Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” J. Phys. G **34**, 2457 (2007).
332. A. Abulencia *et al.* (joint author), “Measurement of the B^+ Production Cross-Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1960$ GeV,” Phys. Rev. D **75**, 012010 (2007).
333. T. Aaltonen *et al.* (joint author), “Measurement of the Top Quark Mass in All-Hadronic Decays in $p\bar{p}$ Collisions at CDF II,” Phys. Rev. Lett. **98**, 142001 (2007).
334. A. Abulencia *et al.* (joint author), “Precision Measurement of the Top Quark Mass from Dilepton Events at CDF II,” Phys. Rev. D **75**, 031105 (2007).
335. A. Abulencia *et al.* (joint author), “Search for Exotic $S=-2$ Baryons in Proton-Antiproton Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **75**, 032003 (2007).
336. A. Abulencia *et al.* (joint author), “Observation of Exclusive Electron-Positron Production in Hadron-Hadron Collisions,” Phys. Rev. Lett. **98**, 112001 (2007).
337. A. Abulencia *et al.* (joint author), “Measurement of the Ratios of Branching Fractions $B(B_s \rightarrow D_s\pi\pi\pi)/B(B_d \rightarrow D_d\pi\pi\pi)$ and $B(B_s \rightarrow D_s\pi) / B(B_d \rightarrow D_d\pi)$,” Phys. Rev. Lett. **98**, 061802 (2007).
338. A. Abulencia *et al.* (joint author), “Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \rightarrow J/\psi\Lambda_0$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **98**, 122001 (2007).

339. *A. Abulencia *et al.* (joint author), “*Observation of $B_s^0 - \bar{B}_s^0$ Oscillations,*” *Phys. Rev. Lett.* **97**, 242003 (2006).
340. A. Abulencia *et al.* (joint author), “*Search for $V + A$ Current in Top Quark Decay in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **98**, 072001 (2007).
341. A. Abulencia *et al.* (joint author), “*Observation of $B_s^0 \rightarrow K^+K^-$ and Measurements of Branching Fractions of Charmless Two-body Decays of B^0 and B_s^0 Mesons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 211802 (2006).
342. A. Abulencia *et al.* (joint author), “*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).
343. A. Abulencia *et al.* (joint author), “*Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV in the All Hadronic Decay Mode,*” *Phys. Rev. D* **74**, 072005 (2006).
344. A. Abulencia *et al.* (joint author), “*Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 082004 (2006).
345. A. Abulencia *et al.* (joint author), “*Measurement of the $B_s^0 - \bar{B}_s^0$ Oscillation Frequency,*” *Phys. Rev. Lett.* **97**, 062003 (2006).
346. A. Abulencia *et al.* (joint author), “*Search for Excited and Exotic Muons in the $\mu\gamma$ Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 191802 (2006).
347. A. Abulencia *et al.* (joint author), “*Measurement of the Ratio of Branching Fractions $B(D^0 \rightarrow K^+\pi^-) / B(D^0 \rightarrow K^-\pi^+)$ using the CDF II Detector,*” *Phys. Rev. D* **74**, 031109 (2006).
348. A. Abulencia *et al.* (joint author), “*Search for New Physics in Lepton + Photon + X Events with 305 pb^{-1} of $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 031801 (2006).
349. A. Abulencia *et al.* (joint author), “*Measurement of the b Jet Cross Section in Events with a Z Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. D* **74**, 032008 (2006).
350. A. Abulencia *et al.* (joint author), “*Top Quark Mass Measurement from Dilepton Events at CDF II with the Matrix Element Method,*” *Phys. Rev. D* **74**, 032009 (2006).
351. A. Abulencia *et al.* (joint author), “*Search for a Neutral Higgs Boson Decaying to a W Boson Pair in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 081802 (2006).
352. A. Abulencia *et al.* (joint author), “*Search for Large Extra Dimensions in the Production of Jets and Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **97**, 171802 (2006).
353. A. Abulencia *et al.* (joint author), “*Search for High-Mass Resonances Decaying to $e\mu$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,*” *Phys. Rev. Lett.* **96**, 211802 (2006).

354. A. Abulencia *et al.* (joint author), “Measurement of the B_c^+ Meson Lifetime using $B_c^+ \rightarrow J/\psi e^+ \nu_e$,” Phys. Rev. Lett. **97**, 012002 (2006).
355. A. Abulencia *et al.* (joint author), “Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using Missing Transverse Energy + Jet Events with Secondary Vertex b -Tagging,” Phys. Rev. Lett. **96**, 202002 (2006).
356. A. Abulencia *et al.* (joint author), “A Search for Scalar Bottom Quarks from Gluino Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 171802 (2006).
357. A. Abulencia *et al.* (joint author), “Search for $Z' \rightarrow e^+e^-$ using Dielectron Mass and Angular Distribution,” Phys. Rev. Lett. **96**, 211801 (2006).
358. A. Abulencia *et al.* (joint author), “Observation of $B_s^0 \rightarrow \psi(2S)\phi$ and Measurement of the Ratio of Branching Fractions $\mathcal{B}(B_s^0 \rightarrow \psi(2S)\phi)/\mathcal{B}(B_s^0 \rightarrow J/\psi\phi)$,” Phys. Rev. Lett. **96**, 231801 (2006).
359. *A. Abulencia *et al.* (joint author), “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).
360. A. Abulencia *et al.* (joint author), “Measurement of $\sigma_{\Lambda_b^0}/\sigma_{\bar{B}^0} \times B(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-)/B(\bar{B}^0 \rightarrow D^+ \pi^-)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **98**, 122002 (2007).
361. A. Abulencia *et al.* (secondary author), “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).
362. A. Abulencia *et al.* (joint author), “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).
363. A. Abulencia *et al.* (joint author), “Search for Second-Generation Scalar Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **74**, 071103 (2006).
364. A. Abulencia *et al.* (joint author), “Measurement of the Inclusive Jet Cross Section using the K_T Algorithm in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 122002 (2006).
365. A. Abulencia *et al.* (joint author), “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).
366. A. Abulencia *et al.* (joint author), “Measurement of Mass and Width of the Excited Charmed Meson States D^{10} and D^{2*0} ,” Phys. Rev. D **73**, 051104 (2006).
367. A. Abulencia *et al.* (joint author), “Top Quark Mass Measurement from Dilepton Events at CDF II,” Phys. Rev. Lett. **96**, 152002 (2006).

368. A. Abulencia *et al.* (joint author), “Measurement of the Helicity of W Bosons in Top Quark Decays,” Phys. Rev. D **73**, 111103 (2006).
369. A. Bhatti *et al.* (joint author), “Determination of the Jet Energy Scale at the Collider Detector at Fermilab,” Nucl. Instrum. Meth. A **566**, 375 (2006).
370. *A. Abulencia *et al.* (primary author), “Top Quark Mass Measurement using the Template Method in the Lepton + Jets Channel at CDF II,” Phys. Rev. D **73**, 032003 (2006).
371. A. Abulencia *et al.* (joint author), “A Search for $t \rightarrow \tau\nu q$ in $t\bar{t}$ Production,” Phys. Lett. B **639**, 172 (2006).
372. A. Abulencia *et al.* (joint author), “Direct Search for Dirac Magnetic Monopoles in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 201801 (2006).
373. A. Abulencia *et al.* (joint author), “Measurement of the Ratios of Branching Fractions $\mathcal{B}(B_s^0 \rightarrow D_s\pi^+)/\mathcal{B}(B^0 \rightarrow D^-\pi^+)$ and $\mathcal{B}(B^+ \rightarrow \bar{D}^0\pi^+)/\mathcal{B}(B^0 \rightarrow D^-\pi^+)$,” Phys. Rev. Lett. **96**, 191801 (2006).
374. D. Acosta *et al.* (joint author), “Measurement of b Hadron Masses in Exclusive J/ψ Decays with the CDF Detector,” Phys. Rev. Lett. **96**, 202001 (2006).
375. A. Abulencia *et al.* (joint author), “Search for H to $b\bar{b}$ Produced in Association with W Bosons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 081803 (2006).
376. *A. Abulencia *et al.* (primary author), “Precision Top Quark Mass Measurement in the Lepton + Jets Topology in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 022004 (2006).
377. A. Abulencia *et al.* (joint author), “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).
378. D. E. Acosta *et al.* (joint author), “ K_S^0 and Λ^0 Production Studies in $p\bar{p}$ Collisions at $\sqrt{s} = 1800$ GeV and 630 GeV,” Phys. Rev. D **72**, 052001 (2005). [arXiv:hep-ex/0504048].
379. A. Abulencia *et al.* (joint author), “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)].
380. A. Abulencia *et al.* (joint author), “Search for Neutral MSSM Higgs Bosons Decaying to τ pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 011802 (2006).
381. D. Acosta *et al.* (joint author), “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).
382. A. Abulencia *et al.* (joint author), “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).

383. D. Acosta *et al.* (joint author), “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).
384. D. Acosta *et al.* (joint author), “Search for New Physics Using High Mass τ Pairs from 1.96-TeV $p\bar{p}$ Collisions,” *Phys. Rev. Lett.* **95**, 131801 (2005).
385. D. Acosta *et al.* (joint author), “A Search for Supersymmetric Higgs Bosons in the $Di\text{-}\tau$ Decay Mode in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **72**, 072004 (2005).
386. D. Acosta *et al.* (joint author), “Search for First-Generation Scalar Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **72**, 051107 (2005).
387. D. Acosta *et al.* (joint author), “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).
388. D. Acosta *et al.* (joint author), “Measurement of $\mathcal{B}(t \rightarrow Wb)/\mathcal{B}(t \rightarrow Wq)$ at the Collider Detector at Fermilab,” *Phys. Rev. Lett.* **95**, 102002 (2005).
389. D. Acosta *et al.* (joint author), “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 $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **73**, 052002 (2006).
390. D. Acosta *et al.* (joint author), Search for Higgs bosons decaying into $b\bar{b}$ and produced in association with a vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV, *Phys. Rev. Lett.* **95**, 051801 (2005).
391. D. Acosta *et al.* (joint author), 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).
392. D. Acosta *et al.* (joint author), 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).
393. D. Acosta *et al.* (joint author), 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).
394. D. Acosta *et al.* (joint author), Search for anomalous kinematics in $t\bar{t}$ dilepton events at CDF II, *Phys. Rev. Lett.* **95**, 022001 (2005). D. Acosta *et al.* (joint author), Study of Jet Shapes in Inclusive Jet Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV, *Phys. Rev. D* **71**, 112002 (2005).
395. D. Acosta *et al.* (joint author), 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).
396. D. Acosta *et al.* (joint author), 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* **71**, 119901 (2005).

397. D. Acosta *et al.* (joint author), *Measurements of $b\bar{b}$ azimuthal production correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*, Phys. Rev. D **71**, 092001 (2005).
398. D. Acosta *et al.* (joint author), *Search for ZZ and ZW production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*, Phys. Rev. D **71**, 091105 (2005).
399. D. Acosta *et al.* (joint author), *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).
400. D. Acosta *et al.* (joint author), *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).
401. D. Acosta *et al.* (joint author), *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).
402. D. Acosta *et al.* (joint author), *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).
403. D. Acosta *et al.* (joint author), *Analysis of decay-time dependence of angular distributions in $B_s^0 \rightarrow J/\psi\phi$ and $B_d^0 \rightarrow J/\psi K^{*0}$ decays and measurement of the lifetime difference between B_s mass eigenstates*, Phys. Rev. Lett. **94**, 101803 (2005).
404. D. Acosta *et al.* (joint author), *Measurement of the W boson polarization in top decay at CDF at $\sqrt{s} = 1.96$ TeV*, Phys. Rev. D **71**, 031101 (2005) [Erratum-ibid. D **71**, 059901 (2005)].
405. D. Acosta *et al.* (joint author), *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).
406. D. Acosta *et al.* (joint author), *Search for electroweak single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*, Phys. Rev. D **71**, 012005 (2005).
407. D. Acosta *et al.* (joint author), *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).
408. D. Acosta *et al.* (joint author), *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).
409. D. Acosta *et al.* (joint author), *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).
410. D. Acosta *et al.* (joint author), *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).

411. D. Acosta *et al.* (joint author), *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).
412. D. Acosta *et al.* (joint author), *First measurements of inclusive W and Z cross sections from Run II of the Tevatron collider*, Phys. Rev. Lett. **94**, 091803 (2005).
413. D. Acosta *et al.* (joint author), *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).
414. D. Acosta *et al.* (joint author), *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).
415. D. Acosta *et al.* (secondary author), *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).
416. D. Acosta *et al.* (joint author), *Direct photon cross section with conversions at CDF*, Phys. Rev. D **70**, 074008 (2004).
417. D. Acosta *et al.* (joint author), *The underlying event in hard interactions at the Tevatron $p\bar{p}$ collider*, Phys. Rev. D **70**, 072002 (2004).
418. D. Acosta *et al.* (joint author), *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).
419. D. Acosta *et al.* (joint author), *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).
420. D. Acosta *et al.* (joint author), *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).
421. V.-M. Abazov *et al.* (joint author), *Combination of CDF and D0 Results on W Boson Mass and Width*, Phys. Rev. D **70**, 092008 (2004).
422. D. Acosta *et al.* (joint author), *Inclusive double pomeron exchange at the Fermilab Tevatron $p\bar{p}$ collider*, Phys. Rev. Lett. **93**, 14601 (2004).
423. D. Acosta *et al.* (joint author), *Optimized search for single top quark production at the Fermilab Tevatron*, Phys. Rev. D **69**, 052003 (2004).
424. *P. Sinervo, *Definition and treatment of systematic uncertainties in high energy physics and astrophysics*, eConf **C030908**, TUAT004 (December 2003).
425. D. Acosta *et al.* (joint author), *Measurement of the average time-integrated mixing probability of b -flavored hadrons produced at the Tevatron*, Phys. Rev. D **69**, 012002 (2004).
426. D. Acosta *et al.* (joint author), *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).

427. D. Acosta *et al.* (joint author), *Measurement of the mass difference $m(D_s^+) - m(D^+)$ at CDF II*, Phys. Rev. D **68**, 072004 (2003).
428. D. Acosta *et al.* (joint author), *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).
429. D. Acosta *et al.* (joint author), *Search for associated production of upsilon and vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, Phys. Rev. Lett. **90**, 221803 (2003).
430. D. Acosta *et al.* (joint author), *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).
431. D. Acosta *et al.* (joint author), *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).
432. D. Acosta *et al.* (joint author), *Search for long-lived charged massive particles in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, Phys. Rev. Lett. **90**, 131801 (2003).
433. D. Acosta *et al.* (joint author), *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).
434. **Search for a W' boson decaying to a top and bottom quark pair in 1.8 TeV $p\bar{p}$ collisions*, D. Acosta *et al.* (primary author), Phys. Rev. Lett. **90**, 081802 (2003).
435. *Cross section for forward J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, D. Acosta *et al.* (joint author), Phys. Rev. D **66**, 092001 (2002).
436. *Search for radiative b-hadron decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, D. Acosta *et al.* (joint author), Phys. Rev. D **66**, 112002 (2002).
437. **Signal Significance in Particle Physics*, P. K. Sinervo, hep-ex/0208005 (August 2002). Published in the Proceedings of the Conference on Advanced Statistical Techniques in Particle Physics, Durham England, Mar 16-22 (2002).
438. *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*, D. Acosta *et al.* (joint author), Phys. Rev. D **66**, 032002 (2002).
439. *Branching ratio measurements of exclusive B^+ decays to charmonium with the Collider Detector at Fermilab*, D. Acosta *et al.* (joint author), Phys. Rev. D **66**, 052005 (2002).
440. *Search for new physics in photon-lepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, D. Acosta *et al.* (joint author), Phys. Rev. D **66**, 012004 (2002).

441. *Measurement of B-meson lifetimes using fully reconstructed B decays produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. D **65**, 092009 (2002).
442. *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,*
D. Acosta *et al.* (joint author), Phys. Rev. Lett. **89**, 281801 (2002).
443. *Charged jet evolution and the underlying event in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Affolder *et al.* (joint author), Phys. Rev. D **65**, 092002 (2002).
444. *Search for new physics in photon lepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. Lett. **89**, 041802 (2002).
445. *Diffractive dijet production at $\sqrt{s} = 630$ GeV and 1800 GeV at the Fermilab Tevatron,*
D. Affolder *et al.* (joint author), Phys. Rev. Lett. **88**, 151802 (2002).
446. *Comparison of the isolated direct photon cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV and 0.63 TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. D **65**, 112003 (2002).
447. *Search for the decay $B_s \rightarrow \mu^+ \mu^- \phi$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. D **65**, 111101 (2002).
448. * *Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (secondary author), Phys. Rev. D **65**, 091102 (2002).
449. *Upsilon production and polarization in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. Lett. **88**, 161802 (2002).
450. *Soft and hard interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV and 630 GeV,*
D. Acosta *et al.* (joint author), Phys. Rev. D **65**, 072005 (2002).
451. *Study of the heavy flavor content of jets produced in association with W bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (secondary author), Phys. Rev. D **65**, 052007 (2002).
452. *Measurement of the B^+ total cross section and B^+ differential cross section $d\sigma/dp_T$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
D. Acosta *et al.* (joint author), Phys. Rev. D **65**, 052005 (2002).
453. *Search for new heavy particles in the WZ^0 final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **88**, 071806 (2002).
454. *A Study of $B^0 \rightarrow J/\psi K^{*0} \pi^+ \pi^-$ decays with the Collider Detector at Fermilab,*
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **88**, 071801 (2002).

455. *Measurement of the strong coupling constant from inclusive jet production at the Tevatron $p\bar{p}$ collider*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **88**, 042001 (2002).
456. *Observation of diffractive J/ψ production at the Fermilab Tevatron*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **87**, 241802 (2001).
457. *Searches for new physics in events with a photon and b -quark jet at CDF*, T. Affolder *et al.* (joint author), Phys. Rev. D **65**, 052006 (2002).
458. *Search for gluinos and squarks using like-sign dileptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **87**, 251803 (2001).
459. *Cross section and heavy quark composition of $\gamma + \mu$ events produced in $p\bar{p}$ collisions*, T. Affolder *et al.* (joint author), Phys. Rev. D **65**, 012003 (2002).
460. *Search for gluinos and scalar quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the missing energy plus multijets signature*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **88**, 041801 (2002).
461. *Search for quark lepton compositeness and a heavy W' boson using the $e\nu_e$ channel in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **87**, 231803 (2001).
462. *Charged particle multiplicity in jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **87**, 211804 (2001).
463. *Double diffraction dissociation at the Fermilab Tevatron collider*, T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **87**, 141802 (2001).
464. *Measurement of $d\sigma/dM$ Forward-Backward Charge Asymmetry for High Mass Drell-Yan e^+e^- Pairs from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **87**, 131802 (2001).
465. **Measurement of the Top Quark P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (primary author), Phys. Rev. Lett. **87**, 102001 (2001).
466. *Search for narrow diphoton resonances and for $\gamma\gamma + W/Z$ signatures in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. D **64**, 092002 (2001).
467. *Observation of Orbitally Excited B Mesons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. D **64**, 072002 (2001).
468. *Measurement of the W boson mass with the Collider Detector at Fermilab*, T. Affolder *et al.* (secondary author), Phys. Rev. D **64**, 052001 (2001).
469. **Measurement of the $t\bar{t}$ cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. D **64**, 032002 (2001).

470. *Measurement of the inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. D **64**, 032001 (2001).
Erratum, *Ibid*, Phys. Rev. D **65**, 039903 (2001).
471. *Measurement of the two-jet differential cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. D **64**, 012001 (2001).
472. *Search for the Neutral Supersymmetric Higgs Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **86**, 4472 (2001).
473. *Production of χ_1 and χ_2 in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **86**, 3963 (2001).
474. *First Measurement of the Ratio $\mathcal{B}(t \rightarrow Wb)/\mathcal{B}(t \rightarrow Wq)$ and Associated Limit on the CKM Element $|V_{tb}|$* , T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **86**, 3233 (2001).
475. *Search for the supersymmetric partner of the top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. D **63**, 091101 (2001).
476. *Test of enhanced leading order QCD in W boson + jet events from 1.8 TeV $p\bar{p}$ collisions*, T. Affolder *et al.* (joint author), Phys. Rev. D **63**, 072003 (2001).
477. **Measurement of the top quark mass with the Collider Detector at Fermilab*, T. Affolder *et al.* (joint author), Phys. Rev. D. **63**, 032003 (2001).
478. *Measurement of $d\sigma/dy$ for high mass Drell-Yan e^+e^- pairs from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. D. **63**, 032003 (2001).
479. *Measurement of the Decay Amplitudes of $B^0 \rightarrow J/\psi K^*$ and $B_s^0 \rightarrow J/\psi \phi$ Decays*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 4668-4673 (2000).
480. *Dijet Production by Double Pomeron Exchange at the Fermilab Tevatron*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 4215-4220 (2000).
481. *Direct Measurement of the W Boson Width in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 3347-3352 (2000).
482. *Measurement of the J/ψ and $\psi(2S)$ Polarization in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 2886-2891 (2000).
483. *Search for Second and Third Generation Leptoquarks Including Production via Technicolor Interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 2056-2061 (2000).
484. *Search for New Particles Decaying to $t\bar{t}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. Lett. **85**, 2062-2067 (2000).

485. *Limits on Gravitino Production and New Processes with Large Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **85**, 1378-1383 (2000).
486. *Search for the Charged Higgs Boson in the Decays of Top Quark Pairs in $e\tau$ and $\mu\tau$ Channels at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (secondary author), Phys. Rev. D **62**, 012004 (2000).
487. **Search for a W' Boson via the Decay Mode $W' \rightarrow \mu\nu_\mu$ in 1.8-TeV $p\bar{p}$ Collisions*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **84**, 5716-5721 (2000).
488. *Search for Scalar Top and Scalar Bottom Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 5704-5709 (2000).
489. *Search for Scalar Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 5273-5278 (2000).
490. *Diffractive Dijets with a Leading Antiproton in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 5043-5048 (2000).
491. *Measurement of the Differential Dijet Mass Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. D **61**, 091101 (2000).
492. *A measurement of $\sin(2\beta)$ from $B \rightarrow J/\psi K_s^0$ with the CDF detector*,
T. Affolder *et al.* (joint author), Phys. Rev. D **61**, 072005 (2000).
493. *Production of Upsilon(1S) Mesons from χ_b Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 2094-2099 (2000).
494. **Measurement of b Quark Fragmentation Fractions in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (primary author), Phys. Rev. Lett. **84**, 1663-1668 (2000).
495. *Search for Color Singlet Technicolor Particles in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 1110-1115 (2000).
496. *The Transverse Momentum and Total Cross Section of e^+e^- Pairs in the Z^0 Boson Region from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
T. Affolder *et al.* (primary author), Phys. Rev. Lett. **84**, 845-850 (2000).
497. *Measurement of $B\bar{B}$ rapidity correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D. **61**, 032001 (2000).
498. *Search for a Fourth Generation Quark More Massive Than the Z^0 Boson in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 835-840 (2000).
499. *Observation of Diffractive Beauty Production at the Fermilab Tevatron*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 232-237 (2000).

500. *Measurement of the Helicity of W Bosons in Top Quark Decays*,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **84**, 216-221 (2000).
501. *Measurement of the $B^0\bar{B}^0$ Oscillation Frequency Using l^-D^{*+} Pairs in Lepton Flavour Tags*,
F. Abe *et al.* (joint author), Phys. Rev. D. **60**, 112004 (1999).
502. **Measurement of b quark fragmentation fractions in the production of strange and light B mesons in proton anti-proton collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. D. **60**, 092005 (1999).
503. *Measurement of the associated $\gamma + \mu^\pm$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D. **60**, 092003 (1999).
504. *Search for the Flavour-Changing Neutral Current Decays $B^+ \rightarrow \mu^+\mu^-K^+$ and $B^0 \rightarrow \mu^+\mu^-K^{*0}$* ,
T. Affolder *et al.* (joint author), Phys. Rev. Lett. **83**, 3378-3383 (1999).
505. *CVD Diamond Pixel Detectors for LHC Experiments*,
R. Wedenig *et al.* (secondary author), Nucl. Phys. Proc. Suppl. **78**, 497-504 (1999).
506. **The first bump bonded pixel detectors on CVD diamond*,
W. Adam *et al.* (secondary author), Nucl. Instrum. Methods **A43**, 326-335 (1999).
507. *Search for a Technicolor ω_t Particle in Events with a Photon and a b Quark Jet at CDF*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **83**, 3124-3129 (1999).
508. *Measurement of $B^0\bar{B}^0$ flavour oscillations using jet charge and lepton flavour tagging in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D. **60**, 072003 (1999).
509. *Search for R parity Violating Supersymmetry using Like-Sign Di-electrons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **83**, 2133-2138 (1999).
510. *Measurement of $B^0\bar{B}^0$ oscillation frequency using dimuon data in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D. **60**, 051101 (1999).
511. *A Search for $B_s^0\bar{B}_s^0$ Oscillations Using the Semileptonic Decay $B_s^0 \rightarrow \phi l X \nu$* ,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **82**, 3576-3580 (1999).
512. **Search for new physics in diphoton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (secondary author), Phys. Rev. D **59**, 092002 (1999).
513. **Kinematics of $t\bar{t}$ events at CDF*,
F. Abe *et al.* (secondary author), Phys. Rev. D **59**, 092001 (1999).
514. *A Search for Third Generation Leptoquarks from Technicolor Models in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **82**, 3206 (1999).

515. *Erratum: Measurement of the Top Quark Mass with the Collider Detector at Fermilab*, F. Abe *et al.* (secondary author), Phys. Rev. Lett. **82**, 2808-2809 (1999).
516. *Search for New Particles Decaying to $B\bar{B}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **82**, 2038-2043 (1999).
517. *Measurement of Z^0 and Drell-Yan production cross-section using dimuons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **59**, 052002 (1999).
518. **Measurement of the top quark mass with the Collider Detector at Fermilab*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **82**, 271 (1999).
519. *Measurement of the B_s^0 meson lifetime using Semileptonic decays*, F. Abe. *et al.* (joint author), Phys. Rev. D **59**, 032004 (1999).
520. *Measurement of the $B^0\bar{B}^0$ flavor oscillation frequency and study of same side flavor tagging of B mesons in proton anti-proton collisions*, F. Abe. *et al.* (joint author), Phys. Rev. D **59**, 032001 (1999).
521. *Measurement of the lepton charge asymmetry in W boson decays produced in $p\bar{p}$ collisions*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 5754 (1998).
522. *Events with a rapidity gap between jets in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 5278 (1998).
523. *Search for Higgs Bosons Produced in Association with a Vector Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 5748-5753 (1998).
524. *Search for the decays $B_s^0, B^0 \rightarrow e^+\mu^-$ and Pati-Salam leptoquarks*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 5742 (1998).
525. *Observation of the B_c^+ Meson in Proton Anti-proton Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **58**, 112004 (1998).
526. *Improved measurement of the B meson lifetimes using semi-leptonic decays*, F. Abe *et al.* (joint author), Phys. Rev. D **58**, 092002 (1998).
527. *Search for the Rare Decay $W^+ \rightarrow D_s^+\gamma$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **58**, 091101 (1998).
528. **Measurement of the CP Violation Parameter $\sin(2\beta)$ in $B^0\bar{B}^0 \rightarrow J/\psi K$ Decays*, F. Abe. *et al.* (joint author), Phys. Rev. Lett. **81**, 5513-5518 (1998).
529. *Search for Second Generation Leptoquarks in the Dimuon Plus Dijet Channel of $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe. *et al.* (joint author), Phys. Rev. Lett. **81**, 4806-4811 (1998).
530. *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*, F. Abe *et al.* (primary author), Phys. Rev. D **58**, 072001 (1998).

531. *Search for Long-lived Parents of Z^0 Bosons in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D **58**, 051102 (1998).
532. *Search for the Rare Decay $W^+ \rightarrow D_s^+ \gamma$ in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D **58**, 031101 (1998).
533. *Searches for New Physics in Diphoton Events in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 1791-1796 (1998).
534. *Measurement of the $\sigma(W + \geq 1 \text{ jet})/\sigma(W)$ Cross Section Ratio from $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **81**, 1367-1372 (1998).
535. *Measurement of B Hadron Lifetimes Using J/ψ Final States at CDF*,
F. Abe *et al.* (joint author), Phys. Rev. D **57**, 5382-5401 (1998).
536. *Properties of Jets in W Boson Events from 1.8 TeV $\bar{p}p$ Collisions*,
F. Abe *et al.* (joint author), Phys. Rev. D **57**, 4760-4765 (1997).
537. *Search for the decays $B_d^0 \rightarrow \mu^+ \mu^-$ and $B_s^0 \rightarrow \mu^+ \mu^-$ in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D **57**, R3811-3816 (1998).
538. *The jet pseudorapidity distribution in direct photon events in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D **57**, 1359-1365 (1998).
539. *Observation of Hadronic W Decays in $t\bar{t}$ Events with the Collider Detector at Fermilab*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 5720-5725 (1998).
540. *Search for Chargino-Neutralino Associated Production at the Fermilab Tevatron*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 5275-5280 (1998).
541. *Measurement of the Differential Cross Section for Events with Large Total Transverse Energy in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 3456-3461 (1998).
542. *Measurement of the Top Quark Mass*,
F. Abe *et al.* (secondary author), Phys. Rev. Lett. **80**, 2767-2772 (1998).
543. *Measurement of the Top Quark Mass and $t\bar{t}$ Production Cross Section from Dilepton Events at the Collider Detector at Fermilab*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 2779-2784 (1998).
544. *Measurement of the $t\bar{t}$ Production Cross Section in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (secondary author), Phys. Rev. Lett. **80**, 2773-2778 (1998).
545. *Search for Flavor Changing Neutral Current Decays of the Top Quark in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 2525-2530 (1998).

546. *Measurement of the $B^0 - \bar{B}^0$ Oscillation Frequency Using $\pi - B$ Meson Charge-Flavor Correlations in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 2057-2062 (1998).
547. *Dijet Production by Color-Singlet Exchange at the Fermilab Tevatron*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **80**, 1156-1161 (1998).
548. *Properties of photon plus two jet events in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **57**, 67-77 (1997).
549. *Search for First Generation Leptoquark Pair Production in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 4327-4332 (1997).
550. *Search for New Particles Decaying into $b\bar{b}$ Produced in Association with W^+ Bosons Decaying into $e\nu_e$ or $\mu\nu_\mu$ at the Tevatron*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 3819-3824 (1997).
551. *The $\mu\tau$ and $e\tau$ Decays of Top Quark Pairs Produced in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 3585-3590 (1997).
552. *Measurement of Diffractive Dijet Production at the Tevatron*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 2636-2641 (1997).
553. *Limits on Quark-Lepton Compositeness Scales from Dileptons Produced in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 2198-2203 (1997).
554. *Search for New Gauge Bosons Decaying into Dileptons in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 2192-2197 (1997).
555. *Double Parton Scattering in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **56**, 3811-3832 (1997).
556. *First Observation of the All Hadronic Decay of $t\bar{t}$ Pairs*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 1992-1997 (1997).
557. *Measurement of Double Parton Scattering in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 584-589 (1997).
558. *Properties of Jets in W Boson Events from 1.8 TeV $\bar{p}p$ Collisions*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 4760-4765 (1997).
559. *Properties of Six-Jet Events with Large Six-Jet Mass at the Fermilab $p\bar{p}$ Collider*, F. Abe *et al.* (joint author), Phys. Rev. D **56**, 2532-2543 (1997).
560. *Production of J/ψ Mesons from χ_c Meson Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 578-583 (1997).

561. *J/ψ and ψ(2S) Production in p̄p Collisions at √s = 1.8 TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **79**, 572-577 (1997).
562. *Search for Charged Higgs Decays of the Top Quark using Hadronic Decays of the Tau Lepton*,
F. Abe *et al.* (secondary author), Phys. Rev. Lett. **79**, 357-362 (1997).
563. *Search for Gluinos and Squarks at the Fermilab Tevatron Collider*,
F. Abe *et al.* (joint author), Phys. Rev. D **56**, R1357-R1362 (1997).
564. *Search for W⁺W⁻ Production in p̄p Collisions at √s = 1.8 TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **78**, 4536-4540 (1997).
565. *Search for New Particles Decaying to Dijets at CDF*,
F. Abe *et al.* (joint author), Phys. Rev. D **55**, R5263-R5268 (1997).
566. *Search for Third Generation Leptoquarks in p̄p Collisions at √s = 1.8 TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **78**, 2906-2911 (1997).
567. *Observation of Diffractive W Boson Production at the Fermilab Tevatron*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **78**, 2698-2703 (1997).
568. *Measurement of B⁰ \overline{B}^0 Production Correlations, B⁰ \overline{B}^0 Mixing, and a limit on ϵ_B in p̄p Collisions at √s = 1.8 TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **55**, 2546-2558 (1997).
569. *Observation of $\Lambda_b^0 \rightarrow J/\psi\Lambda$ at the Fermilab p̄p Collider*,
F. Abe *et al.* (joint author), Phys. Rev. D **55**, 1142-1152 (1997).
570. *Measurement of b \overline{b} production correlations, B⁰ \overline{B}^0 mixing, and a limit on ϵ_B in p̄p collisions at √s = 1.8 TeV*,
F. Abe *et al.* (joint author), Phys. Rev. D **55**, 2546-2558 (1997).
571. *Measurement of Dijet Angular Distributions by the Collider Detector at Fermilab*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 5336-5341 (1996).
572. *Measurement of the Branching Fraction $\mathcal{B}(B_u^+ \rightarrow J/\psi\pi^+)$ and Search for $B_c^+ \rightarrow J/\psi\pi^+$* ,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 5176-5181 (1996).
573. *Measurement of the γD^{*-} Cross Section in p̄p Collisions at √s = 1.8 TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 5005-5010 (1996).
574. **Ratios of bottom meson branching fractions involving J/ψ mesons and determination of b quark fragmentation fractions*, F. Abe *et al.* (primary author), Phys. Rev. D **54**, 6596-6609 (1996).
575. *Forward-Backward Charge Asymmetry of Electron Pairs Above the Z⁰ Pole*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 2616-2621 (1996).

576. *Measurement of the Lifetime of the B_s^0 Meson Using the Exclusive Decay Mode $B_s^0 \rightarrow J/\psi\phi$,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 1945-1949 (1996).
577. *Further properties of high mass multi-jet events at the Fermilab $p\bar{p}$ Collider,*
F. Abe *et al.* (joint author), Phys. Rev. D **54**, 4221-4233 (1996).
578. *Measurement of the Λ_b^0 Lifetime Using $\Lambda_b^0 \rightarrow \Lambda_c^+ l \nu_l$,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 1439-1443 (1996).
579. *Properties of Jets in Z Boson Events from 1.8 TeV $p\bar{p}$ Collisions,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 448-453 (1996).
580. *Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **77**, 438-443 (1996).
581. *Search for charged Higgs boson decays of the top quark using hadronic τ decays,*
F. Abe *et al.* (joint author), Phys. Rev. D **54**, 735-742 (1996).
582. *Search for Flavor Changing Neutral Current B Meson Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 4675-4680 (1996).
583. *Measurement of the B^- and \bar{B}^0 Meson Lifetimes Using Semileptonic Decays,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 4462-4467 (1996).
584. *Search for Chargino-Neutralino Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 4307-4311 (1996).
585. *Measurement of $\sigma B(W \rightarrow e\nu)$ and $\sigma B(Z^0 \rightarrow e^+e^-)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 3070-3075 (1996).
586. *Search for the Rare Decay $W^\pm \rightarrow \pi^\pm + \gamma$,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 2852-2857 (1996).
587. *Measurement of the mass of the B_s^0 meson,*
F. Abe *et al.* (joint author), Phys. Rev. D **53**, 3496-3505 (1996).
588. *Reconstruction of $B^0 \rightarrow J/\psi K_s^0$ and Measurement of the Ratios of Branching Ratios Involving $B \rightarrow J/\psi K^*$,* F. Abe *et al.* (secondary author), Phys. Rev. Lett. **76**, 2015-2020 (1996).
589. *Search for Gluino and Squark Cascade Decays at the Fermilab Tevatron Collider,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **76**, 2006-2010 (1996).
590. *Measurement of Correlated $\mu\bar{b}$ Jet Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV ,*
F. Abe *et al.* (joint author), Phys. Rev. D **53**, 1051-1065 (1996).
591. *Upsilon Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV ,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 4358-4362 (1995).

592. *Measurement of the Polarization in the Decays $B^{\circ} \rightarrow J/\psi K^{*\circ}$ and $B_s^{\circ} \rightarrow J/\psi \phi$,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 3068-3072 (1995).
593. *Measurement of the B meson and b Quark Cross Sections at $\sqrt{s} = 1.8$ TeV Using the exclusive decay $B^{\circ} \rightarrow J/\psi K^{*}(892)^{\circ}$,*
F. Abe *et al.* (joint author), Phys. Rev. D **50**, 4252-4257 (1995).
594. *Study of $t\bar{t}$ Production in $p\bar{p}$ Collisions Using Total Transverse Energy,*
F. Abe *et al.* (secondary author), Phys. Rev. Lett. **75**, 3997-4001 (1995).
595. *Measurement of the W boson mass,*
F. Abe *et al.* (joint author), Phys. Rev. D **52**, 4784-4827 (1995).
596. *Identification of top quarks using kinematical variables,*
F. Abe *et al.* (joint author), Phys. Rev. D **52**, R2605-R2609 (1995).
597. *Measurement of the ratio $\sigma B(p\bar{p} \rightarrow W \rightarrow e\nu)/\sigma B(p\bar{p} \rightarrow Z^{\circ} \rightarrow ee)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV,* F. Abe *et al.* (joint author), Phys. Rev. **D52**, 2624-2655 (1995).
598. *Measurement of the B Meson Differential Cross Section, $d\sigma/dp_T$, in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 1451-1455 (1995).
599. *Limits on WWZ and WW γ Couplings from WW and WZ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 1017-1022 (1995).
600. *A Search for Second Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 1012-1016 (1995).
601. *Search for Squarks and Gluinos via Radiative Decays of Neutralinos in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 613-617 (1995).
602. *Properties of High Mass Multi-Jet Events at the Fermilab $p\bar{p}$ Collider,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 608-612 (1995).
603. **Measurement of the W Boson Mass,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **75**, 11-16 (1995).
604. *Measurement of the B_s Meson Lifetime,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 4988-4993 (1995).
605. *Search for New Particles Decaying to Dijets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 3538-3543 (1995).
606. *Kinematic evidence for top quark pair production in $W+$ multijet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (secondary author), Phys. Rev. D **51**, 4623-4637 (1995).
607. *Search for Charged Bosons Heavier than the W Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1800$ GeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 2900-2904 (1995).

608. **Observation of Top Quark Production in $p\bar{p}$ Collisions with the Collider Detector at Fermilab*, F. Abe *et al.* (primary author), Phys. Rev. Lett. **74**, 2626-2631 (1995).
609. *Limits on Z-Photon Couplings from $p\bar{p}$ Interactions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 1941-1945 (1995).
610. *Measurement of W-photon Couplings with CDF in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 1936-1940 (1995).
611. *Observation of Rapidity Gaps in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 855-859 (1995).
612. *The Charge Asymmetry in W Boson Decays Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 850-854 (1995).
613. *Search for new gauge bosons decaying into dielectrons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. D **51**, 949-953 (1995).
614. *A Direct Measurement of the W Boson Width Γ_W* , F. Abe *et al.* (joint author), Phys. Rev. Lett. **74**, 341-345 (1995).
615. *Search for the Top Quark Decaying to a Charged Higgs Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **73**, 2667-2671 (1994).
616. *Precision Measurement of the Prompt Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **73**, 2662-2666 (1994).
617. *Evidence for color coherence in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. **D50**, 5562-5579 (1994).
618. *Measurement of the antiproton-proton total cross section at $\sqrt{s} = 546$ and 1800 GeV*, F. Abe *et al.* (joint author), Phys. Rev. **D50**, 5550-5561 (1994).
619. *Measurement of $p\bar{p}$ single diffraction dissociation at $\sqrt{s} = 546$ and 1800 GeV*, F. Abe *et al.* (joint author), Phys. Rev. **D50**, 5535-5549 (1994).
620. *Measurement of small angle antiproton-proton elastic scattering at $\sqrt{s} = 546$ and 1800 GeV*, F. Abe *et al.* (joint author), Phys. Rev. **D50**, 5518-5534 (1994).
621. *W Boson + Jet Angular Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **73**, 2296-2300 (1994).
622. *Measurement of the B meson and b quark cross sections at $\sqrt{s} = 1.8$ TeV using the exclusive decay $B^0 \rightarrow J/\psi K^*(892)^0$* , F. Abe *et al.* (joint author), Phys. Rev. **D50**, 4252-4257 (1994).
623. **Evidence for top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (primary author), Phys. Rev. **D50**, 2966-3026 (1994).

624. *Evidence for Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **73**, 225-231 (1994).
625. *Measurement of the Ratio $\sigma B(W \rightarrow e\nu_e)/\sigma B(Z^0 \rightarrow e^+e^-)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **73**, 220-224 (1994).
626. *Measurement of the B^+ and B^0 Meson Lifetimes*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **72**, 3456-3460 (1994).
627. *Search for Excited Quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **72**, 3004-3008 (1994).
628. *A Search for the Top Quark Decaying to a Charged Higgs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **72**, 1977-1981 (1994).
629. *Measurement of Drell-Yan electron and muon pair differential cross sections in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. **D49**, 1-6 (1994).
630. *Measurement of the Average Lifetime of B Hadrons Produced in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 3421-3426 (1993).
631. *Search for first-generation leptoquarks in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D48**, R3939-R3944 (1993).
632. *Inclusive χ_c and B Quark Production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 2537-2541 (1993).
633. *Search for Quark Compositeness, Axiguons, and Heavy Particles Using the Dijet Invariant Mass Spectrum Observed in $\bar{p}p$ Collisions*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 2542-2546 (1993).
634. *Measurement of Bottom Quark Production in 1.8 TeV $\bar{p}p$ Collisions Using Muons from b-Quark Decays*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 2396-2400 (1993).
635. *Prompt photon cross section measurement in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D48**, 2998-3025 (1993).
636. *Observation of the Decay $B_s^0 \rightarrow J/\psi\phi$ in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **71**, 1685-1689 (1993).
637. *Center-of-Mass Angular Distribution of Prompt Photons Produced in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 679-683 (1993).
638. *Measurement of the dijet mass distribution in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D48**, 998-1008 (1993).

639. *Evidence for Two $J^P = 2^-$ Strange Meson States in the $K_2(1770)$ Region*,
D. Aston *et al.* (joint author), Phys. Lett. **B308**, 186-192 (1993).
640. *Measurement of the Bottom-Quark Production Cross Section Using Semileptonic Decay Electrons in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **71**, 500-504 (1993).
641. *Measurement of Jet Multiplicity in W Events Produced in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **70**, 4042-4046 (1993).
642. *Study of four-jet events and evidence for double parton interactions in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. **D47**, 4857-4871 (1993).
643. *Measurement of the Cross Section for the Production of Two Isolated Prompt Photons in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **70**, 2232-2236 (1993).
644. *Search for $\Lambda_b \rightarrow J/\Psi\Lambda^0$ in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D47**, R2639-R2643 (1993).
645. *Comparison of Jet Production in $\bar{p}p$ Collisions at $\sqrt{s} = 546$ GeV and 1800 GeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **70**, 1376-1380 (1993).
646. *A measurement of Jet Shapes in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **70**, 713-717 (1993).
647. *Inclusive J/Ψ , $\Psi(2S)$, and b -Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **69**, 3704-3708 (1992).
648. *Search for Squarks and Gluinos from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **69**, 3439-3443 (1992).
649. *Dijet Angular Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **69**, 2896-2900 (1992).
650. *Limit on the Rare Decay $W^\pm \rightarrow \gamma\pi^\pm$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **69**, 2160-2163 (1992).
651. *Limits on the production of massive stable charged particles*,
F. Abe *et al.* (joint author), Phys. Rev. **D46**, 1889-1894 (1992).
652. *A Measurement of the Production and Muonic Decay Rate of W and Z Bosons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **69**, 28-32 (1992).
653. *Measurement of the B -Meson and b -Quark Cross Sections at $\sqrt{s} = 1.8$ TeV Using the Exclusive Decay $B^\pm \rightarrow J/\Psi K^\pm$* , F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 3403-3407 (1992).

654. *Measurement of the Ratio $B(W \rightarrow \tau\nu)/B(W \rightarrow e\nu)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 3398-3402 (1992).
655. **Limit on the top quark mass from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (primary author), Phys. Rev. **D45**, 3921-3948 (1992).
656. *Measurement of the Isolated Prompt Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 2734-2738 (1992).
657. *Properties of events with large total transverse energy produced in proton-antiproton collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (joint author), Phys. Rev. **D45**, 2249-2263 (1992).
658. *A Search for New Gauge Bosons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 1463-1467 (1992).
659. *Lepton Asymmetry in W Decays from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 1458-1462 (1992).
660. *Topology of three-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. **D45**, 1448-1458 (1992).
661. *Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 1104-1108 (1992).
662. *Lower Limit on the Top Quark Mass from Events with Two Leptons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (joint author), Phys. Rev. Lett. **68**, 447-451 (1992).
663. *Measurement of $B^0\bar{B}^0$ Mixing at the Fermilab Tevatron Collider,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **67**, 3351-3355 (1991).
664. *Search for $W' \rightarrow e\nu$ and $W' \rightarrow \mu\nu$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **67**, 2609-2613 (1991).
665. *Measurement of the Z -boson p_T distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **67**, 2937-2941 (1991).
666. *Performance and System Flexibility of the CDF Hardware Event Builder,*
T. M. Shaw, K. Schurecht and P. K. Sinervo, FERMILAB-CONF-91-314 (Nov 1991). To be published in the proceedings of the IEEE Nuclear Science Symposium, Sante Fe, NM (Nov 1991).
667. *Measurement of the e^+e^- invariant mass distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **67**, 2418-2422 (1991).
668. *Determination of $\sin^2\bar{\theta}_W$ from the Forward-Backward Asymmetry in $p\bar{p} \rightarrow Z^0 X \rightarrow e^+e^- X$ Interactions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (joint author), Phys. Rev. Lett. **67**, 1502-1506 (1991).

669. *Measurement of QCD jet broadening in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D44**, 601-616 (1991).
670. *Measurement of the W-Boson P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **66**, 2951-2955 (1991).
671. *Measurement of $\sigma B(W \rightarrow e\nu)$ and $\sigma B(Z^0 \rightarrow e^+e^-)$ at $\sqrt{s} = 1800$ GeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D44**, 29-52 (1991).
672. *Measurement of the W-Boson mass in 1.8 TeV $p\bar{p}$ collisions*,
F. Abe *et al.* (joint author), Phys. Rev. **D43**, 2070-2093 (1991).
673. **Top Quark Search in the Electron + Jets Channel in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV*, F. Abe *et al.* (primary author), Phys. Rev. **D43**, 664-686 (1991).
674. *Measurement of the W-Boson Mass*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **65**, 2243-2246 (1990).
675. *Pseudorapidity Distributions of Charged Particles Produced in $p\bar{p}$ Interactions at $\sqrt{s} = 630$ and 1800 GeV*, F. Abe *et al.* (joint author), Phys. Rev. **D41**, 2330-2333 (1990).
676. *Search for a Light Higgs Boson at the Tevatron Proton-Antiproton Collider*,
F. Abe *et al.* (joint author), Phys. Rev. **D41**, 1717-1720 (1990).
677. *Two Jet Invariant Mass Distribution at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D41**, 1722-1725 (1990).
678. *Measurement of D^* Production in Jets from $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **64**, 348-351 (1990).
679. *Two-Jet Differential Cross Section in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **64**, 157-160 (1990).
680. *Measurement of the Ratio $\sigma(W \rightarrow e\nu)/\sigma(Z \rightarrow ee)$ in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8$ TeV at the Fermilab Tevatron Collider*, F. Abe *et al.* (joint author), Phys. Rev. Lett. **64**, 152-155 (1990).
681. *A Search for New Heavy Quarks in Electron-Muon Events at the Fermilab Tevatron Collider*,
F. Abe *et al.* (secondary author), Phys. Rev. Lett. **64**, 197-200 (1990).
682. **A Search for the Top Quark in the Reaction $\bar{p}p \rightarrow$ Electron + Jets at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (primary author), Phys. Rev. Lett. **64**, 192-196 (1990).
683. *K_s^0 Production in $\bar{p}p$ Interactions at $\sqrt{s} = 630$ and 1800 GeV*,
F. Abe *et al.* (joint author), Phys. Rev. **D40**, 3791-3794 (1989).
684. *Measurement of the Mass and Width of the Z^0 Boson at the Fermilab Tevatron*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **63**, 720-723 (1989).

685. *Search for Heavy Stable Particles at the Fermilab Collider*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **63**, 1447-1450 (1989).
686. *Dijet Angular Distributions from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **62**, 3020-3023 (1989).
687. *Limits on the Masses of Supersymmetric Particles from 1.8 TeV $p\bar{p}$ Collisions*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **62**, 1825-1828 (1989).
688. *Fast Data Acquisition with the CDF Event Builder*,
P. K. Sinervo *et al.* (primary author), IEEE Trans. Nucl. Sci. **36**, 440-445 (1989).
689. *Measurement of W Boson Production in 1.8 TeV $p\bar{p}$ Collisions*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **62**, 1005-1008 (1989).
690. *Measurement of the Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **62**, 613-616 (1989).
691. *Evidence for a $J^{PC} = 4^{++}$ State at ~ 2.2 GeV/c² From K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **215B**, 199-204 (1988).
692. *Observation of a New Ω^{*-} at 2.47 GeV/c² in K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **215B**, 799-705 (1988).
693. *Transverse Momentum Distributions of Charged Particles Produced in $p\bar{p}$ Interactions*,
F. Abe *et al.* (joint author), Phys. Rev. Lett. **61**, 1819-1822 (1988).
694. *The CDF Detector: An Overview*,
F. Abe *et al.* (joint author), Nucl. Instr. Meth. **A271**, 387-403 (1988).
695. *A Study of the $K_s^0 K_s^0$ System in the Reaction $K^-p \rightarrow K_s^0 K_s^0 \Lambda$ at 11 GeV/c*,
D. Aston *et al.* (joint author), Nucl. Phys. **B301**, 525-553 (1988).
696. *Spin-Parity Determination of the $\phi_J(1850)$ from K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **208B**, 324-328 (1988).
697. *Evidence for Two Strangeonium Resonances With $J^{PC} = 1^{++}$ and 1^{+-} in K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **201B**, 573-578 (1988).
698. *Observation of the Selective Coupling of K^* States to the $K^- \eta$ Channel*,
D. Aston *et al.* (joint author), Phys. Lett. **201B**, 169-175 (1988).
699. *A Study of $K^- \pi p$ Scattering in the Reaction $K^- p \rightarrow K^- \pi p n$ at 11 GeV/c*,
D. Aston *et al.* (joint author), Nucl. Phys. **B296**, 493-526 (1988).
700. *Observation of Ω^{*-} Production in K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **194B**, 579-585 (1987).

701. *The CDF Event Builder*,
A.W.Booth *et al.* (primary author), IEEE Trans. Nucl. Sci. **NS-34**, 790-795 (1987).
702. *The Organization and Maintenance of the CDF Offline Code on IBM VM and DEC VAX/VMS Operating Systems*,
K. Chadwick, R. Hollebeek and P.K. Sinervo (primary author), Comput. Phys. Commun. **45**, 409-415 (1987).
703. *The Strange Meson Resonances Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c*,
D. Aston *et al.* (primary author), Nucl. Phys. **B292**, 693-713 (1987).
704. *Observation of the Leading K^* L-Excitation Series from $J^P = 1^-$ Through 5^- in the Reaction $K^-p \rightarrow K^-\pi pn$ at 11 GeV/c*,
D. Aston *et al.* (joint author), Phys. Lett. **180B**, 308-312 (1986).
705. *A Study of the Strange Meson Spectrum as Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c*, P.K. Sinervo, SLAC report 299, 1-233 (May 1986). Ph.D. Thesis.
706. *The SLAC Three-Body Partial Wave Analysis System*,
D. Aston, T. Lasinski and P.K. Sinervo (primary author), SLAC report 222, 1-66 (Oct 1985).
707. *The 3081/E Emulator: A Processor for use in On-line and Off-line Arrays*,
P.M. Ferran *et al.* (secondary author), SLAC preprint 3753, contributed to Conf. on Computing in High Energy Physics, Amsterdam, Netherlands, Jun 25-28, 1985.
708. *Experimental Details on Lifetime Measurements of Neutrino-produced Charmed Particles in a Tagged Emulsion Spectrometer*,
N. Ushida *et al.* (joint author), Nucl. Instrum. Methods **224**, 50-64 (1984).
709. *Partial Wave Analysis of the $\bar{K}^0\pi + \pi^-$ System Produced in K^-p Interactions at 11 GeV/c*,
D. Aston *et al.* (primary author), Nucl. Phys. **B247**, 261-292 (1984).
710. *Observation of Two Non-leading Strangeness-one Vector Mesons*,
D. Aston *et al.* (primary author), Phys. Lett. **149B**, 258-262 (1984).
711. *New Results for the Lifetime of the D^{+-} , F^{+-} , and Λ_c^+ Particles*,
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **51**, 2362-2365 (1983).
712. *Charmed Hadron Production by Neutrinos*,
N. Ushida *et al.* (joint author), Phys. Lett. **121B**, 292-296 (1983).
713. *Cross-sections for Charm Production by Neutrinos*,
N. Ushida *et al.* (joint author), Phys. Lett. **121B**, 287 (1983).
714. *New Result for the Lifetime of the D^0 Meson*,
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **48**, 844-847 (1982).

715. *Measurement of the Lifetimes of the Charmed D^+ , D^0 and F^+ Mesons and Λ_c^+ Charmed Baryon,*
N. Ushida *et al.* (joint author), Published in Nashville Conf., 89 (1982).
716. *Upper Limit to $\nu_\mu - \nu_\tau$ Oscillation and $\nu_\mu - \tau$ Coupling,*
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **47**, 1694-1697 (1981).
717. *Measurement of the D^+ , F^+ and Λ_c^+ Charmed Particle Lifetimes,*
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1053-1056 (1980).
718. *Measurement of the D^0 Lifetime,*
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1049-1052 (1980).

8. Non-Refereed Publications (total of 9)

“Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics,” G. Aad *et al.* [ATLAS Collaboration] (joint author), arXiv:0901.0512 (January 2009).

“Interval estimation in the presence of nuisance parameters. 1. Bayesian approach,” J. Heinrich, C. Blocker, J. Conway, L. Demortier, L. Lyons, G. Punzi and P. K. Sinervo (primary author), arXiv:physics/0409129 (Sep 2004).

**Hawking and his Science,* P. K. Sinervo, invited contribution to the Literary Review of Canada, Vol 7, No.5 (March 1999), pp. 16-19.

The Discovery of the Top Quark, P. K. Sinervo, University of Toronto Preprint UOFT-95-25, November 1995, to be published in the proceedings of “1995 Lake Louise Winter Institute on Quarks and Colliders,” Lake Louise, AL, February 19-25, 1995.

The Search for Physics Beyond the Standard Model by CDF, P. K. Sinervo, University of Toronto Preprint UOFT-92-10, September 1992, to be published in the proceedings of “Beyond the Standard Model III” conference, Carleton University, June 22-25, 1992.

Two and Three Body Partial Wave Analysis, P. K. Sinervo, in “Topics in Hadron Spectroscopy,” ed. D. C. Peaslee (Nova Science Publishers, New York, 1991), pp. 137-260.

Simulation and Modelling Study of an SSC Front End Electronics Architecture, P. K. Sinervo, K. J. Ragan, R. Van Berg and H. H. Williams, in “Proceedings of the Symposium on Detector Research and Development for the Superconducting Super Collider,” ed. T. Dombeck, V. Kelly and G. P. Yost (World Scientific, Singapore, 1991), pp. 514-516.

Searches for the Top Quark, P. K. Sinervo and G. P. Yeh, in “Physics News in 1990,” ed. P. F. Schewe (AIP, New York, 1991), pp. 58-60.

Search for New Particles at CDF, P. K. Sinervo, in “Proceedings of the 1989 International Symposium on Lepton and Photon Interactions at High Energies,” ed. M. Riordan (World Scientific, Singapore, 1990), pp. 328-347.

9. Manuscripts Submitted for Publication

1. **“Search for charged Higgs bosons decaying via $H^+ \rightarrow \tau\nu$ in top quark pair events using pp collision data at hl with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1204.2760 [hep-ex]
2. **“Search for resonant WZ production in the $WZ \rightarrow l\nu l'l'$ channel in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1204.1648 [hep-ex]
3. **“Search for pair production of a new quark that decays to a Z boson and a bottom quark with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1204.1265 [hep-ex]
4. **“Search for the decay $B_s^0 \rightarrow \mu\mu$ with the ATLAS detector”**
G. Aad *et al.* [The ATLAS Collaboration].
arXiv:1204.0735 [hep-ex]
5. **“Measurement of $B_s^0 \rightarrow D_s^{(*)+} D_s^{(*)-}$ Branching Ratios”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1204.0536 [hep-ex]
6. **“Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.6580 [hep-ex]
7. **“Measurement of the WW cross section in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector and limits on anomalous gauge couplings”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.6232 [hep-ex]
8. **“Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in final states with missing transverse momentum and b-jets with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.6193 [hep-ex]

9. **“Search for the Standard Model Higgs Boson Produced in Association with a Z Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1203.5815 [hep-ex]
10. **“Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.5763 [hep-ex]
11. **“Measurement of the top quark mass with the template method in the $t\bar{t} \rightarrow$ lepton + jets channel using ATLAS data”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.5755 [hep-ex]
12. **“Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.5420 [hep-ex]
13. **“Measurement of $t\bar{t}$ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.5015 [hep-ex]
14. **“Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.4606 [hep-ex]
15. **“Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.4211 [hep-ex]
16. **“Search for Scalar Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1203.4171 [hep-ex]
17. **“Observation of spin correlation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.4081 [hep-ex]
18. **“Determination of the strange quark density of the proton from ATLAS measurements of the $W \rightarrow l\nu$ and $Z \rightarrow l^+l^-$ cross sections”**

- G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.4051 [hep-ex]
19. **“Search for a heavy particle decaying to a top quark and a light quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1203.3894 [hep-ex]
 20. **“Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.3549 [hep-ex]
 21. **“Search for second generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.3172 [hep-ex]
 22. **“Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.3161 [hep-ex]
 23. **“Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.3100 [hep-ex]
 24. **“Measurement of the azimuthal anisotropy for charged particle production in $\sqrt{s_{NN}} = 2.76$ TeV lead-lead collisions with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.3087 [hep-ex]
 25. **“Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.2165 [hep-ex]
 26. **“Search for a light Higgs boson decaying to long-lived weakly-interacting particles in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.1303 [hep-ex]
 27. **“Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC”**

- G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.1302 [hep-ex]
28. **“A Search for dark matter in events with one jet and missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1203.0742 [hep-ex]
29. **“Search for FCNC single top-quark production at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.0529 [hep-ex]
30. **“Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1203.0419 [hep-ex]
31. **“Precise measurement of the W -boson mass with the CDF II detector”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1203.0275 [hep-ex]
32. **“Measurement of the WZ Cross Section and Triple Gauge Couplings in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1202.6629 [hep-ex]
33. **“Search for down-type fourth generation quarks with the ATLAS detector in events with one lepton and high transverse momentum hadronically decaying W bosons in $\sqrt{s} = 7$ TeV pp collisions”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.6540 [hep-ex]
34. **“Search for a dark matter candidate produced in association with a single top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1202.5653 [hep-ex]
35. **“Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.5520 [hep-ex]
36. **“Combination of CDF and D0 measurements of the W boson helicity in top quark decays”**

- T. Aaltonen *et al.* [CDF and D0 Collaborations].
arXiv:1202.5272 [hep-ex]
37. **“Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high-pt leptons”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.4892 [hep-ex]
 38. **“Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.4847 [hep-ex]
 39. **“Search for pair-produced heavy quarks decaying to Wq in the two-lepton channel at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.3389 [hep-ex]
 40. **“Search for pair production of a heavy quark decaying to a W boson and a b quark in the lepton+jets channel with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1202.3076 [hep-ex]
 41. **“Search for anomalous production of multiple leptons in association with W and Z bosons at CDF”**
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1202.1260 [hep-ex]
 42. **“Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.5595 [hep-ex]
 43. **“Search for a low mass Standard Model Higgs boson in the $\tau\tau$ decay channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1201.4880 [hep-ex]
 44. **“Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.3293 [hep-ex]
 45. **“Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel”**

- G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.1889 [hep-ex]
46. **“Study of jets produced in association with a W boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1201.1276 [hep-ex]
47. **“Jet Substructure at the Tevatron and LHC: New results, new tools, new benchmarks”**
A. Altheimer, S. Arora, L. Asquith, G. Brooijmans, J. Butterworth, M. Campanelli, B. Chapeau and A. E. Cholakian *et al.*.
arXiv:1201.0008 [hep-ph]
48. **“Jet energy measurement with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.6426 [hep-ex]
49. **“Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.6297 [hep-ex]
50. **“Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.5755 [hep-ex]
51. **“Search for Standard Model Higgs Boson Production in Association with a W Boson Using a Matrix Element Technique at CDF in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.4358 [hep-ex]
52. **“Search for contact interactions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.4462 [hep-ex]
53. **“Search for scalar bottom pair production with the ATLAS detector in pp Collisions at $\sqrt{s} = 7$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.3832 [hep-ex]

54. **“Search for production of resonant states in the photon-jet mass distribution using pp collisions at $\sqrt{s} = 7$ TeV collected by the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1112.3580 [hep-ex]
55. **“Measurement of the CP-Violating Phase β_s in $B_s^0 \rightarrow J/\Psi\phi$ Decays with the CDF II Detector”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.1726 [hep-ex]
56. **“Measurements of Angular Distributions of Muons From Υ Meson Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1112.1591 [hep-ex]
57. **“Evidence for the charmless annihilation decay mode $B_s^0 \rightarrow \pi^+\pi^-$ ”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1111.0485 [hep-ex]
58. **“Measurement of the inclusive $W^{+/-}$ and Z/γ cross sections in the electron and muon decay channels in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1109.5141 [hep-ex]
59. **“Combined CDF and D0 Upper Limits on Standard Model Higgs Boson Production with up to 8.2 fb^{-1} of Data”**
T. Aaltonen *et al.* [CDF and D0 Collaboration].
arXiv:1103.3233 [hep-ex]
60. **“Observation of the $Y(4140)$ structure in the $J/\psi\phi$ Mass Spectrum in $B^\pm \rightarrow J/\psi\phi K$ decays”**
T. Aaltonen *et al.* [The CDF Collaboration].
arXiv:1101.6058 [hep-ex]

10. Papers Presented at Meetings and Symposia

1. *Really Understanding Boosted Objects*, 2011 Aspen Centre for Physics, Aspen, CO (July 2011).
2. *Search for Boosted Top Quarks at CDF*, BOOST 2011, Princeton University, New Jersey, USA (May 2011).
3. *Massive High p_T Jets: An Update from CDF*, Boston Jets Workshop, Harvard University, USA (January 2011).

4. *Massive High p_T Jets: Preliminary Results from CDF*, BOOST 2010, Oxford University, England (June 2010).
5. *The Search for New Physics Using the Top Quark at the Tevatron*, representing the CDF and DZero collaborations at TOP 2010, Bruges, Belgium (June 2010).
6. *Weighing the Top Quark at CDF*, SUSY 09, Northeastern University, USA (June 2009). Published in AIP Conf. Proc. **1200**, 670-673 (2010).
7. *Measurement of the Top Production Cross Section Rate from Gluon Fusion at CDF* (poster session), Particles and Nuclei in Collision Conference, Eilat, Israel (November 2008).
8. *Measurement of Single Top Quark Production at CDF* (poster session), Particles and Nuclei in Collision Conference, Eilat, Israel (November 2008).
9. *Measurement of the Top Quark Mass with in situ $W \rightarrow q\bar{q}'$ Calibration*, Canadian Association of Physicists Congress, York University (Jun 2005).
10. *Definition and Treatment of Systematic Uncertainties in High Energy Physics and Astrophysics*, invited talk at PhyStat2003, Stanford University, USA (Sep 2003).
11. *Significance in Particle Physics Experiments*, invited talk at the Conference on Advanced Statistical Techniques in Particle Physics, University of Durham, England (Mar 2002).
12. *The High Energy Frontier – CDF II at the Tevatron Collider*, contributed talk at the Canadian Association of Physicists Congress, University of Victoria, BC (Jun 2001).
13. *Tevatron Higgs Searches in Run II*, invited talk at Higgs-Supersymmetry Workshop, LAL, Orsay, France (Mar 2001).
14. *The Search for Single Top Production*, contributed talk at the Canadian Association of Physicists Congress, York University, ON (Jun 2000).
15. *What We Know About Truth*, invited talk at the Western Regional Nuclear and Particle Physics Conference, Lake Louise, AL (Feb 2000).
16. *Calorimetry in Top Quark Physics*, invited talk at CALOR99, Conference on Calorimetry in High Energy Physics, Lisbon, Portugal (Jun 1999).
17. *Bottom Quark Fragmentation Fractions in $p\bar{p}$ Collisions with CDF at $\sqrt{s} = 1.8$ TeV*, W. Taylor, P. Sinervo, *et al.* (CDF Collaboration), contributed talk to the International Conference in High Energy Physics, Vancouver, Canada (Aug 1998).
18. *The CDF Top Quark Search*, paper presented at the Workshop on the Origin of Fermion Masses and Mixings, Fermilab, USA (Oct 1994).
19. *The Status of the Top Quark Search*, paper presented at the Canadian Association of Physicists 1994 Congress, Regina, Canada (Jun 1994).

20. *The Status of the Top Quark Search*, paper presented at the Canadian Association of Physicists 1994 Congress, Regina, Canada (Jun 1994).
21. *Results from the CDF Experiment*, paper presented at the Canadian Association of Physicists 1993 Congress, Vancouver, Canada (Jun 1993).
22. *Top at the SSC and LHC*, paper presented at the Workshop on Collider Top Physics, Madison, WI (Nov 1992).
23. *The Search for Physics Beyond the Standard Model with CDF*, paper presented at the conference *Beyond the Standard Model III*, Ottawa, Canada (Jun 1992).
24. *The Search for the Top Quark*, paper presented at the 12th Nordic Meeting on Particle Physics, Spatind, Norway (Jan 1992).
25. *Bottom Physics at Hadron Colliders*, paper presented at the conference on *Results and Perspectives in Particle Physics*, La Thuile, Italy (Mar 1991).
26. *The Search for the Top Quark at CDF*, paper presented at the annual meeting of the Division of Particles and Fields, Storrs, CN (Jul 1988).

11. Invited Lectures

1. *The Search for the Higgs Boson*, CIFAR Brown-Bag Lunch Series, Canadian Institute for Advanced Research, Jan 2012.
2. *The Search for the Higgs Boson*, Vic One Colloquium, Victoria College, University of Toronto, Oct 2011.
3. *Top and Higgs at CDF and ATLAS*, series of three seminars given in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Sep-Dec 2008.
4. *Top Quark Physics*, two invited lectures at the TRIUMF Summer Institute 2009, Vancouver, BC, Jul 2009.
5. *The Race for the Higgs Boson*, colloquium in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Apr 2009.
6. *Study of Anomalous Production of Multi-Muon Events*, colloquium in the Department of Physics, Technion, Haifa, Israel, Feb 2008.
7. *Search for Truth: What We Know About the Top Quark*, colloquium in the Department of Physics, Tel Aviv University, Tel Aviv, Israel, Jan 2009.
8. *Study of Anomalous Production of Multi-Muon Events*, seminar in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Nov 2008.

9. *Top and Higgs at CDF and ATLAS*, series of three seminars given in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Sep-Dec 2008.
10. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Tec de Monterrey, Monterrey, Mexico, 21 Mar 2007.
11. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Waseda University, Tokyo, Japan, 15 Oct 2006.
12. *Weighty Matter: The Top Quark and its Mass*, colloquium given at the Weizmann Institute, Rehovot Israel, 5 Jul 2006.
13. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Cornell University, USA, 29 Jan 2006.
14. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at Tsinghua University, Beijing, 5 Dec 2005.
15. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at the Institute for High Energy Physics, Beijing, 7 Dec 2005.
16. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at Shanghai Jiaotong University, Shanghai, 15 Dec 2005.
17. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at Hong Kong University, Nov 2004.
18. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at National University of Singapore, Nov 2004.
19. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at Seoul National University, Nov 2004.
20. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at University of Jyväskylä, Oct 2004.
21. *Emerging Top Results from CDF II*, colloquium given in the Physics Institute, University of Bonn, Feb 2004.
22. *Search for Truth*, colloquium in the Institute of Physics, University of Helsinki, Oct 2003.
23. *The Mysteries of the Top Quark*, colloquium in the Department of Astronomy and Physics, St. Mary's University, Mar 2003.
24. *Frontiers in Particle Physics: Some Old Statistical Problems*, colloquium in the Department of Statistics, University of Toronto, Jan 2002.
25. *The Discovery of the Top Quark*, CAP Undergraduate Lecture, Trent University, Mar 2001.

26. *The Discovery of the Top Quark*, colloquium at the University of Guelph, Feb 2001.
27. *The Top Quark: Scientific Success or Failure?*, invited lecture at the Institute for the History and Philosophy of Science and Technology, University of Toronto, Oct 1999.
28. *The Debut of Top*, colloquium at the University of British Columbia, May 1999.
29. *Observations on Top*, colloquium at Carleton University, Feb 1999.
30. *The Nature of Truth and Beauty (quarks, that is)*, Senior Common Room talk, University College, Oct 1998.
31. *Careers in Physics*, lecture at Upper Canada College, Toronto, Feb 1998.
32. *Careers in Physics*, lecture at Upper Canada College, Toronto, Feb 1998.
33. *The Stuff We are Made of*, public lecture at Ernescliffe College, University of Toronto, Nov 1997.
34. *Physics with Secondary Vertices*, colloquium at California Institute of Technology, Jun 1997.
35. *Search for Fundamental Structure*, colloquium at Simon Fraser University, Oct 1996.
36. *Search for Fundamental Structure*, colloquium at University of British Columbia, Oct 1996.
37. *Top to Bottom*, High energy physics seminar at University of British Columbia, Oct 1996.
38. *Search for Fundamental Structure*, colloquium at University Victoria, Oct 1996.
39. *Top to Bottom*, High energy physics seminar at University of Toronto, Oct 1996.
40. *Top to Bottom*, High energy physics seminar at University of Rochester, Sep 1996.
41. *The Discovery of Truth: How the Top Quark was Found*, invited lecture, Royal Canadian Institute, University of Toronto, Oct 1995.
42. *Quarks and Cosmos*, invited lecture in the Frontiers in Physics lecture series, Learning Unlimited, Etobicoke, ON, Oct 1995.
43. *The Physics of CDF*, a series of five lectures presented at the 1995 TRIUMF Summer Institute, Jul 1995.
44. *Top Studies at Hadron Colliders*, a series of three lectures presented at the 1995 SLAC Summer Institute. Proceedings to be published.
45. *The Search for Top*, a series of two lectures presented at the 1995 Lake Louise Winter Institute. Proceedings to be published.
46. *New Results from CDF*, colloquium at Carleton University, Apr 1995.

47. *Observation of Top Quark Production*, colloquium at the University of Toronto, Mar 1995.
48. *What is Our World Made Of?*, invited lecture given at the Annual Meeting of the Science Teachers Association of Ontario, Toronto, ON, Nov 1994.
49. *Have We Reached the Top Yet?*, colloquium at Guelph University, Nov 1994.
50. *Status of the Top Quark Search*, invited talk at the Workshop on the Origins of Fermion Masses and Couplings, Fermilab, IL, Oct 1994.
51. *Status of the Top Quark Search*, colloquium presented at University of Alberta Physics Department, Sep 1994.
52. *Networking and HEP Data Collection*, invited talk presented at the Fermilab Affiliates Meeting, Sep 1994.
53. *Status of the Top Quark Search*, colloquium at University of Alberta, Sep 1994.
54. *Status of the Top Quark Search*, invited talk at the Canadian Association of Physicists Symposium, University of Regina, Jun 1994.
55. *Have We Seen the Top Quark?*, invited colloquium at TRIUMF, Vancouver BC, May 1994.
56. *Have We Seen the Top Quark?*, invited colloquium at the University of Waterloo, May 1994.
57. *Have We Found the Top Quark*, seminar presented at University of Toronto Physics Department, Apr 1994.
58. *Finding Truth by Searching for Beauty*, invited colloquium at McMaster University, Sep 1993.
59. *What Have We Learned from Studying High Energy Proton-antiproton Collisions?*, invited colloquium at Harvard University, Oct 1991.
60. *Experimental Particle Physics*, a series of four lectures presented at the 1990 Theoretical Advanced Study Institute, in "Proceedings of the 1990 Theoretical Advanced Study Institute in Elementary Particle Physics," ed. M. Cvetič and P. Langacker (World Scientific, Singapore, 1991), pp. 591-632.
61. *Experimental Techniques in Hadron Spectroscopy*, a series of three lectures presented at the 1988 Summer School on Hadron Spectroscopy, University of Maryland, Jul 1988 (to be published).

D. List of Courses

12. a. Undergraduate Courses

- PHY140Y – Foundations of Physics. Enrolment: 140-160
This is a first year specialist physics course. I team taught it with Prof. K. Strong in Jan 1999 and 2000.
- PHY252S – Thermal Physics. Enrolment: 50
I taught this course for four years starting in Jan 1993. This is a half-year introductory course on Thermal Physics. The text for this course is *Thermal Physics* by Kittel and Kroemer.
- I was responsible for the Physics Olympiad Preparation Programme at the University of Toronto from May 1992 to Sep 1996. This programme screens students from the Ontario high schools and selects the best students to compete in the Canadian Physics Olympiad. I am currently completing a compilation of the problems and solutions we have developed over the last five years, which we intend to publish.
- PHY352S – Electrodynamics. Enrolment: 50
I taught this course from Jan 1991 through May 1993. This is a half-year course on classical electrodynamics, focusing on Maxwell's equations, special relativity and electromagnetic waves. The text for this course is *Classical Electrodynamics* by H. C. Ohanian.
- PHY150 – Mechanics, Enrolment 90 (estimated)
I taught this course at the University of Pennsylvania during the Fall 1988 and Winter 1990 terms. The course focused on mechanics and covered the first 15 chapters of *Fundamentals of Physics* by Halliday and Resnick.

12. b. Graduate Courses

- PHY1510H – Classical Electromagnetism. Enrolment: 3
I taught this course in fall 2010.
- I taught an advanced particle physics course at the University of Toronto entitled “Physics and Anatomy of High-Energy Hadron Scattering,” in fall 2009.
- I taught an advanced particle physics course at the Weizmann Institute of Science, Rehovot, Israel, “Physics and Anatomy of High-Energy Hadron Scattering,” in spring 2009.
- I taught one 2-week module of PHY2406F, “Experimental Methods in Particle Physics,” in spring 2006.
- I taught one 2-week module of PHY4107F, “Experimental Methods in Physics,” in fall 1996 and 1997.
- I have taught, in collaboration with Prof. David Bailey, PHY2405, “Experimental High Energy Physics,” in fall 1994 and 1995.

12. c. Undergraduate and Graduate Student Supervision

I have been primary advisor for the following graduate students:

- N. Thorpe, M.Sc. (2009) and Ph.D. candidate at the University of Toronto (2009-2011).
- T. Farooque, Ph.D. candidate at the University of Toronto (2007-).
- B. Guo, M.Sc. (2006-2007) and Ph.D. candidate at the University of Toronto (2006-).
- S. Pashapour, M.Sc. (1999-2001) and Ph.D. graduate at the University of Toronto (2001-2008). Her thesis was entitled *First Measurement of $\sigma(gg \rightarrow t\bar{t})/\sigma(p\bar{p} \rightarrow t\bar{t})$* , Apr 2008.
- S. Lai, M.Sc. (2000-2001) and Ph.D. graduate at the University of Toronto (2001-2006). His thesis was entitled *The Search for the Standard Model Higgs Boson Produced in Association with a Top Anti-Top Quark Pair in 1.96 TeV Proton-Antiproton Collisions*, Dec 2006.
- J. Arguin, Ph.D. graduate at the University of Toronto (2001-2005). His thesis was entitled *Measurement of the Top Quark Mass Using In Situ Jet Energy Scale Calibration*, Dec 2005. This thesis won the 2006 Universities Research Association (URA) Thesis Award for “most outstanding doctoral thesis written on research conducted at Fermilab or in collaboration with Fermilab scientists” and the American Physical Society Tanaka Thesis Prize.
- A. Robinson, M.Sc. (1996-1997) and Ph.D. graduate at the University of Toronto (1997-2000). His dissertation was titled “Measurement of the Top Quark Transverse Momentum Distribution.”
- W. Taylor, M.Sc. (1993-1994) and Ph.D. graduate at the University of Toronto (1994-1999). Her dissertation was titled “A Measurement of b -quark Fragmentation Fractions in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV.”
- A. Warburton, M.Sc. (1991-1992) and Ph.D. graduate at the University of Toronto (1992-1997). His dissertation was titled “A Study of Exclusive Nonleptonic Decays of B Mesons into Final States of Strange Mesons and 1S or 2S Charmonia.”
- H. Kim, M.Sc. (1991-1992) and Ph.D. graduate at the University of Toronto (1993-1999). His dissertation was titled “Search for a New Charged Heavy Vector Boson Decaying to a $\mu\nu_\mu$ Pair.”
- R. Grindley, Ph.D. candidate at the University of Toronto (1990-1992).
- G. Sganos, M.Sc. (1990-1991) and Ph.D. graduate at the University of Toronto (1991-1996). Dr. Sganos’s dissertation was titled “Measurement of Ratios of Branching Fractions in B Meson Decays.”
- A. Krumins, Ph.D. candidate at the University of Toronto (1990-1991). Mr. Krumins transferred to the Department of History and Philosophy of Science and Technology in fall 1991.

I have also acted as co-advisor for the following graduate students:

- Lingfeng Song, Ph.D. dissertation at the University of Pennsylvania. Dr. Song defended his dissertation on “ $B^0\bar{B}^0$ Mixing” in Sep 1991.
- David Connor, Ph.D. dissertation at the University of Pennsylvania. His thesis, completed in 1991, is on the “Study of Multi-Jet Final States Observed at CDF.” I was his secondary supervisor for the period 1987 through 1990.
- John Walsh, Ph.D. dissertation at the University of Pennsylvania. His thesis is titled “Search for the Top Quark in Electron + Jet Events,” and was completed in Apr 1990. I was his secondary supervisor for the period 1988 through 1990.

I have supervised the following undergraduate students:

- Jennifer Jing Fei Yu, NSERC summer research assistant, working on ATLAS detector calibrations of jets, May 2010-Aug 2010.
- Keith Ng, NSERC summer research assistant, working on ATLAS detector missing transverse energy calibrations, May 2010-Aug 2010.
- Trisha Farooque, NSERC summer research scholar working on the CDF II top quark mass measurement, May 2006-Aug 2006.
- Si Xie, NSERC summer research scholar working on the CDF II top quark mass measurement, May 2004-Apr 2006.
- Ian Blumenfeld, B.A.Sc. thesis at the University of Toronto. Mr. Blumenfeld completed his thesis “Top Quark Mass Measurements” in Apr 2004.
- Timothy Little, B.A.Sc. thesis at the University of Toronto. Mr. Little completed his thesis “Calorimetry Calibration” in Apr 2003.
- Wojciech Fedorko, NSERC summer research scholar working on the CDF II calorimeter software development project, May 2002-Aug 2002 and May 2002-Aug 2003.
- John Berdeklis, research assistant on the CDF software development project, May 2000-Aug 2000.
- James Gordon, NSERC summer research scholar working on ATLAS pixel detector development, May 2000-Jul 2000.
- Aidan Robson, research assistant on the ATLAS pixel project, May 1999-Aug 1999. Also worked on the CDF II calorimetry software development project, May 2000-Aug 2000.
- Debbie Chachra, B.A.Sc. thesis at the University of Toronto. Ms. Chachra completed her thesis on “A Feasibility Study of the Use of Scintillator in the Sudbury Neutrino Observatory” in Apr 1991.

12. d. Course Development

I have been involved in the development of software for use in the undergraduate physics program at the University of Toronto. I developed a number of Mathematica applications that were used by PHY352S students during the 1992 spring term to both solve problems and improve their understanding of various concepts presented in lectures.

I also developed a set of lecture notes for PHY352S that are distributed to students prior to lectures. These notes are meant to provide the students with a complete presentation of the course material, and are approximately 150 pages in length.

I have developed a similar set of lecture notes for PHY252S. I have used Mathematica extensively for the illustrations and problems presented in the notes.

E. Administrative Positions

13. a. University Committees (at University of Toronto)

- Co-chair, 2012 Welsh Lecture Committee, Department of Physics, Sep 2011 - May 2012.
- Member, Federated Colleges Memorandum of Agreement Steering Committee, Jun 2007 - Feb 2008.
- Member, Principal Search Committee, Woodsworth College, Feb-Apr 2007.
- Member, Principal Search Committee, New College, Feb-Apr 2006.
- Member, Principal Search Committee, Innis College, Feb-Apr 2005.
- Member, Principal Search Committee, University College, Feb-Apr 2005.
- Member, Human Resources Management Board, Jul 2003 - Feb 2008.
- Member, Review Committee for Federated College Memorandum of Agreement.
- Co-Chair, Life Sciences Curriculum Planning Committee, Jan 2002 - Dec 2002.
- Chair, Scientific Oversight Committee for the Koffler Scientific Reserve at Joker's Hill, Jun 2002 - Apr 2003.
- Chair, Faculty of Arts and Science Web Advisory Committee, Oct 2002 - Dec 2002.
- Chair, Oversight Committee, Canadian University Centre in Berlin, Jan 2003 - Apr 2003.
- Member, Vice-Principal (Academic) and Vice-Principal (Research) Search Committees, University of Toronto at Mississauga, Nov - Dec 2002.

- Member, Vice-Dean (Research) Search Committee, Faculty of Medicine, University of Toronto, Nov-Dec 2002.
- Member, High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 2001 - Feb 2002.
- Member, CUPE 3902 Labour-Management Committee, Jan 2003 - Jun 2004. Interim Chair, Institutional Council for the Association of Canadian Universities for Research in Astronomy, Dec 2002 - Jun 2008.
- Chair Search Committee, Faculty of Arts and Science for:
 - Chair of eight department chair search committees in 2007-2008
 - Chair of eleven department chair search committees in 2006-2007
 - Chair of seven department chair search committees in 2005-2006
 - Chair of seven department chair search committees in 2004-2005
 - Chair of nine department chair search committees in 2003-2004
 - Member, Department of Chemistry, Jan 2003
 - Member, Department of Computer Science, Dec 2002
 - Member, Department of Psychology, Mar 2001
- Member, Faculty of Arts and Science Dean's Senior Salary Committee, Jun 2000 - 2003. Chair of Committee 2004-2007.
- Member, Academic Advisory Board of the Computing Management Board, Sep 2000 - Jun 2004.
- Member, Senior Health and Safety Committee, Sep 2000 - Jun 2004.
- Member, Provostial Advisory Committee on Graduate Student Funding, Jan 2001 - Jun 2003.
- Member, Interim Steering Committee for the Centre for Cellular and Biomolecular Research, Jul 2001 to Jun 2003.
- Member of Council, School of Graduate Studies, University of Toronto, Jul 2001 to Jun 2003.
- Chair, Sciences Curriculum Committee, Faculty of Arts and Science, Aug 2000 to Jun 2003.
- Member, Canada Research Chair Advisory Committee, Mar-Jun 2000.
- Chair, Faculty of Arts and Science Graduate Advisory Committee, Sep 2000-Aug 2001.
- Presidential Installation Committee, Aug 2000-Sep 2000.
- Member, School of Graduate Studies Division III Associate Dean Search Committee, Apr 2000.

- Member, Engineering Science Chair's Search Committee, Faculty of Applied Science and Engineering, University of Toronto, Mar 2000.
- Committee on Institutes and Centres, School of Graduate Studies, Feb 2000.
- Division III Executive and Council, School of Graduate Studies, Sep 1998 to Jun 2001.
- Member, Committee on Honorary Degrees, University of Toronto, Sep 1998 to Aug 2000.
- Member, Budget Committee, Faculty of Arts and Science, Jul 1997 to Jun 1999.
- Member, Complement Planning Committee, Faculty of Arts and Science, Jul 1998 to Aug 2000.
- Member, Research Advisory Board Executive, University of Toronto, Sep 1999 to Jun 2004.
- Member, Dean's Merit Award Committee, Faculty of Arts and Science, Jun 1999.
- Undergraduate Education Advisory Committee, Faculty of Arts and Science, Sep 1997 to Aug 1999.
- Sales and Distribution Steering Committee, University of Toronto, Feb 1998.
- Faculty of Arts and Science Computer Users Committee, University of Toronto, Feb 1998.
- Dean's representative on the following tenure review committees:
 - Prof. D. Lynch, Department of English, Oct 2006.
 - Prof. R. Jayawardhana, Department of Astronomy and Astrophysics, Mar 2007.
 - Prof. U. Wortmann, Department of Geology, Mar 2007.
 - Prof. R. Kingston, Department of Political Science, Jan 2007.
 - Prof. L. White, Department of Political Science, Mar 2006.
 - Prof. A. Maynard, Department of Economics, Mar 2006.
 - Prof. D. Berends, Department of Sociology, Mar 2006.
 - Prof. D. Zamble, Department of Chemistry, Mar 2006.
 - Prof. J. Hackworth, Department of Geography, Mar 2006.
 - Prof. M. Woodland, Department of English, Mar 2006.
 - Prof. L. Fuster, Department of Economics, Mar 2006.
 - Prof. U. Esonwanne, Department of English, Mar 2005.
 - Prof. R. Pysklywec, Department of Geology, Mar 2005.
 - Prof. A. Chasteen, Department of Psychology, Mar 2005.
 - Prof. I. Peng, Department of Sociology, Mar 2005.
 - Prof. S. Scheiman, Department of Sociology, Mar 2005.

- Dr. A. Rosenthal, Computer Science, Nov 2005 (senior lecturer).
 - Prof. M. Woodland, Department of English, Mar 2004.
 - Prof. J. Colliander, Department of Mathematics, Mar 2004.
 - Prof. J. Brenan, Department of Geology, Mar 2003.
 - Prof. S. Tenenbaum, Department of Philosophy, Mar 2003.
 - Prof. J. Bertrand, Department of Political Science, Apr 2003.
 - Prof. H. Rodd, Department of Zoology, Feb 2003.
 - Prof. L. Cohen, Department of Anthropology, Jan 2003.
 - Prof. Y. Karshan, Department of Mathematics, May 2002.
 - Prof. R. Jerrard, Department of Mathematics, May 2002.
 - Prof. D. Bar-Natan, Department of Mathematics, May 2002.
 - Prof. J. Schofield, Department of Chemistry, Feb 2002.
 - Prof. A. Yudin, Department of Chemistry, Feb 2002.
 - Prof. D. Goring, Department of Botany, Jun 2001.
 - Prof. H. Kim, Department of Mathematics, Jun 2001.
 - Prof. R. Zemel, Department of Computer Science, Apr 2001.
 - Prof. S. Stevenson, Department of Computer Science, Apr 2001.
 - Prof. R. Miller, Department of Computer Science, Apr 2001.
 - Prof. M. Pugh, Department of Mathematics, Apr 2001.
 - Prof. E. Kumacheva, Department of Chemistry, Mar 2001.
 - Prof. R. Cameron, Department of Botany, Mar 2001.
 - Prof. P. Kotanen, Department of Botany, Mar 2001.
- Chair of the following Department of Physics tenure review committees:
 - Prof. Robert Birgeneau, 2000.
 - Prof. Michael Luke, 1997-98.
 - Prof. Thom Mason, 1997-98.
 - Prof. Stephen Morris, 1997-98
 - Chair of the following Department of Physics Committees:
 - Promotions Committee, Sep 1997 to 2000.
 - Physics Computing Services Committee, Sep 1997 to 2000.
 - Planning Committee, Sep 1997 to 2000.
 - Industrial Liaison Council, Sep 1997 to 2000.

– Award Nominations Committee, Sep 1997 to 2000.

- Member of the High School Liaison Committee, Department of Physics, Sep 1997 to Aug 2000.
- Member of the Physical Sciences Panel of the Research Advisory Board, University of Toronto, Oct 1997 to Aug 2000.
- High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 1994 through Apr 1995.
- Physics Computing Services Committee, Department of Physics, University of Toronto, Sep 1994 to Aug 1996.
- Infrastructure Planning Committee for the Department of Physics, University of Toronto, Apr 1994 through May 1994.
- High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 1993 through Jul 1994.
- Graduate Admissions Committee for the Department of Physics, University of Toronto, Sep 1993 to Jun 1996.
- Graduate Curriculum Committee for the Department of Physics, University of Toronto, Sep 1992 through May 1993.
- Review Committee for Dr. David Harrison, senior tutor in the Department of Physics, University of Toronto, Mar 1993.
- Undergraduate Curriculum Committee for the Department of Physics, University of Toronto, Sep 1992 through May 1992 and after Sep 1995.
- Technical Services Committee for the Department of Physics, University of Toronto, appointed Sep 1991.
- Committee to Evaluate Undergraduate Laboratories, Department of Physics, University of Toronto, Sep 1991 through May 1992.
- Member of Colloquium Committee in the Physics Department, University of Pennsylvania, Sep 1988 through Aug 1989.

13. b. Academic Committees Outside the University

- Chair, SNOLAB Institute Board of Management, September 2010 to present.
- Chair, Selection Committee for the TRIUMF-CAP Vogt Medal, spring 2011.

- Chair, Academic Advisory Committee, Baycrest Health Science Centre and Hospital, July 2009 to present.
- Member, Board of Directors, Baycrest Hospital, July 2009 to present.
- Lead Reviewer, External Assessment of the Faculty of Science, University of Alberta, February 2010.
- Member, NSERC Steacie Fellowship Selection Committee, fall 2009.
- Member, NRC Steacie Prize Selection Committee, fall 2009 and fall 2010.
- Chair, NSERC Discovery Accelerator Supplements Review Committee for Physical Sciences, May 2009.
- Member, Helmholtz Association Review Committee of Particle Physics Program, DESY, Feb 2009.
- Chair, Expert Panel on Nanotechnology, Canadian Council of Academies, Jun 2007 to Jun 2008.
- External Reviewer, Department of Physics and Astronomy, University of Pennsylvania, Feb 2008.
- External Reviewer, Department of Physics and Astronomy, Victoria University, Nov 2007.
- External Reviewer, Arts in Science Programs, McGill University, Apr 2007.
- Member, DOE Expert Review Committee, Stanford Linear Accelerator Center, Jun 2006 and Jun 2007.
- Chair, Tory Medal Selection Committee, Division of Mathematical and Physical Science, Royal Society of Canada, May 2006 - Jun 2009.
- Member, External Review Committee for the Faculty of Science, Jyväskylä University, Oct 2005.
- Chair, Institutional Council of the Association of Canadian Universities for Research in Astronomy, May 2004 - Jun 2008.
- Director, Division of Mathematical and Physical Science, Royal Society of Canada, May 2003 - Nov 2005.
- Chair, Fellowship Selection Committee, Division of Mathematical and Physical Science, Royal Society of Canada, May 2001 - Nov 2005.
- Member, NSERC Council for Research Grants (Group Chair for Physics), Feb 2003 - Jun 2006.

- Member, NSERC Steacie Fellowship Selection Committee, Sep 2003 - Dec 2003.
- Member, Rotman Research Institute Advisory Committee, Sep 2001 - Jun 2008.
- Member, International Advisory Committee, Conference on Statistical Problems in Particle Physics, Astrophysics and Cosmology, Stanford Linear Accelerator Center, Sep 2003.
- Member, Fermilab Run II Computing Review Panel, May 2002.
- Member, Swiss Science Study Tour, a week-long tour of the federal Swiss research laboratories, organized by the Swiss government and led by Dr. Arthur Carty, president of the National Research Council, Apr 2002.
- Chair, External Review Committee for the UBC Department of Physics and Astronomy, Nov 2001.
- Member, NSERC Scholarships and Fellowships Selection Committee (Chemistry and Physics), Feb 2001 - Feb 2002.
- Chair, NSERC Reallocation Steering Committee for Subatomic Physics Jul 2000 - Jun 2002.
- Chair, SNO-ARC Science Subcommittee, Dec 1999 to Jun 2006.
- Chair, NRC Advisory Committee on TRIUMF, Jun 1999 to Jun 2004.
- Member, International Advisory Committee, 5th International Conference on Hyperons, Charm and Beauty Hadrons, University of British Columbia, Jun 2001 to Jul 2002.
- Member, International Advisory Committee, Conference on Advanced Statistical Techniques in Particle Physics, University of Durham, England, Jun 2001 to Jun 2002.
- Chair, CDF II Data Handling Review Committee, Fermi National Accelerator Laboratory, Sep 2001 to Jun 2002.
- Member, CDF II Statistics Committee, Fermi National Accelerator Laboratory, Jan 2001 to Jun 2006.
- Member, Director's Review of the Physics Division, Lawrence Berkeley National Laboratory, Nov 1999-2000.
- Session Chair, American Physical Society Meeting, Atlanta, GA, Mar 1999.
- Member, NSERC Doctoral Prizes Selection Committee, Nov 1998.
- Member, TRIUMF Board of Management, representing University of Toronto (Dec 1997 - Dec 2000).
- Chair, NSERC Subatomic Physics Grant Selection Committee (Jul 1997-Jun 1998).

- Chair, NSERC Reallocation Steering Committee for Subatomic Physics (Jul 1997-Jan 1998).
- Member, NSERC Subatomic Physics Grant Selection Committee (Jul 1996-Jun 1998).
- Member, BABAR Experiment Software and Computing Review Committee (Nov 1996).
- Vice-Chair, NSERC and Canadian Association of Physicists Subatomic Physics Review Committee (May 1996-Jun 1998).
- Chair, BABAR Experiment Reconstruction Software Review Committee (Apr 1996).
- Member, Software Infrastructure Review Committee for the STAR Collaboration, Lawrence Berkeley Laboratory (Aug 1995).
- Member, Stanford Linear Accelerator Center BABAR Technical Review Committee (Mar 1995-May 1998).
- Chair, Particle Physics Division, Canadian Association of Physicists (Jul 1994-Jun 1995).
- Member, NSERC/NRC SNO Review Committee (Nov 1994 to Nov 1999).
- Member, NSERC OPAL Review Committee (Nov 1993 and 1994).
- Member, NSERC ATLAS Review Committee (Nov 1993).
- CDF Collaboration Offline Group Leader (Aug 1993-Sep 1996).
- Member, Fermilab User's Executive Committee (Sep 1993 - Aug 1995).
- Conference session organizer, International Industrial Symposium on the Super Collider, San Francisco, CA (May 1993).
- Representative for University of Toronto on the Solenoid Detector Collaboration Institutional Board (Jan 1991-Oct 1993).
- Member, Technical Steering Committee for the Solenoid Detector Collaboration Electronics Group (Jun 1992-Oct 1993).
- Representative for University of Toronto on the Collider Detector at Fermilab Executive Board (May 1991 to Jun 1998).
- Conference session organizer, APS Division of Particles and Fields meeting, Vancouver BC (Aug 1991).
- Representative for University of Toronto on the Institutional Board of the Solenoid Detector Collaboration (1990-1993).
- Co-chair of the Heavy Flavour Analysis Group of the CDF collaboration (1990-1992).
- Co-chair of the Top Quark subgroup at the "Physics in the 1990's" workshop held in Breckenridge, CO (Aug 1989).