

Eva Halkiadakis

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Education

Highest Earned Degree

Ph.D., Experimental Particle Physics, Rutgers University, 2001

Dissertation

“Measurements of neutral kaon decays to two electron positron pairs,” Rutgers University, Spring 2001,
 Academic advisor Sunil Somalwar

Other Earned Degrees, Graduate and Undergraduate

B.S. Physics / B.A. French, Rutgers University, 1995

Linguistic Ability

Mother tongue: English

Fluent: Greek

Competent: French

Employment History

Positions Held

05/2011-ongoing	Fermilab LHC Physics Center (LPC) Senior Fellow
07/2006-ongoing	Rutgers University, Assistant Professor (entered tenure stream)
01/2006-06/2006	Rutgers University, Assistant Research Professor
07/2001-12/2005	University of Rochester, Research Associate

Teaching Experience

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|-----------|---|
| 2011 | <p><i>Rutgers University Spring 2011 and Fall 2006.</i> First year physics with calculus for science majors.</p> <ul style="list-style-type: none"> • Four recitation sections per semester. Lead homework problem solving sessions designed quizzes and proctored exams. |
| 2008-2010 | <p><i>Rutgers University Fall 2008, Fall 2009, Fall 2010.</i> Quantum Mechanics and Atomic Physics.</p> <ul style="list-style-type: none"> • Introductory quantum mechanics and atomic physics, including the Schroedinger equation and its solutions for simple potentials, the hydrogen atom, and complex atoms and molecules. • For physics majors and minors. |

- 2007-2009 | *Rutgers University Spring 2007, Spring 2008, Spring 2009.* Physics of Modern Devices.
- Physical laws and principles underlying modern devices and processes.
 - For physics majors and minors.
- 1999-2000 | *Rutgers University Fall 1999 and Spring 2000.* First year physics with calculus for science majors.
- Two recitation sections per semester. Lead homework problem solving sessions designed quizzes and proctored exams.
- 1995 | *Rutgers University Fall 1995.* First year physics with calculus for science majors.
- Homework problem solving session.

Research Interests

Description of Research and Scholarly or Creative Objectives

CMS (Compact Muon Solenoid), 2001-Present

CDF (Collider Detector at Fermilab), 2000-Present

KTeV (Kaons at the Tevatron), 1994-2003

Honors and Awards

Fellowships

Fermilab LHC Physics Center (LPC) Fellowship, May 2011-May 2012, \$40,000, plus \$20,00 travel funds

Bunting-Cobb Fellowship, From the Douglass Project for Rutgers Women in Math, Science and Engineering, 1999-2000

GAANN Fellowship (Graduate Assistance in Areas of National Need) 1998-1999, 1995-1996

Professional Awards and Honors

2009 | Rutgers SPS Outstanding Teaching Award, April 2009

2008 | NSF CAREER Award, June 2008-Present, \$550,000 (over 5 years)

1995 | Richard T. Weidner Prize, 1995

1995 | Rutgers Physics Dept. Honors Program, 1994-1995

1994 | Sigma Pi Sigma National Physics Honor Society, 1994

1994 | Phi Beta Kappa Society, 1994

1993 | Mary Wheeler Wigner Memorial Scholarship, 1993

1993 | Golden Key National Honor Society, 1993

Conference Presentations, Lectures, Demonstrations

Keynote or Plenary Addresses

- 2011 | *Workshop on Searches for Supersymmetry at the LHC (October 2011, expected), Berkeley, CA.* Presentation Title: "Searches for New Physics at CMS"
- 2011 | *Rutgers University, Physics Colloquium (September 7, 2011, expected), Piscataway, NJ.* Presentation Title: "Particle Physics at the Energy Frontier: From the Tevatron to the LHC"
- 2011 | *Boost 2011 Workshop (May 2011), Princeton, NJ.* Presentation Title: "Search for New Physics in Multijet Final States at CDF"
- 2010 | *22nd Rencontres de Blois (July 2010), Blois, France.* Presentation Title: "Non-SUSY Searches at the Tevatron"
- 2010 | *35th International Conference on High Energy Physics (July 2010), Paris, France.* Presentation Title: "SUSY and RPV SUSY Searches at the Tevatron"
- 2010 | *Boost 2010 Workshop (June 2010), Oxford, UK.* Presentation Title: "Signatures of lepton-jet production at the LHC"
- 2010 | *The University of Utah, Physics Colloquium (April 2010), Salt Lake City, UT.* Presentation Title: "The Startup of the LHC Experiments"
- 2009 | *TASI Summer School (June 2009), Boulder, CO.* Title of Lectures: "Introduction to the LHC Experiments"
- 2009 | *Fermilab Joint Experimental-Theoretical Seminar (May 2009), Batavia, IL* Presentation Title: "Direct measurement of the W boson production charge asymmetry at CDF".
Seminar also given at: *Oxford (Jan 2011), Rutherford Appleton Laboratory (Jan 2011), University of Utah (April 2010), University of Pennsylvania (Oct 2009), University of Maryland (May 2009).*
- 2009 | *XXIII Rencontres de Physique de la Vallee d'Aoste (March 2009), La Thuile, Aosta Valley, Italy.* Presentation Title: "Electroweak Measurements from the Tevatron"
- 2008 | *Aspen 2008 Winter Conference (January 2008), Aspen, CO.* Presentation Title: "Top Quark Properties at the Tevatron"
- 2008 | *LHC New Physics Signatures Workshop (January 2008), University of Michigan.* Presentation Title: "Extracting Hadronic Resonances using Jet Ensembles"
- 2006 | *APS April Meeting (April 2006), Dallas, Texas.* Presentation Title: "Top at Run II and LHC Prospects"
- 2005 | *Rutgers University Physics Colloquium (2005), Piscataway, NJ.* Presentation Title: "An Experimentalist's View of Particle Physics at the Energy Frontier". Colloquium also given in 2005 at: *Kansas State University, University of Colorado*
- 2004 | *32nd International Conference on High Energy Physics (2004), Beijing, China.* Presentation Title: "Asymmetries in W and Z Production at the Tevatron"
- 2003 | *Fermilab Joint Experimental-Theoretical Seminar (2003), Batavia, IL.* Presentation Title: "Recent Results in Electroweak, Exotic and Top Physics from CDF. Seminar also given in 2003 at: *Rutgers University*

Other Invited Addresses

- 2011 | *Texas A&M University, Particle, Astrophysics & Cosmology Seminar (Nov. 2011, expected), College Station, TX.* Presentation Title: "Searches at CDF and CMS (TBD)"
- 2011 | *University of Michigan, High Energy Physics Seminar (Oct. 2011, expected), Ann Arbor, MI.* Presentation Title: "Searches at CDF and CMS (TBD)"
- 2011 | *University of Karlsruhe, High Energy Physics Seminar (July 2011), Karlsruhe, Germany.* Presentation Title: "Searches for Hadronic Resonances at CDF and CMS"
- 2008 | *APS April Meeting (2008), St. Louis, MO.* Presentation Title: "Measurement of the W boson production charge asymmetry at CDF"
- 2007 | *Universitat Autònoma de Barcelona, IFAE Seminar (2007), Barcelona, Spain.* Presentation Title: "Recent Top Quark and Electroweak Measurements from CDF"
- 2005 | *PIXEL International Workshop (September 2005), Bonn, Germany.* Presentation Title: "A Proposed Luminosity Monitor for CMS Based On Small Angle Diamond Pixel Telescopes"
- 2005 | *Weak Interactions and Neutrinos (2005), Delphi, Greece.* Presentation Title: "Measuring the Top Quark Mass at the Tevatron"
- 2005 | *University of California, Irvine, Particle Physics Seminar (2005), Irvine, CA.* Presentation Title: "Precision Electroweak and Top Quark Measurements at the Energy Frontier". Seminar also given in 2005 at: *Johns Hopkins University, Cornell University, University of Minnesota, LBNL, Indiana University*
- 2004 | *University of Washington High Energy Physics Seminar (2004), Seattle, WA.* Presentation Title: "A View of the Top and the Electroweak"
- 2003 | *University of Maryland High Energy Physics Seminar (2003), College Park, MD.* Presentation Title: "A View of the Top and the Electroweak"
- 2001 | *Frontiers in Contemporary Physics - II (2001), Nashville, TN.* Presentation Title: "Recent Results of Leptonic Kaon Decays from KTeV"
- 2000 | *Intersections of Particle and Nuclear Physics Conference (2000), Quebec City, Canada.* Presentation Title: "Rare Kaon Decays at KTeV"
- 1999 | *APS Centennial (1999), Atlanta, GA.* Presentation Title: " $\pi^0 \rightarrow e^+e^-e^+e^-$ and $K_L \rightarrow e^+e^-e^+e^-$ in KTeV"
- 1997 | *New Perspectives (1997), Fermilab, Batavia, IL.* Presentation Title: "Rare Kaon Decays at KTeV"

Other Presentations, Lectures, Demonstrations (TV, Radio)

- 2011 | *Bunting-Cobb Night with Faculty (April 2011), Bunting-Cobb, Douglass Campus.*
- 2010 | *NJ Science Teachers Convention (2010, 2008).* Presentation Title: "Physics at the High Energy Frontier"
- 2009 | *Exploring Science Majors at Rutgers (April 2009), Bunting-Cobb, Douglass Campus.*

2008 *NJN News Report (November 2008), "Rutgers University LHC physics program"*

Service

Research

- 2012-ongoing | Convener, CMS SUSY Physics Group. There are nine physics analysis groups at CMS each led by two co-conveners for a two year period. I was appointed co-convener of SUSY physics group in September 2011, with the convenership officially starting in 2012, and the overlap period starting immediately.
- 01/2011-ongoing | Organizer, Aspen Winter Conference, February 2012
- 2011-ongoing | Analysis Review Committees or ARC (CMS): Committee is appointed to review analysis prior to publication. Committee is also charged with evaluating the scope and contents of the paper, as well as the journal to be submitted.
- ARC, Chair, *Measurement of the t - t bar cross section in the e/μ +jets channel at CMS*, July 2011-Present
- 2011 | Organizer, Boost 2011 Workshop, Princeton University, May 2011
- 2011 | Facilitator, Jets Exercises, CMS Data Analysis School at the LPC at Fermilab, January 2011
- 2010 | External Reviewer, Thesis Defense Committee M. Cooke, Columbia University, September 2010
- 2009-ongoing | Convener, CMS Exotica Multijets Physics Subgroup. There are nine physics analysis groups at CMS each led by two co-conveners for a two year period. I am co-leader of the sub-group of the CMS Exotica physics group; I was the sole leader of this group for the first five months.
- 2009 | Convener, Electroweak Session, Europhysics Conference on High Energy Physics, July 2009
- 2009 | Facilitator, $Z \rightarrow e^+e^-$ Cross Section Exercise, CMS LPC EJTERM at Fermilab, January 2009
- 2008-ongoing | Reviewer, NSF Panel and Proposal Reviewer: The panels I have served on have, for example, consisted of three experts appointed to evaluate groups involved in the LHC and other experiments. The reviews have been "reverse site visits" of proponents of NSF proposals as well as "site visits" to the university of the group being evaluated. I have also served as a reviewer of proposals, submitting a written report.
- 2008 | Member, CDF Spokes-person Election Committee 2008
- 2008 | External Reviewer, Dissertation Committee for Tuula Maki, Helsinki University of Technology, January 2008
- 2007-ongoing | Referee, Physical Review D
- 2007 | Convenor, Top and Electroweak Physics Session, Hadron Collider Physics Symposium 2007
- 2007 | Referee, FIZIKA A & B (Croatian Physical Society)

2006-2008	Convenor, CDF Electroweak Physics Group. There are six physics groups at CDF (QCD, Electroweak, Top, Bottom, Exotics, and Higgs) each led by two co-conveners for a two year period.
2006	Facilitator, Hadron Collider Physics Summer School 2006
2006	Convenor, Top Mass Session, APS April Meeting 2006
2004-2005	Convenor, CDF Top Mass Working Group. At CDF at the time, there were sub-working groups within the Top physics group each led by two co-conveners for a two year period.
2003-ongoing	Member, Tevatron Electroweak Working Group, Batavia, IL
2003	CDF Tour Guide, Lepton Photon 2003
2002-ongoing	Godparent Committees (CDF): Committee is appointed to review analysis prior to publication. Committee is also charged with evaluating the scope and contents of the paper, as well as the journal to be submitted. <ul style="list-style-type: none"> • God-Parent, <i>Chair, Search for W and Z Bosons plus additional soft leptons</i>, July 2011-Present • God-Parent, <i>Top quark mass measurement using events with missing energy and jets at CDF</i>, April 2011-Present • God-Parent, <i>Measurement of the Top Quark Mass in the Lepton+Jets Channel Using the Lepton Transverse Momentum</i>, December 2009 - January 2011 • God-Parent, <i>Chair, Search for Higgs bosons in two-Higgs-doublet models via decays to tau lepton pairs in 1.96 TeV p-pbar collisions</i>, August 2008 - 2009 • God-Parent, <i>Chair, Search for R-Parity Violating Supersymmetry in the Multilepton Final State</i>, May 2006 - March 2007 • God-Parent, <i>Measurement of the t-tbar Production Cross Section in p-pbar collisions at $\sqrt{s}=1.96$ TeV using Lepton + Jets Events with Jet Probability b-tagging</i>, Oct. 2005 - Oct. 2006 • God-Parent, <i>Measurement of the t-tbar Production Cross Section in p-pbar Collisions at $\sqrt{s}=1.96$ TeV</i>, Oct. 2005 - July 2006 • God-Parent, <i>CDF Run I Measurements of the W Decay Angle Coefficients</i>, 2002 - 2005
2002-2004	Convenor, <i>CDF W & Z Cross Section Working Group</i>
2002	Working Group Leader, CDF Silicon Data Monitoring Working Group
2001-2003	Convenor, <i>CDF Electron Task Force</i>

Service to Other Public Bodies

2008	<i>Contributed to TV report on the LHC for local news station NJN (November 2008), "Rutgers University LHC physics program"</i>
2007-ongoing	Participant, <i>Quarknet Program</i> , Summer program with NJ High School Teachers and Students
2006	Wrote article in "Symmetry": An outreach magazine on particle physics (December 2006)

Memberships

Membership/Offices Held in Scholarly and Professional Societies

1999-ongoing | Member, American Physical Society, 2011-present, 2008-2009, 2006-2007, 1999-2000

Students Supervised

Master's or Doctoral Students by Type of Supervision

- 2011 | Doctoral - Primary: Claudia Seitz: 2011-Present, "Search for New Hadronic Resonance using Jet Ensembles at CMS" [Primary Advisor]
- 2011 | Doctoral - Primary: Daryl Hare: Fall 2005-Present, "Measurement of top quark properties in the tau+jets channel at CDF" [Primary Advisor]
- 2011 | Master's - Primary: Claudia Seitz (Defended): Fall 2010-2011, "Search for New Hadronic Resonance using Jet Ensembles at CDF". Was in exchange program with the U. of Wurzburg, now in Rutgers Ph.D program. [Primary Advisor]
- 2007 | Doctoral - Committee: Jared Yamaoka (Defended): Spring 2006-Fall 2007, "Measurement of the relative fraction of t \bar{t} events produced via gluon-fusion at CDF," Although I was not Jared Yamaoka's official supervisor, I worked very closely with him. [Secondary Advisor]

Postdoctoral Trainees

- 2011 | Dan Duggan: 2009 - Present
- 2011 | Dean Hidas: 2009 - Present
- 2009 | Shan-Huei Chuang: 2007-2009, Now at the Instituto de Fisica de Cantabria in Spain.

Publications

Significant Publications

- 2011 | **"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](https://arxiv.org/abs/1108.1601), Accepted by Phys. Rev. D Rapid Comm., September 2011, 9 pages.
- 2011 | **"Search for Three-Jet Resonances in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], [Phys. Rev. Lett. **107**, 101801-1 - 101801-15 \(2011\)](https://arxiv.org/abs/101801-1-101801-15).
- 2011 | **"Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], [JHEP **06**, 093, 28 pages \(2011\)](https://arxiv.org/abs/1006.093).
- 2011 | **"First Search for Multijet Resonances in $\sqrt{s} = 1.96$ TeV p-pbar Collisions,"** T. Aaltonen *et al.* [CDF Collaboration], [Phys. Rev. Lett. **107**, 042001-1 - 042001-7 \(2011\)](https://arxiv.org/abs/10042001-1-042001-7).
- 2009 | **"Direct Measurement of the W Production Charge Asymmetry in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], [Phys. Rev. Lett. **102**, 181801-1 - 181801-7 \(2009\)](https://arxiv.org/abs/0903181).
- 2009 | **"Measurement of the fraction of t-tbar production via gluon-gluon fusion in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], [Phys. Rev. D **79**, 031101-1 - 031101-8 \(R\) \(2009\)](https://arxiv.org/abs/09031101-1-031101-8).

- 2008 **“New analysis technique to measure the W production charge asymmetry at the Fermilab Tevatron,”** A. Bodek, Y. Chung, E. Halkiadakis, B. Y. Han and K. McFarland, [Phys. Rev. D 77, 111301-1 - 111301-5 \(R\) \(2008\)](#).
- 2007 **“Measurements of Inclusive W and Z Cross Sections in p-pbar Collisions at $\sqrt{s}=1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], [J. Phys. G: Nucl. Part. Phys. 2457, 89 pages \(2007\)](#).
- 2005 **“First measurements of inclusive W and Z cross sections from Run II of the Tevatron collider,”** D. Acosta *et al.* [CDF Collaboration], [Phys. Rev. Lett. 94, 091803-1 - 091803-7 \(2005\)](#).
- 2004 **“Measurement of the t-tbar production cross section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV using dilepton events,”** D. Acosta *et al.* [CDF Collaboration], [Phys. Rev. Lett. 93, 142001-1 - 142001-7 \(2004\)](#).
- 2001 **“Measurements of the rare decay $K_L \rightarrow e^+e^-e^+e^-$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], [Phys. Rev. Lett. 86, 5425-5429 \(2001\)](#).

Other Major Publications

- 2011 **“Search for New Physics with a Mono-Jet and Missing Transverse Energy in pp Collisions at $\sqrt{s} = 7$ TeV,”** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.4775 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 27 pages (*CMS Exotica Multijets Group Convener*)
- 2011 **“Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\sqrt{s} = 7$ TeV,”** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 201804-1 - 201804-14 (2011). (*CMS Exotica Multijets Group Convener*)
- 2011 **“Measurement of the Top Quark Mass in the Lepton+Jets Channel Using the Lepton Transverse Momentum,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Lett. **B698**, 371-379 (2011). (*Served as God-Parent*)
- 2011 **“Search for Microscopic Black Hole Signatures at the Large Hadron Collider,”** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B697**, 434-453 (2011). (*CMS Exotica Multijets Group Convener*)
- 2010 **“Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s} = 7$ TeV,”** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **105**, 262001-1 - 262001-15 (2010). (*CMS Exotica Multijets Group Convener*)
- 2010 **“Search for Dijet Resonances in 7 TeV pp Collisions at CMS,”** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **105**, 211801-1 - 211801-24 (2010). (*CMS Exotica Multijets Group Convener*)
- 2009 **“Search for Higgs Bosons Predicted in Two-Higgs-Doublet Models via Decays to Tau Lepton Pairs in 1.96 TeV p-pbar Collisions,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 201801-1 - 201801-8 (2009). (*Served as God-Parent Chair*)
- 2008 **“First Measurement of ZZ Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 201801-1 - 201801-7 (2008). (*CDF Electroweak Group Convener*)

- 2008 **“A direct Measurement of the W Boson Width in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 071801-1 - 071801-7 (2008). (*CDF Electroweak Group Convener*)
- 2008 **“First Run II Measurement of the W Boson Mass,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 112001-1 - 112001-48 (2008). (*CDF Electroweak Group Convener*)
- 2007 **“Limits on Anomalous Triple Gauge Couplings in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **76**, 111103-1 - 111103-8 (2007). (*CDF Electroweak Group Convener*)
- 2011 **“Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS,”** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.4771 [hep-ex], Accepted by Phys. Lett. B. September 2011, 27 pages (*CMS Exotica Multijets Group Convener*)
- 2007 **“Precise measurement of the top quark mass in the lepton+jets topology at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett **99**, 182002-1 - 182002-7 (2007). (*CDF Top Mass Group Convener*)
- 2007 **“First Measurement of the W Boson Mass in Run II of the Tevatron,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 151801-1 - 151801-7 (2007). (*CDF Electroweak Group Convener*)
- 2007 **“First Measurement of the Ratio of Central-Electron to Forward-Electron W Partial Cross Sections in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 251801-1 - 251801-7 (2007). (*CDF Electroweak Group Convener*)
- 2007 **“Observation of WZ Production,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 161801-1 - 161801-7 (2007). (*CDF Electroweak Group Convener*)
- 2007 **“Measurement of $\sigma(p\text{-}p\text{-bar} \rightarrow Z\text{ Br} (Z \rightarrow 2\tau))$ in p p-bar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 092004-1 - 092004-26 (2007). (*CDF Electroweak Group Convener*)
- 2007 **“Measurement of the Top Quark Mass in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV using the Decay Length Technique,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 071102-1 - 071102-9 (2007). (*CDF Top Mass Group Convener*)
- 2007 **“Search for anomalous production of multi-lepton events in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 131804-1 - 131804-7 (2007). (*Served as God-Parent Chair*)
- 2006 **“Top quark mass measurement from dilepton events at CDF II with the matrix-element method,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 032009-1 – 032009-20 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Measurement of the t-tbar Production Cross Section in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 082004-1 - 082004-7 (2006). (*Served as God-Parent*)

- 2006 **“Measurement of the t-tbar Production Cross Section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV using Lepton + Jets Events with Jet Probability b-tagging,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 072006-1 - 072006-38 (2006). (*Served as God-Parent*)
- 2006 **“Top quark mass measurement from dilepton events at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 152002-1 – 152002-7 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Measurement of the top quark mass using template methods on dilepton events in proton antiproton collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 112006-1 – 112006-23 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Measurement of the top quark mass with the dynamical likelihood method using lepton plus jets events with b-tags in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 092002-1 - 092002-26 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Precision top quark mass measurement in the lepton + jets topology in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 022004-1 – 022004-7 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Top quark mass measurement using the template method in the lepton + jets channel at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 032003-1 – 032003-35 (2006). (*CDF Top Mass Group Convener*)
- 2006 **“Measurement of the azimuthal angle distribution of leptons from W boson decays as a function of the W transverse momentum in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **73**, 052002-1 – 052002-29 (2006). (*Served as God-Parent*)
- 2005 **“Measurement of the forward-backward charge asymmetry of electron positron pairs in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 052002-1 – 052002-30 (2005).
- 2004 **“Measurement of the polar-angle distribution of leptons from W boson decay as a function of the W transverse momentum in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **70**, 032004-1 – 032004-21 (2004). (*Served as God-Parent*)
- 2004 **“Combination of CDF and D0 results on W boson mass and width,”** V. M. Abazov *et al.* [CDF Collaboration and D0 Collaboration], Phys. Rev. D **70**, 092008-1 – 092008-17 (2004).
- 2004 **“Measurements of Direct CP Violation, CPT Symmetry, and Other Parameters in the Neutral Kaon System,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. D **67**, 012005-1 – 012005-33 (2003). [Erratum-ibid. D **70**, 079904 (2004).]
- 2001 **“Branching Ratio Measurement of the decay $K_L \rightarrow e^+ e^- \mu^+ \mu^-$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **87**, 111802-1 – 111802-5 (2001).

Other Publications

- 2011 **"Measurement of the t-tbar Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1108.3773 [hep-ex], Submitted to Phys. Rev. D., 2011, 39 pages.
- 2011 **"Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1108.2044 [hep-ex], Accepted by Phys. Rev. D., 2011, 45 pages.
- 2011 **"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], Submitted to Phys. Rev. Lett., 2011, 16 pages.
- 2011 **"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], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Measurement of the Drell-Yan Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1108.0566 [hep-ex], Submitted to Phys. Lett. B., 2011, 37 pages.
- 2011 **"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], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Search for B(s) and B to dimuon decays in pp collisions at 7 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.5834 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 27 pages.
- 2011 **"A search for resonant production of t-tbar pairs in 4.8 fb^{-1} of integrated luminosity of p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.5063 [hep-ex], Submitted to Phys. Rev. D., 2011, 8 pages.
- 2011 **"Measurement of Polarization and Search for CP-Violation in $B_s^0 \rightarrow \varphi\varphi$ Decays,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.4999 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Measurement of the Inclusive W and Z Production Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.4789 [hep-ex], Submitted to JHEP., 2011, 68 pages.
- 2011 **"Dependence on pseudorapidity and centrality of charged hadron production in PbPb collisions at a nucleon-nucleon centre-of-mass energy of 2.76 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.4800 [nucl-ex], Submitted to JHEP., 2011, 35 pages.
- 2011 **"Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.4277 [physics.ins-det], Submitted to J. Instrum., 2011, 67 pages.
- 2011 **"Search for a Heavy Top-Like Quark in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.3875 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 9 pages.

- 2011 **"Observation of the Ξ_b^0 Baryon,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.4015 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 6 pages.
- 2011 **"Search for new physics in $t\bar{t} + \text{MET} \rightarrow b\bar{b}q\bar{q} + \text{MET}$ final state in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.3574 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Observation of the Baryonic Flavor-Changing Neutral Current Decay $\Lambda_b^0 \rightarrow \Lambda \mu^+ \mu^-$,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1107.3753 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"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], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.1870 [hep-ex], Submitted to JHEP., 2011, 41 pages.
- 2011 **"A search for excited leptons in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration] arXiv:1107.1773 [hep-ex], Submitted to Phys. Lett. B., 2011, 29 pages.
- 2011 **"Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1107.1279 [hep-ex], Submitted to Phys. Rev. D., 2011, 42 pages.
- 2011 **"Measurement of the Underlying Event Activity at the LHC with $\sqrt{s} = 7$ TeV and Comparison with $\sqrt{s} = 0.9$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration] arXiv:1107.0330 [hep-ex], Accepted by JHEP., 2011, 28 pages.
- 2011 **"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], arXiv:1106.5952 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Measurement of the Cross Section for Prompt Isolated Diphoton Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1106.5123 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Measurement of the Cross Section for Prompt Isolated Diphoton Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1106.5131 [hep-ex], Submitted to Phys. Rev. D., 2011, 33 pages.
- 2011 **"Missing transverse energy performance of the CMS detector,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.5048 [physics.ins-det], Submitted to J. Instrum., 2011, 56 pages.
- 2011 **"Search for Higgs Bosons Produced in Association with b-Quarks,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1106.4782 [hep-ex], Submitted to Phys. Rev. D., 2011, 19 pages.

- 2011 **"Search for New Physics with Jets and Missing Transverse Momentum in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.4503 [hep-ex], Submitted to JHEP., 2011, 43 pages.
- 2011 **"Measurement of the Strange B Meson Production Cross Section with $J/\psi \phi$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.4048 [hep-ex], Submitted to Phys. Rev. D Rapid Comm., 2011, 26 pages.
- 2011 **"Evidence for t-tbar γ Production and Measurement of $\sigma(t\text{-tbar } \gamma)/\sigma(t\text{-tbar})$,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1106.3970 [hep-ex], Submitted to Phys. Rev. D., 2011, 9 pages.
- 2011 **"Measurement of branching ratio and B^0_s lifetime in the decay $B^0 \rightarrow J/\psi f_0(980)$ at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1106.3682 [hep-ex], Submitted to Phys. Rev. D., 2011, 14 pages.
- 2011 **"Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1107**, 113, 26 pages, (2011).
- 2011 **"Measurement of the t-channel single top quark production cross section in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.3052 [hep-ex], Accepted by Phys. Rev. Lett., 2011, 27 pages.
- 2011 **"Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1107**, 098, 33 pages, (2011).
- 2011 **"Search for Same-Sign Top-Quark Pair Production at $\sqrt{s} = 7$ TeV and Limits on Flavour Changing Neutral Currents in the Top Sector,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1108**, 005, 27 pages, (2011).
- 2011 **"Measurement of the t-tbar Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV using the Kinematic Properties of Events with Leptons and Jets,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.0902 [hep-ex], Accepted by EPJC., 2011, 39 pages.
- 2011 **"Search for Physics Beyond the Standard Model Using Multilepton Signatures in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.0933 [hep-ex], Submitted to Phys. Lett. B., 2011, 33 pages.
- 2011 **"Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B702**, 336-354 (2011).
- 2011 **"Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1106.0208 [hep-ex], Accepted by Phys. Rev. Lett., 2011, 24 pages.
- 2011 **"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], Phys. Rev. **D84**, 012003-1 - 012003-17 (2011).

- 2011 **"Measurement of the t-tbar production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1107**, 049, 49 pages, (2011).
- 2011 **"Search for First Generation Scalar Leptoquarks in the evjj channel in pp collisions at $\sqrt{s} = 7$ TeV"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B703**, 246-266 (2011).
- 2011 **"Indications of suppression of excited Y states in PbPb collisions at $\sqrt{s}_{NN} = 2.76$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **107**, 052302-1 - 052302-15 (2011).
- 2011 **"Measurement of W-gamma and Z-gamma production in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B701**, 535-555.
- 2011 **"Long-range and short-range dihadron angular correlations in central PbPb collisions at a nucleon-nucleon center of mass energy of 2.76 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1105.2438 [nucl-ex], Submitted to JHEP., 2011, 30 pages.
- 2011 **"Measurement of the t-tbar production cross section in p-pbar 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], Submitted to Phys. Rev. D., 2011, 12 pages.
- 2011 **"Top quark mass measurement using the template method at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 111101-1 - 111101-9 (2011).
- 2011 **"Search for a Very Light CP-Odd Higgs Boson in Top Quark Decays from p-pbar Collisions at 1.96 TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **107**, 031801-1 - 031801-7 (2011).
- 2011 **"Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1104.3547 [hep-ex], Accepted by JHEP., 2011, 36 pages.
- 2011 **"Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **107**, 021802-1 - 021802-15 (2011).
- 2011 **"Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1106**, 077, 47 pages, (2011).
- 2011 **"Measurement of the B^0 production cross section in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 252001-1 - 252001-15 (2011).
- 2011 **"Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B700**, 187-206 (2011).
- 2011 **"Search for the Rare Radiative Decay: $W \rightarrow \pi\gamma$ in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1104.1585 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 15 pages.

- 2011 **"Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1104.1617 [hep-ex], Submitted to JHEP., 2011, 28 pages.
- 2011 **"Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 231801-1 - 231801-15 (2011).
- 2011 **"Invariant Mass Distribution of Jet Pairs Produced in Association with a W boson in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 171801-1 - 171801-8 (2011).
- 2011 **"Measurements of Direct CP Violating Asymmetries in Charmless Decays of Strange Bottom Mesons and Bottom Baryons,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 181802-1 - 181802-7 (2011).
- 2011 **"First Measurement of the Angular Coefficients of Drell-Yan e^+e^- pairs in the Z Mass Region from p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 241801-1 - 241801-7 (2011).
- 2011 **"Measurement of Event Shapes in Proton-Antiproton Collisions at Center-of-Mass Energy 1.96 TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 112007-1 - 112007-13 (2011).
- 2011 **"Search for New Dielectron Resonances and Randall-Sundrum Gravitons at the Collider Detector at Fermilab,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **107**, 051801-1 - 051801-7 (2011).
- 2011 **"Measurement of the Top Pair Production Cross Section in the Lepton + Jets Channel Using a Jet Flavor Discriminant,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D84**, 031101-1 - 031101-7 (2011).
- 2011 **"Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1105**, 085, 28 pages, (2011).
- 2011 **"Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1104**, 050, 31 pages, (2011).
- 2011 **"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], 2011, 34 pages.
- 2011 **"Measurement of the mass difference between t and tbar quarks,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 152001-1 - 152001-7 (2011).
- 2011 **"Limits on Anomalous Trilinear Gauge Couplings in Zy Events from p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **107**, 051802-1 - 051802-8 (2011).
- 2011 **"Search for Production of Heavy Particles Decaying to Top Quarks and Invisible Particles in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 191801-1 - 191801-7 (2011).

- 2011 **"Measurement of the B_s Lifetime in Fully and Partially Reconstructed $B_s \rightarrow D_s^-(\phi\pi^+)X$ Decays in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1103.1864 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.
- 2011 **"Search for Physics Beyond the Standard Model in Opposite-Sign Dilepton Events at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1106**, 026, 33 pages, (2011).
- 2011 **"Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 211802-1 - 211802-15 (2011).
- 2011 **"Search for Resonances in the Dilepton Mass Distribution in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], JHEP **1105**, 093, 35 pages, (2011).
- 2011 **"Search for a W' boson decaying to a muon and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B701**, 160-179 (2011).
- 2011 **"Measurement of W^+W^- Production and Search for the Higgs Boson in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B699**, 25-47 (2011).
- 2011 **"Study of Z boson production in PbPb collisions at nucleon-nucleon centre of mass energy = 2.76 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 212301-1 - 212301-14 (2011).
- 2011 **"Search for a Heavy Bottom-like Quark in pp Collisions at $\sqrt{s} = 7$ TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], Phys. Lett. **B701**, 204-223 (2011).
- 2011 **"Search for New Heavy Particles Decaying to $ZZ \rightarrow llll, lljj$ in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 112008-1 - 112008-18 (2011).
- 2011 **"Strange Particle Production in pp Collisions at $\sqrt{s} = 0.9$ and 7 TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1105**, 064, 40 pages, (2011).
- 2011 **"Measurement of B Bbar Angular Correlations based on Secondary Vertex Reconstruction at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1103**, 136, 33 pages, (2011).
- 2011 **"Observation and studies of jet quenching in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV,"** S. Chatrchyan *et al.* [CMS Collaboration], arXiv:1102.1957 [nucl-ex], 2011, 44 pages.
- 2011 **"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], Phys. Rev. **D83**, 052012-1 - 052012-11 (2011).
- 2011 **"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.* [CDF Collaboration], arXiv:1101.6058 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 7 pages.

- 2011 | **"Search for the Higgs boson in the all-hadronic final state using the CDF II detector,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1102.0024 [hep-ex], Submitted to Phys. Rev. Lett., 2011, 12 pages.
- 2011 | **"First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B699**, 48-67 (2011).
- 2011 | **"Search for heavy bottom-like quarks decaying to an electron or muon and jets in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 141803-1 - 141803-7 (2011).
- 2011 | **"Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 122003-1 - 122003-15 (2011).
- 2011 | **"Search for High Mass Resonances Decaying to Muon Pairs in $\sqrt{s} = 1.96$ TeV p-pbar Collisions,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 121801-1 - 121801-7 (2011).
- 2011 | **"Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1103**, 090, 29 pages, (2011).
- 2011 | **"Measurement of Bose-Einstein Correlations in pp Collisions at $\sqrt{s} = 0.9$ and 7 TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1105**, 029, 29 pages, (2011).
- 2011 | **"Production of Lambda, Cascade and Omega Hyperons in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], arXiv:1101.2996 [hep-ex], 2011, 19 pages
- 2011 | **"Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B698**, 196-218 (2011).
- 2011 | **"Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1103**, 024, 29 pages, (2011).
- 2011 | **"Measurement of the Forward-Backward Asymmetry in the $B \rightarrow K^* \mu^+ \mu^-$ Decay and First Observation of the $B^0 \rightarrow \phi \mu^+ \mu^-$ Decay,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 161801-1 - 161801-7 (2011).
- 2011 | **"Measurement of the B^+ Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 112001-1 - 112001-15 (2011).
- 2011 | **"Evidence for a Mass Dependent Forward-Backward Asymmetry in Top Quark Pair Production,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 112003-1 - 112003-23 (2011).
- 2011 | **"Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B698**, 21-39 (2011).

- 2011 **"Measurement of the Inclusive Upsilon production cross section in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. **D83**, 112004-1 - 112004-27 (2011).
- 2011 **"Boosted objects: A Probe of beyond the Standard Model physics,"** A. Abdesselam *et al.*, Eur. Phys. J. **C71**, 1661, 19 pages, (2011).
- 2011 **"Search for a New Heavy Gauge Boson W' with Electron + missing E_T Event Signature in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 031102-1 - 031102-7 (2011).
- 2011 **"Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration] Phys. Rev. Lett. **106**, 201802-1 - 201802-15 (2011).
- 2011 **"Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV."** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 201803-1 - 201803-15 (2011).
- 2011 **"Measurement of t-tbar Spin Correlation in p-ppbar Collisions Using the CDF II Detector at the Tevatron,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 031104-1 - 031104-7 (2011).
- 2011 **"Measurement of b hadron lifetimes in exclusive decays containing a J/ψ in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **106**, 121804-1 - 121804-8 (2011).
- 2011 **"Measurements of Inclusive W and Z Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1101**, 080, 40 pages, (2011).
- 2011 **"Search for Randall-Sundrum Gravitons in the Diphoton Channel at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 011102-1 - 011102-8 (2011).
- 2011 **"Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 082001-1 - 082001-15 (2011).
- 2011 **"Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36,$ and 7 TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1101**, 079, 38 pages, (2011).
- 2011 **"Search for Stopped Gluinos in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **106**, 011801-1 - 011801-15 (2011).
- 2011 **"Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Eur. Phys. J. **C71**, 1575, 36 pages, (2011).
- 2011 **"First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B695**, 424-443 (2011).
- 2011 **"Measurement of the t-tbar Production Cross Section with an in situ Calibration of b-jet Identification Efficiency,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 071102-1 - 071102-17 (2011).

- 2011 **"Measurement of the B^- lifetime using a simulation free approach for trigger bias correction,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D83**, 032008-1 - 032008-30 (2011).
- 2010 **"Top Quark Mass Measurement in the Lepton + Jets Channel Using a Matrix Element Method and in situ Jet Energy Calibration,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 252001-1 - 252001-7 (2010).
- 2010 **"Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC,"** V. Khachatryan *et al.* [CMS Collaboration] JHEP **1009**, 091, 38 pages, (2010).
- 2010 **"Improved Search for a Higgs Boson Produced in Association with $Z \rightarrow l^+l^-$ in proton antiproton Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 251802-1 - 251802-7 (2010).
- 2010 **"Search for the supersymmetric partner of the top quark in ppbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 092001-1 - 092001-17 (2010).
- 2010 **"Updated Search for the Flavor-Changing Neutral-Current Decay $D^0 \rightarrow \mu^+\mu^-$,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 091105-1 - 091105-8 (2010).
- 2010 **"Measurement of the $W W + W Z$ Production Cross Section Using a Matrix Element Technique in Lepton + Jets Events,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 112001-1 - 112001-15 (2010).
- 2010 **"Direct Top-Quark Width Measurement CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 232003-1 - 232003-8 (2010).
- 2010 **"Diffractive W and Z Production at the Fermilab Tevatron,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 112004-1 - 112004-10 (2010).
- 2010 **"CMS Tracking Performance Results from early LHC Operation,"** V. Khachatryan *et al.* [CMS Collaboration], Eur. Phys. J. **C70**, 1165-1192 (2010).
- 2010 **"Exclusion of an Exotic Top Quark with $-4/3$ Electric Charge Using Soft Lepton Tagging,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 101801-1 - 101801-7 (2010).
- 2010 **"First Measurement of the Underlying Event Activity at the LHC with $\sqrt{s} = 0.9$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Eur. Phys. J. **C70**, 555-572 (2010).
- 2010 **"Measurement of the charge ratio of atmospheric muons with the CMS detector,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B692**, 83-104 (2010).
- 2010 **"Measurement of $d\sigma/dy$ of Drell-Yan e^+e^- pairs in the Z Mass Region from p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. A. Aaltonen *et al.* [CDF Collaboration], Phys. Lett. **B692**, 232-239 (2010).

- 2010 **"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 Collaborations], Phys. Rev. **D82**, 011102-1 - 011102-14 (2010).
- 2010 **"Measurement of Bose-Einstein correlations with first CMS data,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **105**, 032001-1 - 032001-14 (2010).
- 2010 **"Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 7$ TeV,"** V. Khachatryan *et al.* [CMS Collaboration], Phys. Rev. Lett. **105**, 022002-1 - 022002-14 (2010).
- 2010 **"Search for the Production of Scalar Bottom Quarks in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 081802-1 - 081802-7 (2010).
- 2010 **"Search for WW and WZ resonances decaying to electron, missing ET, and two jets in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 241801-1 - 241801-8 (2010).
- 2010 **"Search for R-parity Violating Decays of τ sneutrinos to $e\mu$, $\mu\tau$, and $e\tau$ Pairs in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 191801-1 - 191801-7 (2010).
- 2010 **"First Measurement of the Ratio $\sigma(t\text{-tbar})/\sigma(Z/\gamma^* \rightarrow ll)$ and Precise Extraction of the t-tbar Cross Section,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 012001-1 - 012001-7 (2010).
- 2010 **"Observation of Single Top Quark Production and Measurement of V_{tb} with CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 112005-1 - 112005-62 (2010).
- 2010 **"Measurement of $Z\gamma$ Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 031103-1 - 031103-9 (2010).
- 2010 **"Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 034001-1 - 034001-21 (2010).
- 2010 **"Measurement of W-Boson Polarization in Top-quark Decay in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 042002-1 - 042002-8 (2010).
- 2010 **"Measurement of the t-tbar Production Cross Section in p-pbar Collisions at $\sqrt{s}=1.96$ TeV using Soft Electron b-Tagging,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 092002-1 - 092002-18 (2010).
- 2010 **"Measurement of the Top Pair Production Cross Section in the Dilepton Decay Channel in ppbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D82**, 052002-1 - 052002-20 (2010).
- 2010 **"Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=0.9$ and 2.36 TeV,"** V. Khachatryan *et al.* [CMS Collaboration], JHEP **1002**, 041, 31 pages, (2010).

- 2010 **"Measurement of the Top Quark Mass and $p\text{-}\bar{p}$ $\rightarrow t\text{-}\bar{t}$ Cross Section in the All-Hadronic Mode with the CDFII Detector,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 052011-1 - 052011-20 (2010).
- 2010 **"Combination of Tevatron searches for the standard model Higgs boson in the W^+W^- decay mode,"** T. Aaltonen *et al.* [CDF and D0 Collaboration], Phys. Rev. Lett. **104**, 061802-1 - 061802-11 (2010).
- 2010 **"Inclusive Search for Standard Model Higgs Boson Production in the WW Decay Channel using the CDF II Detector,"** T. Aaltonen *et al.* [The CDF Collaboration], Phys. Rev. Lett. **104**, 061803-1 - 061803-8 (2010).
- 2010 **"Search for single top quark production in $p\text{-}\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV in the missing transverse energy plus jets topology,"** T. Aaltonen *et al.* [The CDF Collaboration], Phys. Rev. **D81**, 072003-1 - 072003-24 (2010).
- 2010 **"Search for New Physics with a Dijet plus Missing Transverse Energy Signature in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **105**, 131801-1 - 131801-7 (2010).
- 2010 **"Measurement of the W^+W^- Production Cross Section and Search for Anomalous $WW\gamma$ and WWZ Couplings in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 201801-1 - 201801-7 (2010).
- 2010 **"Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ Decays in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 102002-1 - 102002-8 (2010).
- 2010 **"A Study of the associated production of photons and b-quark jets in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 052006-1 - 052006-8 (2010).
- 2010 **"Search for Technicolor Particles Produced in Association with a W Boson at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 111802-1 - 111802-9 (2010).
- 2010 **"Search for Pair Production of Supersymmetric Top Quarks in Dilepton Events from $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 251801-1 - 251801-8 (2010).
- 2010 **"Search for New Bottomlike Quark Pair Decays $Q\text{-}\bar{Q} \rightarrow (t\text{-}\bar{t})W^{+-}$ in Same-Charge Dilepton Events,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 091801-1 - 091801-7 (2010).
- 2010 **"Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03007, 37 pages, (2010)
- 2010 **"Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03002, 49 pages, (2010).

- 2010 **"Measurement of the Muon Stopping Power in Lead Tungstate,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, P03007, 31 pages, (2010).
- 2010 **"Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03008, 45 pages, (2010).
- 2010 **"Performance of CMS Muon Reconstruction in Cosmic-Ray Events,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03022, 47 pages, (2010).
- 2010 **"Performance of the CMS Cathode Strip Chambers with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03018, 35 pages, (2010).
- 2010 **"Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03012, 37 pages, (2010).
- 2010 **"Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03004, 33 pages, (2010).
- 2010 **"Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03016, 37 pages, (2010).
- 2010 **"Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03003, 31 pages, (2010).
- 2010 **"Commissioning of the CMS High-Level Trigger with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03005, 31 pages, (2010).
- 2010 **"Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03014, 29 pages, (2010).
- 2010 **"Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03013, 31 pages, (2010).
- 2010 **"Performance of the CMS Drift Tube Chambers with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03015, 45 pages, (2010).
- 2010 **"Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03001, 37 pages, (2010).
- 2010 **"CMS Data Processing Workflows during an Extended Cosmic Ray Run,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03006, 43 pages, (2010).
- 2010 **"Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03019, 35 pages, (2010).

- 2010 **"Measurement of the WW+WZ Production Cross Section Using the Lepton+Jets Final State at CDF II,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 101801-1 - 101801-8 (2010).
- 2010 **"Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03017, 33 pages, (2010).
- 2010 **"Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03011, 27 pages, (2010).
- 2010 **"Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03020, 41 pages, (2010).
- 2010 **"A Search for the Higgs Boson Using Neural Networks in Events with Missing Energy and b-quark Jets in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 141801-1 - 141801-8 (2010).
- 2010 **"Search for New Color-Octet Vector Particle Decaying to t-tbar in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Lett. **B691**, 183-190 (2010).
- 2010 **"Top Quark Mass Measurement using m_{T2} in the Dilepton Channel at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 031102-1 - 031102-9 (2010).
- 2010 **"Measurements of branching fraction ratios and CP asymmetries in $B^{+-} \rightarrow D(\text{CP}) K^{+-}$ decays in hadron collisions,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 031105-1 - 031105-9 (2010).
- 2010 **"Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03021, 35 pages, (2010).
- 2010 **"Search for Anomalous Production of Events with Two Photons and Additional Energetic Objects at CDF,"** T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. **D82**, 052005-1 - 052005-27 (2010).
- 2010 **"Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events with Missing Transverse Energy at CDF II,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 011801-1 - 011801-8 (2010).
- 2010 **"Performance and Operation of the CMS Electromagnetic Calorimeter,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03010, 39 pages, (2010).
- 2010 **"Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays,"** S. Chatrchyan *et al.* [CMS Collaboration], JINST **5**, T03009, 39 pages, (2010).
- 2010 **"Measurements of the top-quark mass using charged particle tracking,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D81**, 032002-1 - 032002-22 (2010).

- 2010 **"First Measurement of the b-jet Cross Section in Events with a W Boson in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **104**, 131801-1 - 131801-8 (2010).
- 2009 **"Measurement of the Inclusive Isolated Prompt Photon Cross Section in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV using the CDF Detector,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 111106-1 - 111106-8 (2009).
- 2009 **"A Search for the Higgs Boson Produced in Association with $Z \rightarrow I^+ I^-$ Using the Matrix Element Method at CDF II,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 071101-1 - 071101-7 (2009).
- 2009 **"Search for charged Higgs bosons in decays of top quarks in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 101803-1 - 101803-7 (2009).
- 2009 **"A Search for the Associated Production of the Standard-Model Higgs Boson in the All-Hadronic Channel,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 221801-1 - 221801-7 (2009).
- 2009 **"Search for a Higgs Boson produced in association a W Boson in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 101802-1 - 101802-7 (2009).
- 2009 **"Measurement of the Top Quark Mass Using the Invariant Mass of Lepton Pairs in Soft Muon b-tagged Events,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 051104-1 - 051104-9 (2009).
- 2009 **"Precision Measurement of the X(3872) Mass in $J/\psi \pi^+ \pi^-$ Decays,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 152001-1 - 152001-7 (2009).
- 2009 **"Search for Higgs bosons predicted in two-Higgs-doublet models via decays to tau lepton pairs in 1.96 TeV p anti-p collisions,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 201801-1 - 201801-7 (2009).
- 2009 **"Searching the Inclusive Lepton + Photon + Missing E_T + b-quark Signature for Radiative Top Quark Decay and Non-Standard-Model Processes,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 011102-1 - 011102-9 (2009).
- 2009 **"First Observation of Vector Boson Pairs in a Hadronic Final State at the Tevatron Collider,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 091803-1 - 091803-8 (2009).
- 2009 **"Search for Standard Model Higgs Boson Production in Association with a W Boson using a Neural Network Discriminant at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 012002-1 - 012002-17 (2009).
- 2009 **"Observation of the Omega(b)- Baryon and Measurement of the Properties of the Xi(b)- and Omega(b)- Baryons,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 072003-1 - 072003-17 (2009).
- 2009 **"Production of $\psi(2S)$ Mesons in p-pbar Collisions at 1.96 TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 031103-1 - 031103-11 (2009).

- 2009 **"Search for a Fermiophobic Higgs Boson Decaying into Diphotons in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 061803-1 – 061803-7 (2009).
- 2009 **"Search for the Neutral Current Top Quark Decay $t \rightarrow Zc$ Using Ratio of Z-Boson + 4 Jets to W-Boson + 4 Jets Production,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 052001-1 – 052001-24 (2009).
- 2009 **"Search for Anomalous Production of Events with a Photon, Jet, b-quark Jet, and Missing Transverse Energy,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 052003-1 – 052003-20 (2009).
- 2009 **"Search for Hadronic Decays of W and Z Bosons in Photon Events in p-pbar Collisions at $\sqrt{s} = 1.96$ GeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D80**, 052011-1 - 052011-17 (2009).
- 2009 **"Measurement of Particle Production and Inclusive Differential Cross Sections in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 112005-1 – 112005-21 (2009).
- 2009 **"A Measurement of the t-tbar Cross Section in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV using Dilepton Events with a Lepton plus Track Selection,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 112007-1 – 112007-43 (2009).
- 2009 **"First Measurement of the t-tbar Differential Cross Section $d\sigma/dM(t\text{-}t\text{-}bar)$ in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 222003-1 – 222003-8 (2009).
- 2009 **"Search for Gluino-Mediated Sbottom Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 221801-1 – 221801-7 (2009).
- 2009 **"Measurement of the b-Hadron Production Cross Section Using Decays to $MU\text{-}d0$ X Final States in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 092003-1 – 092003-26 (2009).
- 2009 **"Evidence for a Narrow Near-Threshold Structure in the $J/\psi\phi$ Mass Spectrum in $B^+ \rightarrow J/\psi\phi K^+$ Decays,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 242002-1 – 242002-7 (2009).
- 2009 **"Search for narrow resonances lighter than Upsilon mesons,"** T. Aaltonen *et al.* [CDF Collaboration], Eur. Phys. J. **C62**, 319-326 (2009).
- 2009 **"First Observation of Electroweak Single Top Quark Production,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 092002-1 - 092002-8 (2009).
- 2009 **"Search for WW and WZ production in lepton plus jets final state at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 112011-1 – 112011-9 (2009).
- 2009 **"Search for the Production of Narrow t bbar Resonances in 1.9 fb^{-1} of p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 041801-1 – 041801-7 (2009).

- 2009 **"Search for exclusive Z boson production and observation of high mass $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 222002-1 – 222002-7 (2009).
- 2009 **"Observation of exclusive charmonium production and $\gamma\gamma \rightarrow \mu\mu$ in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 242001-1 – 242001-7 (2009).
- 2009 **"Search for Long-Lived Massive Charged Particles in 1.96 TeV $p\text{-}\bar{p}$ Collisions,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 021802-1 - 021802-7 (2009).
- 2009 **"Measurement of the $t\text{-}\bar{t}$ Production Cross Section in 2 fb^{-1} of $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV Using Lepton Plus Jets Events with Soft Muon b -Tagging,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 052007-1 - 052007-53 (2009).
- 2009 **"Search for the Decays $B_0(s) \rightarrow e^+ \mu^-$ and $B_0(s) \rightarrow e^+ e^-$ in CDF Run II,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 201801-1 - 201801-7 (2009).
- 2009 **"Measurement of the top quark mass at CDF using the 'neutrino ϕ weighting' template method on a lepton plus isolated track sample,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 072005-1 - 072005-17 (2009).
- 2009 **"Top Quark Mass Measurement in the Lepton plus Jets Channel Using a Modified Matrix Element Method,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 072001-1 - 072001-46 (2009).
- 2009 **"Measurement of Cross Sections for b Jet Production in Events with a Z Boson in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 052008-1 - 052008-31 (2009).
- 2009 **"Observation of New Charmless Decays of Bottom Hadrons,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 031801-1 - 031801-8 (2009).
- 2009 **"Search for new particles decaying into dijets in proton-antiproton collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 112002-1 - 112002-10 (2009).
- 2009 **"Search for top-quark production via flavor-changing neutral currents in $W+1$ jet events at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 151801-1 - 151801-8 (2009).
- 2009 **"Measurement of the k_T Distribution of Particles in Jets Produced in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 232002-1 - 232002-7 (2009).
- 2009 **"Inclusive Search for Squark and Gluino Production in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 121801-1 - 121801-7 (2009).
- 2009 **"Top Quark Mass Measurement in the $t\text{-}\bar{t}$ All Hadronic Channel using a Matrix Element Technique in $p\text{-}\bar{p}$ Collisions at $\sqrt{s} = 1.96$ -TeV,"** T. Aaltonen *et al.* [CDF Collaboration] Phys. Rev. **D79**, 0720101-1 - 0720101-28 (2009).

- 2009 **"Measurement of W-Boson Helicity Fractions in Top-Quark Decays Using $\cos\theta^*$,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Lett. **B674**, 160-167 (2009).
- 2009 **"A Search for high-mass resonances decaying to dimuons at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 091805-1 - 091805-8 (2009).
- 2009 **"Search for new physics in the $\mu\mu + e\mu + E_T$ channel with a low- p_T lepton threshold at the Collider Detector at Fermilab,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 052004-1 - 052004-17 (2009).
- 2009 **"First Measurement of the Ratio of Branching Fractions $B(\Lambda_b^0 \rightarrow \Lambda^+\mu^-\nu_\mu^-) / B(\Lambda_c^0 \rightarrow \Lambda^+\pi^-)$,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 032001-1 - 032001-39 (2009).
- 2009 **"Search for High-Mass e^+e^- Resonances in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 031801-1 - 031801-8 (2009).
- 2009 **"Measurement of Resonance Parameters of Orbitally Excited Narrow B_0 Mesons,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 102003-1 - 102003-7 (2009).
- 2009 **"Search for Maximal Flavor Violating Scalars in Same-Charge Lepton Pairs in p-pbar Collisions at $\sqrt{s} = 1.96$ -TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 041801-1 - 041801-7 (2009).
- 2009 **"First simultaneous measurement of the top quark mass in the lepton + jets and dilepton channels at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 092005-1 - 092005-24 (2009).
- 2009 **"Search for a Higgs Boson Decaying to Two W Bosons at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 021802-1 - 021802-7 (2009).
- 2009 **"Search for the Rare Decays $B^+ \rightarrow \mu^+\mu^-K^+$, $B^0 \rightarrow \mu^+\mu^-K^{*0}(892)$, and $B_s^0 \rightarrow \mu^+\mu^-\varphi$ at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 011104-1 - 011104-9 (2009).
- 2009 **"Global Search for New Physics with 2.0 fb^{-1} at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. **D79**, 011101-1 - 011101-8 (2009).
- 2009 **"First observation of $B_s^0\text{bar} \rightarrow D_s K$ and measurement of the ratio of branching fractions $\mathbf{B}(B_s^0\text{bar} \rightarrow D_s K) / \mathbf{B}(B_s^0\text{bar} \rightarrow D_s \pi)$,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **103**, 191802-1 - 191802-8 (2009).
- 2009 **"First Direct Bound on the Total Width of the Top Quark in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 042001-1 - 042001-7 (2009).
- 2009 **"Measurement of the top quark mass with dilepton events selected using neuroevolution at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **102**, 152001-1 - 152001-8 (2009).

- 2008 **"Measurement of the Single Top Quark Production Cross Section at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 252001-1 - 252001-7 (2008).
- 2008 **"Search for Supersymmetry in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV Using the Trilepton Signature of Chargino-Neutralino Production,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 251801-1 - 251801-7 (2008).
- 2008 **"Search for the Higgs boson produced with Z to two leptons in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 251803-1 - 251803-7 (2008).
- 2008 **"The CMS experiment at the CERN LHC,"** R. Adolphi *et al.* [CMS Collaboration], JINST **3**, S08004-1 – S08004-361 (2008).
- 2008 **"Search for Doubly Charged Higgs Bosons with Lepton-Flavor-Violating Decays involving tau Leptons,"** T. Aaltonen *et al.* [The CDF Collaboration], Phys. Rev. Lett. **101**, 121801-1 – 121801-7 (2008).
- 2008 **"Search for large extra dimensions in final states containing one photon or jet and large missing transverse energy produced in p-pbar collisions at $\sqrt{s} = 1.96$ -TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 181602-1 - 181602-7 (2008).
- 2008 **"Measurement of the Inclusive Jet Cross Section at the Fermilab Tevatron p-pbar Collider Using a Cone-Based Jet Algorithm,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 052006-1 - 052006-23 (2008).
- 2008 **"Forward-Backward Asymmetry in Top Quark Production in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 202001-1 - 202001-8 (2008).
- 2008 **"Measurement of b-jet Shapes in Inclusive Jet Production in p-pbar Collisions at $\sqrt{s} = 1.96$ -TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 072005-1 - 072005-17 (2008).
- 2008 **"Search for the Flavor Changing Neutral Current Decay $t \rightarrow Zq$ in p-pbar Collisions at $\sqrt{s} = 1.96$,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 192002-1 - 192002-7 (2008).
- 2008 **"Search for Heavy, Long-Lived Neutralinos that Decay to Photons at CDF II Using Photon Timing,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 032015-1 - 032015-29 (2008).
- 2008 **"Search for Standard Model Higgs Boson Production in Association with a W Boson at CDF,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 032008-1 - 032008-16 (2008).
- 2008 **"Search for Pair Production of Scalar Top Quarks Decaying to a τ Lepton and a b Quark in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **101**, 071802-1 - 071802-7 (2008).
- 2008 **"Two-Particle Momentum Correlations in Jets Produced in p-pbar Collisions at $\sqrt{s} = 1.96$ -TeV,"** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 092001-1 - 092001-18 (2008).

- 2008 **“Search for the Higgs boson in events with missing transverse energy and b quark jets produced in proton-antiproton collisions at $\sqrt{s}=1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 211801-1 - 211801-8 (2008).
- 2008 **“Measurement of Ratios of Fragmentation Fractions for Bottom Hadrons in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 072003-1 - 072003-31 (2008).
- 2008 **“Search for Heavy Top-like Quarks Using Lepton Plus Jets Events in 1.96 TeV p-pbar Collisions,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 161803-1 - 161803-7 (2008).
- 2008 **“Search for New Heavy Particles Decaying to $Z^0 Z^0 \rightarrow eeee$ in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 012008-1 - 012008-11 (2008).
- 2008 **“First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in $B_s \rightarrow J/\psi \phi$ Decays,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 161802-1 - 161802-7 (2008).
- 2008 **“Measurement of Lifetime and Decay-Width Difference in $B_s^0 \rightarrow J/\psi \phi$ Decays,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 121803-1 - 121803-7 (2008).
- 2008 **“Evidence for D^0 - D^0 bar mixing using the CDF II Detector,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 121802-1 - 121802-7 (2008).
- 2008 **“Search for $B_s \rightarrow \mu^+ \mu^-$ and $B_d \rightarrow \mu^+ \mu^-$ Decays with 2fb^{-1} of p-pbar Collisions,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 101802-1 - 101802-7 (2008).
- 2008 **“Observation of the Decay $B_c^\pm \rightarrow J/\psi \pi^\pm$ and Measurement of the B_c^\pm Mass,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 182002-1 - 182002-7 (2008).
- 2008 **“Model-Independent and Quasi-Model-Independent Search for New Physics at CDF,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **78**, 012002-1 - 012002-42 (2008).
- 2008 **“Search for Third Generation Vector Leptoquarks in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 091105-1 - 091105-7 (2008).
- 2008 **“Observation of Exclusive Dijet Production at the Fermilab Tevatron p-pbar Collider,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 052004-1 - 052004-28 (2008).
- 2008 **“Measurement of the cross section for W-boson production in association with jets in p-pbar collisions at $\sqrt{s}=1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 011108-1 - 011108-9 (2008).
- 2008 **“Measurement of Inclusive Jet Cross Sections in $Z/\gamma^* (\rightarrow ee) +$ jets Production in p-pbar Collisions at $\sqrt{s}=1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 102001-1 - 102001-7 (2008).

- 2008 **“Search for chargino-neutralino production in p-pbar collisions at 1.96 TeV with high pT leptons,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 052002-1 - 052002-20 (2008).
- 2008 **“First Measurement of the Production of a W Boson in Association with a Single Charm Quark in Proton Anti-proton Collisions at $\sqrt{s}=1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 091803-1 - 091803-7 (2008).
- 2008 **“Limits on the Production of Narrow t-tbar Resonances in p-pbar Collisions at $\sqrt{s}=1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 051102-1 - 051102-7 (2008).
- 2008 **“Search for Standard Model Higgs Bosons Produced in Association with W Bosons,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 041801-1 - 041801-7 (2008).
- 2008 **“Observation of Orbitally Excited B_s Mesons,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 082001-1 - 082001-7 (2008).
- 2008 **“Cross Section Constrained Top Quark Mass Measurement from Dilepton Events at the Tevatron,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 062005-1 - 062005-7 (2008).
- 2008 **“First observation of the decay $B_s^0 \rightarrow D_s^- D_s^+$ and measurement of its branching ratio,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 021803-1 - 021803-7 (2008).
- 2008 **“Measurement of correlated b-bbar production in p-pbar collisions at $\sqrt{s} = 1960$ GeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **77**, 072004-1 - 072004-24 (2008).
- 2008 **“Search for resonant t-tbar production in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **100**, 231801-1 - 231801-7 (2008).
- 2008 **“Cross section measurements of high- p_T dilepton final-state processes using a global fitting method,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **78**, 012003-1 - 012003-9 (2008).
- 2007 **“CMS technical design report, volume II: Physics performance,”** G. L. Bayatian *et al.* [CMS Collaboration], J. Phys. G **34**, 995-1579 (2007).
- 2007 **“Search for Direct Pair Production of Supersymmetric Top and Supersymmetric Bottom Quarks in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **76**, 072010-1 - 072010-12 (2007).
- 2007 **“Search for new physics in high mass electron-positron events in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 171802-1 - 171802-7 (2007).
- 2007 **“Search for exclusive $\gamma\gamma$ production in hadron-hadron collisions,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 242002-1 - 242002-7 (2007).

- 2007 | **“Search for chargino-neutralino production in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 191806-1 - 191806-7 (2007).
- 2007 | **“Search for a high-mass diphoton state and limits on Randall-Sundrum gravitons at CDF,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 171801-1 - 171801-7 (2007).
- 2007 | **“Observation and mass measurement of the baryon X_b^- ,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 052002-1 - 052002-7 (2007).
- 2007 | **“CMS physics technical design report: Addendum on high density QCD with heavy ions,”** D. G. d'Enterria *et al.* [CMS Collaboration], J. Phys. G **34**, 2307-2455 (2007).
- 2007 | **“First observation of heavy baryons Σ_b and Σ_b^* ,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 202001-1 - 202001-7 (2007).
- 2007 | **“Measurement of the p-pbar to t-tbar production cross-section and the top quark mass at $\sqrt{s} = 1.96$ TeV in the all-hadronic decay mode,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **76**, 072009-1 - 072009-19 (2007).
- 2007 | **“Search for New Particles Leading to Z + jets Final States in p-pbar Collisions at $\sqrt{s} = 1.96$ -TeV,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **76**, 072006-1 - 072006-24 (2007).
- 2007 | **“Measurement of the top-quark mass using missing E_T + jets events with secondary vertex b-tagging at CDF II,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. D **75**, 111103-1 - 111103-8 (2007).
- 2007 | **“Search for heavy, long-lived particles that decay to photons at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 121801-1 - 121801-7 (2007).
- 2007 | **“Polarization of J/ ψ and ψ_{2S} mesons produced in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **99**, 132001-1 - 132001-7 (2007).
- 2007 | **“Measurement of $\sigma_{cc2} B(c_{c2} \rightarrow J/\psi g) / \sigma_{cc1} B(c_{c1} \rightarrow J/\psi g)$ in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 232001-1 - 232001-7 (2007).
- 2007 | **“Inclusive search for new physics with like-sign dilepton events in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 221803-1 - 221803-7 (2007).
- 2007 | **“Search for new physics in lepton + photon + X events with 929 pb^{-1} of p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 112001-1 - 112001-15 (2007).
- 2007 | **“Measurement of the Inclusive Jet Cross Section using the k_T algorithm in p p-bar Collisions at $\sqrt{s} = 1.96$ TeV with the CDF II Detector,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 092006-1 - 092006-19 (2007). [Erratum-ibid. D **75**, 119901 (2007).]

- 2007 **“Search for Exotic $S=-2$ Baryons in $p\text{-}\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 032003-1 - 032003-9 (2007).
- 2007 **“Precision measurement of the top quark mass from dilepton events at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 031105-1 - 031105-7 (2007).
- 2007 **“Analysis of the quantum numbers $J(PC)$ of the $X(3872)$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 132002-1 - 132002-7 (2007).
- 2007 **“Measurement of the top-quark mass in all-hadronic decays in $p\text{-}\bar{p}$ collisions at CDF II,”** T. Aaltonen *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 142001-1 - 142001-7 (2007).
- 2007 **“Measurement of the B^+ production cross section in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1960$ GeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 012010-1 - 012010-12 (2007).
- 2007 **“Measurement of the Helicity Fractions of W Bosons from Top Quark Decays using Fully Reconstructed $t\text{-}\bar{t}$ Events with CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 052001-1 - 052001-11 (2007).
- 2007 **“Observation of exclusive electron positron production in hadron hadron collisions,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 112001-1 - 112001-7 (2007).
- 2007 **“Search for W' boson decaying to electron-neutrino pairs in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **75**, 091101-1 - 091101-7 (2007).
- 2007 **“Measurement of the ratios of branching fractions $B(B_s^0 \rightarrow D_s^- \pi^+ \pi^+ \pi^-) / B(B^0 \rightarrow D^- \pi^+ \pi^+ \pi^-)$ and $B(B_s^0 \rightarrow D_s^- \pi^+) / B(B^0 \rightarrow D^- \pi^+)$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 061802-1 - 061802-7 (2007).
- 2007 **“Measurement of the Λ_b^0 lifetime in $\Lambda_b^0 \rightarrow J/\psi \Lambda^0$ in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 122001-1 - 122001-7 (2007).
- 2007 **“Search for $V + A$ current in top quark decay in $p\text{-}\bar{b}$ collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 072001-1 - 072001-7 (2007).
- 2007 **“Measurement of $\sigma(\Lambda_b^0) / \sigma(\text{anti-}B^0) / BR(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-) / BR(\text{anti-}B^0 \rightarrow D^+ \pi^-)$ in $p\text{-}\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **98**, 122002-1 - 122002-7 (2007).
- 2006 **“Observation of $B_s^0\text{-}\bar{B}_s^0$ oscillations,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 242003-1 - 242003-8 (2006).

- 2006 **“Measurement of the t-tbar Production Cross Section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV in the All Hadronic Decay Mode,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 072005-1 – 072005-9 (2006).
- 2006 **“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-pbar Collisions at $\sqrt{s} = 1.96$ -TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 211802-1 – 211802-7 (2006).
- 2006 **“Search for excited and exotic muons in the $\mu\gamma$ decay channel in p-pbar collisions at $\sqrt{s} = 1.96$ -TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 191802-1 - 191802-7 (2006).
- 2006 **“Measurement of the B_s^0 -bar B_s^0 Oscillation Frequency,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 062003-1 – 062003-7 (2006).
- 2006 **“Search for a neutral Higgs boson decaying to a W boson pair in p-pbar collisions at $\sqrt{s} = 1.96$ -TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 081802-1 – 081802-7 (2006).
- 2006 **“Measurement of the b jet cross-section in events with a Z boson in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 032008-1 – 032008-12 (2006).
- 2006 **“Search for new physics in lepton + photon + X events with 305 pb⁻¹ of p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 031801-1 – 031801-7 (2006).
- 2006 **“Measurement of the ratio of branching fractions $B(D^0 \rightarrow K^+ \pi^-) / B(D^0 \rightarrow K^- \pi^+)$ using the CDF II Detector,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 031109-1 – 031109-7 (2006).
- 2006 **“Search for large extra dimensions in the production of jets and missing transverse energy in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 171802-1 - 171802 (2006).
- 2006 **“Measurement of the t-tbar production cross section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV using missing E_T + jets events with secondary vertex b-tagging,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 202002-1 – 202002-7 (2006).
- 2006 **“Measurement of the B_c^+ meson lifetime using $B_c^+ \rightarrow J/\psi e^+ \nu$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 012002-1 – 012002-7 (2006).
- 2006 **“Search for high-mass resonances decaying to $e \mu$ in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 211802-1 – 211802-7 (2006).
- 2006 **“Search for $Z' \rightarrow e^+ e^-$ using dielectron mass and angular distribution,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 211801-1 – 211801-7 (2006).

- 2006 **“Observation of $B_s^0 \rightarrow \psi(2S) \phi$ and measurement of ratio of branching fractions $B(B_s^0 \rightarrow \psi(2S) \phi) / B(B_s^0 \rightarrow J/\psi \phi)$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 231801-1 – 231801-7 (2006).
- 2006 **“Measurement of the dipion mass spectrum in $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ decays,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 102002-1 – 102002-7 (2006).
- 2006 **“A search for scalar bottom quarks from gluino decays in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 171802-1 – 171802-7 (2006).
- 2006 **“Measurement of mass and width of the excited charmed meson states D_1^0 and D_2^{*0} ,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 051104-1 – 051104-8 (2006).
- 2006 **“Search for anomalous semileptonic decay of heavy flavor hadrons produced in association with a W boson at CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 051101-1 – 051101-8 (2006).
- 2006 **“Measurement of the inclusive jet cross section using the k_T algorithm in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 122001-1 – 122001-7 (2006).
- 2006 **“Search for $H \rightarrow b$ anti- b produced in association with W bosons in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 081803-1 – 081803-7 (2006).
- 2006 **“Search for second-generation scalar leptoquarks in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 051102-1 – 051102-9 (2006).
- 2006 **“Measurement of the inclusive jet cross section in p-pbar interactions at $\sqrt{s} = 1.96$ -TeV using a cone-based jet algorithm,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **74**, 071103-1 – 071103-8 (2006).
- 2006 **“Measurement of the helicity of W bosons in top-quark decays,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. D **73**, 111103-1 – 111103-7 (2006).
- 2006 **“Search for charged Higgs bosons from top quark decays in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 042003-1 – 042003-7 (2006).
- 2006 **“A search for t to $\tau \nu q$ in t-tbar production,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Lett. B **639**, 172-178 (2006).
- 2006 **“Direct search for Dirac magnetic monopoles in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 201801-1 – 201801-7 (2006).
- 2006 **“Search for neutral MSSM Higgs bosons decaying to τ pairs in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 011802-1 – 011802-7 (2006).

- 2006 **“Measurement of b hadron masses in exclusive J/ψ decays with the CDF detector,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 202001-1 – 202001-7 (2006).
- 2006 **“Measurement of the ratios of branching fractions $B(B_s^0 \rightarrow D_s^- \pi^+) / B(B^0 \rightarrow D^- \pi^+)$ and $B(B^+ \rightarrow \text{anti-}D^0 \pi^+) / B(B^0 \rightarrow D^- \pi^+)$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 191801-1 – 191801-7 (2006).
- 2006 **“Search for W and Z bosons in the reaction $p\text{-}p\text{bar} \rightarrow 2 \text{ jets} + \gamma$ at $\sqrt{s} = 1.8 \text{ TeV}$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **73**, 012001-1 – 012001-9 (2006).
- 2006 **“Evidence for the exclusive decay $B_c^\pm \rightarrow J/\psi \pi^\pm$ and measurement of the mass of the B_c meson,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **96**, 082002-1 – 082002-7 (2006).
- 2005 **“The effect of highly ionising particles on the CMS silicon strip tracker,”** W. Adam *et al.* [CMS Tracker Collaboration], Nucl. Instrum. Meth. A **543**, 463-482 (2005).
- 2005 **“Search for new high mass particles decaying to lepton pairs in $p\text{-}p\text{bar}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 252001-1 – 252001-7 (2005).
- 2005 **“Search for $B_s \rightarrow \mu^+ \mu^-$ and $B_d \rightarrow \mu^+ \mu^-$ decays in $p\text{-}p\text{bar}$ collisions with CDF II,”** A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 221805-1 – 221805-7 (2005). [Erratum-ibid. **95**, 249905 (2005).]
- 2005 **“Search for first-generation scalar leptoquarks in $p\text{-}p\text{bar}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 051107-1 – 051107-7 (2005).
- 2005 **“Combination of CDF and D0 results on the top-quark mass,”** J. F. Arguin *et al.* [CDF and D0 and Tevatron Electroweak Working Group Collaboration], hep-ex/0507091, 2005, 12 pages.
- 2005 **“Search for $\Lambda_b \rightarrow p \pi$ and $\Lambda_b \rightarrow p K$ decays in $p\text{-}p\text{bar}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 051104-1 – 051104-7 (2005).
- 2005 **“Combination of CDF and D0 results on the top-quark mass,”** J. F. Arguin *et al.* [CDF and D0 and The Tevatron Electroweak Working Group Collaboration], hep-ex/0507006, 2005, 11 pages.
- 2005 **“A search for supersymmetric Higgs bosons in the $di\text{-}\tau$ decay mode in $p\text{-}p\text{bar}$ collisions at $\sqrt{s} = 1.8 \text{ TeV}$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 072004-1 – 072004-15 (2005).
- 2005 **“Search for new physics using high mass τ pairs from 1.96 TeV $p\text{-}p\text{bar}$ collisions,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 131801-1 – 131801-7 (2005).
- 2005 **“Measurement of the $t\text{-}t\text{bar}$ production cross section in $p\text{-}p\text{bar}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ using lepton plus jets events with semileptonic B decays to muons,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 032002-1 – 032002-20 (2005).

- 2005 **“Measurement of $B(t \rightarrow W b)/B(t \rightarrow W q)$ at the Collider Detector at Fermilab,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 102002-1 – 102002-7 (2005).
- 2005 **“Measurement of the cross section for t - \bar{t} production in p - \bar{p} collisions using the kinematics of lepton + jets events,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 052003-1 – 052003-27 (2005).
- 2005 **“ K_s^0 and Λ^0 production studies in p - \bar{p} collisions at $\sqrt{s} = 1800$ GeV and 630 GeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **72**, 052001-1 – 052001-17 (2005).
- 2005 **“Study of jet shapes in inclusive jet production in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 112002-1 – 112002-15 (2005).
- 2005 **“Search for Higgs bosons decaying into b - \bar{b} and produced in association with a vector boson in p - \bar{p} collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 051801-1 – 051801-6 (2005).
- 2005 **“Search for long-lived doubly-charged Higgs bosons in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 071801-1 – 071801-7 (2005).
- 2005 **“First evidence for $B_s^0 \rightarrow \phi \phi$ decay and measurements of branching ratio and A_{CP} for $B^+ \rightarrow \phi K^+$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 031801-1 – 031801-7 (2005).
- 2005 **“Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 051103-1 – 051103-9 (2005).
- 2005 **“Measurement of the $W^+ W^-$ production cross section in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV using dilepton events,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 211801-1 – 211801-7 (2005).
- 2005 **“Measurement of the forward-backward charge asymmetry from $W \rightarrow e \nu$ production in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 051104-1 – 051104-9 (2005).
- 2005 **“Search for ZZ and ZW production in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 091105-1 – 091105-7 (2005).
- 2005 **“Measurement of the J/ψ meson and b -hadron production cross sections in p - \bar{p} collisions at $\sqrt{s} = 1960$ GeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 032001-1 – 032001-26 (2005).
- 2005 **“Measurement of the lifetime difference between B_s mass eigenstates,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 101803-1 – 101803-7 (2005).
- 2005 **“Measurement of the cross section for prompt diphoton production in p - \bar{p} collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 022003-1 – 022003-7 (2005).

- 2005 **“Search for anomalous kinematics in t-tbar dilepton events at CDF II,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **95**, 022001-1 – 022001-7 (2005).
- 2005 **“Measurements of b-bbar azimuthal production correlations in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 092001-1 – 092001-39 (2005).
- 2005 **“Measurement of the W boson polarization in top decay at CDF at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 031101-1 – 031101-7 (2005). [Erratum-ibid. D **71**, 059901 (2005).]
- 2005 **“Measurement of charged particle multiplicities in gluon and quark jets in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 171802-1 – 171802-6 (2005).
- 2005 **“Search for scalar leptoquark pairs decaying to ν - $\bar{\nu}$ q-qbar in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 112001-1 – 112001-7 (2005). [Erratum-ibid. D **71**, 119901 (2005).]
- 2005 **“Search for electroweak single top quark production in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 012005-1 – 012005-7 (2005).
- 2005 **“Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 031104-1 – 031104-7 (2005).
- 2005 **“Measurement of the t-tbar production cross-section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV using lepton + jets events with secondary vertex b-tagging,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 052003-1 – 052003-28 (2005).
- 2005 **“Comparison of three-jet events in p-pbar collisions at $\sqrt{s} = 1.8$ TeV to predictions from a next-to-leading order QCD calculation,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 032002-1 – 032002-12 (2005).
- 2005 **“Measurement of partial widths and search for direct CP violation in D^0 meson decays to $K^- K^+$ and $\pi^- \pi^+$,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 122001-1 – 122001-7 (2005).
- 2005 **“Search for excited and exotic electrons in the $e\gamma$ decay channel in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 101802-1 – 101802-7 (2005).
- 2005 **“Measurement of $W\gamma$ and $Z\gamma$ production in p-pbar collisions at $\sqrt{s} = 1.96$ TeV”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **94**, 041803-1 – 041803-7 (2005).
- 2005 **“Measurement of the t-tbar production cross-section in p-pbar collisions at $\sqrt{s} = 1.96$ TeV using kinematic fitting of b-tagged lepton + jet events,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 072005-1 – 072005-11 (2005).
- 2004 **“Search for doubly-charged Higgs bosons decaying to dileptons in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **93**, 221802-1 – 221802-7 (2004).

- 2004 **“Inclusive search for anomalous production of high p_T like-sign lepton pairs in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **93**, 061802-1 – 061802-6 (2004).
- 2004 **“Direct photon cross section with conversions at CDF,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **70**, 074008-1 - 07400812 (2004).
- 2004 **“The underlying event in hard interactions at the Tevatron p-pbar collider,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **70**, 072002-1 – 072002-10 (2004).
- 2004 **“Optimized search for single top quark production at the Fermilab Tevatron,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **69**, 052003-1 – 052003-9 (2004).
- 2004 **“Observation of the narrow state $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **93**, 072001-1 – 072001-6 (2004).
- 2004 **“Search for $B_s^0 \rightarrow \mu^+ \mu^-$ and $B_d^0 \rightarrow \mu^+ \mu^-$ decays in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **93**, 032001-1 – 032001-7 (2004).
- 2004 **“Heavy flavor properties of jets produced in p-pbar interactions at $\sqrt{s} = 1.8$ TeV,”** D. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **69**, 072004-1 – 072004-21 (2004).
- 2004 **“Inclusive double pomeron exchange at the Fermilab Tevatron p-pbar collider,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **93**, 141601-1 – 141601-7 (2004).
- 2004 **“Search for Kaluza-Klein graviton emission in p-pbar collisions at $\sqrt{s} = 1.8$ TeV using the missing energy signature,”** D. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **92**, 121802-1 - 121802-7 (2004).
- 2004 **“Measurement of the average time-integrated mixing probability of b-flavored hadrons produced at the Tevatron,”** D. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **69**, 012002-1 – 012002-16 (2004).
- 2004 **“Search for pair production of scalar top quarks in R-parity violating decay modes in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **92**, 051803-1 – 051803-7 (2004).
- 2003 **“Search for the flavor-changing neutral current decay $D^0 \rightarrow \mu^+ \mu^-$ in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **68**, 091101-1 – 091101-6 (2003).
- 2003 **“Measurement of the mass difference $m(D_s^+) - m(D^+)$ at CDF II,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **68**, 072004-1 – 072004-11 (2003).
- 2003 **“Measurement of prompt charm meson production cross sections in p-pbar collisions at $\sqrt{s} = 1.96$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **91**, 241804-1 – 241804-7 (2003).
- 2003 **“Search for lepton flavor violating decays of a heavy neutral particle in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **91**, 171602-1 – 171602-6 (2003).

- 2003 **“Central pseudorapidity gaps in events with a leading antiproton at the Fermilab Tevatron p-pbar collider,”** D. E. Acosta *et al.* [CDF Collaboration] Phys. Rev. Lett. **91**, 011802-1 – 011802-6 (2003).
- 2003 **“Search for the supersymmetric partner of the top quark in dilepton events from p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **90**, 251801-1 – 251801-7 (2003).
- 2003 **“Search for associated production of Upsilon and vector boson in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **90**, 221803-1 – 221803-7 (2003).
- 2003 **“Search for long-lived charged massive particles in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **90**, 131801-1 – 131801-6 (2003).
- 2003 **“Search for a W’ boson decaying to a top and bottom quark pair in 1.8 TeV p-pbar collisions,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. Lett. **90**, 081802-1 – 081802-6 (2003).
- 2002 **“Cross section for forward J/ψ production in p-pbar collisions at $\sqrt{s} = 1.8$ TeV,”** D. E. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **66**, 092001-1 – 092001-11 (2002).
- 2002 **“Search for the $K_L \rightarrow \pi^0 \pi^0 e^+ e^-$ Decay in the KTeV Experiment,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **89**, 211801-1 – 211801-4 (2002).
- 2002 **“A Measurement of the K_L Charge Asymmetry,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **88**, 181601-1 – 181601-5 (2002).
- 2002 **“Radiative Decay Width Measurements of Neutral Kaon Excitations Using the Primakoff Effect,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **89**, 072001-1 – 072001-5 (2002).
- 2001 **“Measurement of the branching ratio and form-factor of $K_L \rightarrow \mu^+ \mu^- \gamma$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **87**, 071801-1 – 071801-4 (2001).
- 2001 **“A New Measurement of the Radiative Ke3 Branching Ratio and Photon Spectrum,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. D **64**, 112004-1 – 112004-7 (2001).
- 2001 **“First Measurement of Form Factors of the Decay $X^0 \rightarrow \Sigma^+ e^- \nu_{\text{bar}}$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **87**, 132001-1 – 132001-4 (2001).
- 2001 **“A Measurement of the Branching Ratio and Asymmetry of the Decay $X^0 \rightarrow \Sigma^0 \gamma$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **86**, 3239-3243 (2001).
- 2001 **“First Observation of the decay $K_L \rightarrow \pi^0 e e \gamma$,”** A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **87**, 021801-1 – 021801-5 (2001).

- 2001 “**A Measurement of the Branching Ratio of $K_L \rightarrow e^+ e^- \gamma \gamma$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. D **64**, 012003-1 – 012003-4 (2001).
- 2001 “**Search for the Decay $K_L \rightarrow \pi^0 e^+ e^-$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **86**, 397-401 (2001).
- 2001 “**Study of the $K_L \rightarrow \pi^+ \pi^- \gamma$ Direct Emission Vertex,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **86**, 761-764 (2001).
- 2000 “**Search for the Decay $K_L \rightarrow \pi^0 \mu^+ \mu^-$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **84**, 5279-5282 (2000).
- 2000 “**Observation of the Decay $K_L \rightarrow \mu^+ \mu^- \gamma \gamma$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. D **62**, 112001-1 – 112001-5 (2000).
- 2000 “**Search for the weak decay of a lightly bound H0 dibaryon,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **84**, 2593-2597 (2000).
- 2000 “**Observation of CP Violation in $K_L \rightarrow \pi^+ \pi^- e^+ e^-$ Decays,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **84**, 408-411 (2000).
- 2000 “**Search for the Decay $K_L \rightarrow \pi^0 \nu \bar{\nu}$ using $\pi^0 \rightarrow e^+ e^- \gamma$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. D **61**, 072006-1 – 072006-5 (2000).
- 1999 “**Observation of direct CP violation in $K_{S,L} \rightarrow \pi \pi$ decays,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **83**, 22-27 (1999).
- 1999 “**Light Gluino Search for Decays Containing $\pi^+ \pi^-$ or π^0 from a Neutral Hadron Beam at Fermilab,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **83**, 2128-2132 (1999).
- 1999 “**Measurement of the branching ratio of $\pi^0 \rightarrow e^+ e^-$ using $K_L \rightarrow 3 \pi^0$ decays in flight,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **83**, 922-925 (1999).
- 1999 “**Measurement of the Decay $K_L \rightarrow \pi^0 \gamma \gamma$,**” A. Alavi-Harati *et al.* [KTeV Collaboration], Phys. Rev. Lett. **83**, 917-921 (1999).
- 1999 “**Observation of the decay $X^0 \rightarrow \Sigma^+ e^- \bar{\nu}$,**” A. A. Affolder *et al.* [KTeV Collaboration], Phys. Rev. Lett. **82**, 3751-3754 (1999).
- 1999 “**Search for the decay $K_L \rightarrow \pi^0 \nu \bar{\nu}$,**” J. Adams *et al.* [KTeV Collaboration], Phys. Lett. B **447**, 240-245 (1999).
- 1998 “**Measurement of the branching fraction of the decay $K_L \rightarrow \pi^+ \pi^- e^+ e^-$,**” J. Adams *et al.* [KTeV Collaboration], Phys. Rev. Lett. **80**, 4123-4126 (1998).
- 1997 “**Search for Light Gluinos via the Spontaneous Appearance of $\pi^+ \pi^-$ Pairs with an 800 GeV/c Proton Beam at Fermilab,**” J. Adams *et al.* [KTeV Collaboration], Phys. Rev. Lett. **79**, 4083-4087 (1997).

Published Conference Proceedings

- 2011 | **"Physics of the Large and the Small: Introduction to the LHC experiments,"** E. Halkiadakis, [arXiv:1004.5564](https://arxiv.org/abs/1004.5564), 2010, 32 pages, Published in [World Scientific, ISBN: 9814327174 \(2011\)](https://www.worldscientific.com/doi/10.1142/9789814327174). *Proceedings for TASI 2009 Summer School.*
- 2009 | **"Electroweak measurements from the Tevatron,"** E. Halkiadakis [CDF and D0 Collaborations], *Il Nuovo Cimento C* **32**, 5-6 (2009). *Conference proceedings for "Les Rencontres de Physique de la Vallée d'Aoste", La Thuile 2009*
- 2006 | **"A proposed luminosity monitor for CMS based on small angle diamond pixel telescopes,"** E. Halkiadakis, *Nucl. Instrum. Meth. A* **565**, 284-289 (2006). *Prepared for International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, Bonn, Germany, 5-8 Sep 2005.*
- 2006 | **"Asymmetries in W^\pm and Z^0/γ^* production at the Tevatron,"** E. Halkiadakis [CDF and D0 Collaborations], FERMILAB-CONF-04-385-E (2004), 4 pages. *Prepared for 32nd International Conference on High-Energy Physics (ICHEP 04), Beijing, China, 16-22 Aug 2004. Published in Beijing 2004, ICHEP 2004, vol. 1, 499-502.*
- 2002 | **"Neutral meson decays to four leptons in KTeV,"** E. Halkiadakis, *AIP Conf. Proc.* **549**, 624-627 (2002). *Prepared for 7th Conference on Intersections Between Particle and Nuclear Physics (CIPANP 2000), Quebec City, Quebec, Canada, 22-28 May 2000.*