

John Stephen Conway

Curriculum Vita

Department of Physics
1 Shields Ave.
University of California
Davis, CA, 95616

530-220-4671
conway@physics.ucdavis.edu

Academic Positions

Professor of Physics, Univ. of California, Davis, July 2006-present

Assoc. Professor of Physics, Univ. of California, Davis, July 2004-June 2006

Assoc. Professor of Physics, Rutgers Univ., July 1999 - June 2004

Asst. Professor of Physics, Rutgers Univ., January 1993 - June 1999

Research Associate, Univ. of Wisconsin - Madison, May 1987 - December 1992

Education

Ph.D. Physics, Univ. of Chicago, June 1987

A.B. Physics with Honors, Northwestern Univ., June 1981

Area of Expertise

Experimental high energy physics with emphasis on high energy particle colliders; interests focused mainly on the search for the Higgs boson and phenomena beyond the standard model.

Research Collaborations

CMS Collaboration at CERN, 1997 - present

CDF Collaboration at Fermilab, 1993 - present

RD42 Collaboration at CERN, 1994 - 2000

ALEPH Collaboration at CERN, 1987-1992

Awards and Honors

Fellow of the American Physical Society, November 2008

Rutgers University Board of Trustees Fellowship for Scholarly Excellence, May 1999

Rutgers SPS Professor of the Year for Outstanding Teaching, April 1998

John S. Conway
Leadership and Service

Physics Community Service

Member, CMS Statistics Committee,
2007-2009.

Member, CMS Publication Committee,
2007-2009.

Convener, CMS Electroweak Tau Group,
2008-2010.

Member, Physics Graduate Record Exam (GRE) Committee of Examiners,
Educational Testing Service, July 2004 - June 2010.

Member, APS Division of Particles and Fields Nominating Committee,
July 2004 - July 2006.

Founder and Chair, Alvin Tollestrup Postdoctoral Research Award Committee,
2003-present.

Chair, Fermilab Users' Meeting,
Batavia, Illinois, June 2003.

Member, Fermilab Users' Executive Committee,
2001-2003.

Chair, CDF Speakers Committee,
2001-2003.

Member, CDF Statistics Committee,
2000-present.

Convener, CDF Higgs Group,
2000-2005.

Physics Conference Organization

Aspen Winter Particle Physics Meeting, organizer,
Aspen, CO, January 2010.

Colliders to Cosmic Rays 2007, organizer,
Granlibakken, CA, February 2007.

American Physical Society Division of Particles and Fields Meeting,
Beyond the Standard Model Parallel Session organizer,
Honolulu, Hawaii, November 2006.

ALCPG/ILC Snowmass 2005, LHC-ILC Coordination Group,
Snowmass Colorado, August 2005.

LHC-ILC Synergies, organizer,
Stanford, California, March 2005.

CPNSH: CP Violating and non-Standard Higgs, organizer,
Stanford, California, March 2005.

SUSY 2004, Higgs/SUSY Parallel Session organizer,
Tsukuba, Japan, June 2004.

SUSY 2003, Experimental Parallel Session organizer,
Tucson, Arizona, June 2003.

SUSY 2002, Electroweak Symmetry Breaking Parallel Session organizer,
Hamburg, Germany, June 2002.

Weak Interactions and Neutrinos 2002, Electroweak Symmetry Breaking
Parallel Session convener, Christchurch, New Zealand, January 2002.

UC Davis University Service

Graduate Fellowship Review Committee, 2007-2008.

Physics 7 Biosciences Ad Hoc Committee, 2006-2009.

UC Davis Physics Department Service

Graduate Written Prelim Committee,
2010-present.

Space Committee,
2008-present.

Research Support Committee,
2007-present.

Graduate Admissions Committee,
2005-present.

Colloquium Committee,
2004-2006.

Rutgers Physics Department Service

Graduate Studies and Life Committee,
2000-2004.

Long-Range Planning Committee,
2001-2003.

Physics Website Committee,
2002-2004.

Ph.D. Oral Exam Committee,
2000-2001.

Ph.D. Written Exam Committee,
2001-2002.

Graduate Recruiting Committee,
2000-2001.

Rutgers University Community Service

Douglass College Project SUPER (Science for Undergraduates, A Program for Excellence in Research) Mentor,
1999-2001.

Junior Science and Humanities Symposium Paper Judge,
1994-present.

QuarkNet Higgs Analysis Project for High Schools,
2002-2003.

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Invited Talks, Seminars, and Colloquia

- “Search for Fourth Generation Quarks,” Brookhaven Forum 2010, Brookhaven, NY, May 2010.
- “The Path to Discovery in CMS,” invited plenary talk, Phenomenology Symposium 2010, MADison, WI, May 2010.
- “Myths and Facts about the LHC,” SkeptiCal 2010, Berkeley, CA, May 2010.
- “The Search for the Higgs Boson,” Physics Dept. Colloquium, California State University, Sacramento, April 2010.
- “The Search for the Higgs Boson,” Physics Dept. Colloquium, University of California, Davis, April 2010.
- “The Search for the Higgs Boson,” Physics Dept. Colloquium, University of California, Los Angeles, March 2010.
- “The Search for the Higgs Boson,” Physics Dept. Colloquium, California State University, Sonoma, November 2009.
- “The Search for MSSM Higgs Bosons at the Tevatron”, APS Div. of Particles and Fields Conference, Detroit, MI, July 2009.
- “The Search for the Higgs Boson,” invited plenary talk, Europhysics 2009, Krakow, Poland, July 2009.
- “Going Beyond the Standard Model,” invited plenary talk, XIII Mexican School of Particles and Fields, San Carlos, Mexico, October 2008.
- “The Search for the Higgs Boson,” University of Oregon Physics Colloquium, October 2007.
- “Searches for Non-Standard-Model Higgs Bosons,” Aspen Particle Physics Conference, Aspen Colorado, January 2007.
- “The LHC Experiments,” three-lecture series, Theoretical Advanced Study Institute, Boulder, Colorado, June 2006.
- “Understanding the Higgs,” Los Alamos National Laboratory Director’s Colloquium, March 2005.
- “Understanding the Higgs,” University of Oklahoma Physics Colloquium, November 2004.
- “What CDF Can Say about the Higgs,” University of Oklahoma High Energy Seminar, November 2004.
- “What CDF Can Say about the Higgs,” SUSY 2004, Tsukuba, Japan, June 2004.
- “The Search for the Higgs at the Tevatron,” LHC Advanced Study Institute, Prague, Czech Republic, July 2003.

- “The Search for the Higgs,” session summary talk, Weak Interactions and Neutrinos 2002, Christchurch, New Zealand, January 2002.
- “Search for the Higgs at the Tevatron,” invited lecture, Mexican Physical Society Workshop, Zacatecas, Mexico, November 2001.
- “Search for New Phenomena at Hadron Colliders,” invited plenary talk, ICHEP 2000, Osaka, Japan, August 2000.
- “Setting Limits and Making Discoveries in CDF,” invited talk, CERN Workshop on Confidence Limits, Geneva, Switzerland, January 2000.
- “The Higgs Reach at the Tevatron in Run 2,” invited talk, LHCC Open Session, CERN, Geneva, Switzerland, July 2000.
- “The Higgs Search at the Tevatron in Run 1 and Run 2,” seminar, University of Michigan, Ann Arbor, Michigan, December 1999.
- “The Higgs Reach at the Tevatron in Run 2,” invited plenary talk, SUSY 99, Fermilab, Batavia, IL, June 1999.
- “The Higgs Reach at the Tevatron in Run 2,” invited talk, Beyond the Desert 99, Schloss Ringberg, Tegernsee, Germany, June 1999.
- “The Higgs Reach at the Tevatron in Run 2,” invited talk, Linear Collider Workshop, Sitges, Spain, April 1999.
- “The Higgs Reach at the Tevatron in Run 2,” invited talk, Rencontres de Physique, La Thuile, Italy, March 1999.
- “The Higgs Reach at the Tevatron in Run 2,” invited talk, Tevatron Run 2 SUSY/Higgs Workshop, Fermilab, Batavia, IL, Nov. 1998.
- “The Tau Lepton and the Search for the Higgs in CDF,” colloquium, Rutgers University, Piscataway, NJ, Sept. 1998.
- “Recent Results in the Development of Diamond Particle Detectors,” ICHEP 98, Vancouver, BC, Canada, July 1998.
- “Searches for New Particles at the Tevatron,” SLAC Experimental Seminar, SLAC, Stanford, California, April 1998.
- “Searches for New Particles at the Tevatron,” Aspen Winter Conference 98, Aspen, Colorado, January 1998.
- “Data Handling in High Energy Physics,” seminar at AT&T, Murray Hill, New Jersey, October 1997.
- “The Discovery of the Top Quark,” colloquium, Lehigh University, Bethlehem, Pennsylvania, September 1997.
- “Search for Supersymmetry at the Tevatron,” Europhysics HEP97, Jerusalem, Israel, August 1997.
- “Recent Advances in Vertex Detection,” Europhysics HEP97, Jerusalem, Israel, August 1997.

- “Recent CDF Results on Searches for New Particles,” Beyond the Desert '97, Tegernsee, Germany, June 1997.
- “The Discovery of the Top Quark,” colloquium, Colorado State University, Ft. Collins, Co., April 1997.
- “Physics with Taus at the Tevatron,” TAU 96, Estes Park, Co., September 1996.
- “Recent CDF Results,” SUSY 96, College Park, Maryland, June 1996.
- “The Top Quark and Beyond,” colloquium, Rutgers University, Piscataway, New Jersey, March, 1995.
- “Discovery of the Top Quark,” Rutgers Experimental High Energy Seminar, Rutgers University, Piscataway, New Jersey, March, 1995.
- “Use of a Neural Network for Charged Particle Identification in the ALEPH Tau Polarization Measurement,” CDF/DØSeminar, February, 1993.
- “Use of a Neural Network for Charged Particle Identification in the ALEPH Tau Polarization Measurement,” DPF 92, Fermilab, Batavia IL, November 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Univ. of Washington, Seattle WA, May 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Cornell Univ., Ithaca NY, February 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Pittsburgh Univ., Pittsburgh PA, February 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Univ. of Michigan, Ann Arbor MI, February 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Rutgers Univ., Piscataway NJ, January 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Univ. of Colorado, Boulder CO, January 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Univ. of Maryland, College Park MD, January 1992.
- “Tau Physics at ALEPH,” High Energy Seminar, Univ. of California - Berkeley, Berkeley, CA, January 1992.
- “Study of $Z \rightarrow \ell^+ \ell^- V$ in ALEPH,” DPF 91, Vancouver BC, Canada, August 1991.
- “Study of $Z \rightarrow \ell^+ \ell^- V$ in ALEPH,” High Energy Seminar, UC Santa Cruz, Santa Cruz CA, April 1991.
- “Review of B Physics and New Particle Searches at LEP,” Invited talk at the APS Spring Meeting, Washington DC, April 1991.
- “Recent Results from ALEPH,” High Energy Seminar, Columbia Univ., New York, NY, April 1990.

- “Recent Results from ALEPH,” High Energy Seminar, California Institute of Technology, Pasadena CA, April 1990.
- “Recent Results from ALEPH,” High Energy Seminar, Univ. of Chicago, Chicago IL, April 1990.
- “Recent Results from ALEPH,” High Energy Seminar, Columbia Univ., New York, NY, April 1990.
- “Recent Results from ALEPH,” High Energy Seminar, Princeton Univ., Princeton NJ, April 1990.
- “Search for Supersymmetric Particles in ALEPH,” DPF 90, Houston, Texas, January 1990.
- “The ALEPH TPC,” Universite Clermont-Ferrand, France, June 1989.
- “The ALEPH TPC,” CERN EF Seminar, Geneva, Switzerland, May 1989.
- “Higher Twist Effects in Muon Pair Production,” Rencontres de Moriond, Les Arcs, France, February 1988.
- “First results from E615,” Fermilab Joint Theoretical/Experimental Seminar, Batavia IL, June 1985.

John S. Conway

Courses Taught

UC Davis

Fall 2010	Physics 7C - Lecturer	Introductory Physics
Spring 2010	Physics 7B - Lecturer	Introductory Physics
Winter 2010	Physics 252C	Statistical Data Analysis
Fall 2009	Physics 7B - Lecturer	Introductory Physics
Winter 2009	Physics 252C	Statistical Data Analysis
Spring 2008	Physics 245C	Particle Physics
Winter 2008	Physics 252C	Statistical Data Analysis
Fall 2007	Physics 7B - Lecturer	Introductory Physics
Spring 2007	Physics 252C	Statistical Data Analysis
Winter 2007	Physics 122	Advanced Physics Lab
Winter 2007	Physics 7B - Lecturer	Introductory Physics
Spring 2006	Physics 131B	Elementary Particles
Winter 2006	Physics 7B - DL Leader	Introductory Physics
Fall 2005	Physics 7B - Lecturer	Introductory Physics
Spring 2005	Physics 131B	Elementary Particles
Winter 2005	Physics 7B - Lecturer	Introductory Physics

Rutgers

Spring 2004	Physics 228 - Administrator	Analytical Physics II
Fall 2003	Physics 227 - Administrator	Analytical Physics II
Spring 2003	Physics 124 - Administrator	Analytical Physics I
Fall 2002	Physics 123 - Administrator	Analytical Physics I
Spring 2002	Physics 124 - Administrator	Analytical Physics I
Fall 2001	Physics 123 - Administrator	Analytical Physics I
Spring 2001	Physics 124 - Administrator	Analytical Physics I
Fall 2000	Physics 123 - Administrator	Analytical Physics I
Spring 1999	Honors Seminar	Science and Pseudoscience
Fall 1998	Physics 273 - Honors Physics III	Modern Physics
Spring 1998	Honors Seminar	Science and Pseudoscience
Fall 1997	Physics 273 - Honors Physics III	Modern Physics
Spring 1997	Physics 382	Classical Mechanics
Fall 1996	Physics 381	Classical Mechanics
Spring 1996	Physics 382	Classical Mechanics
Fall 1995	Physics 381	Classical Mechanics
Spring 1995	Physics 382	Classical Mechanics
Fall 1994	Physics 381	Classical Mechanics
Spring 1994	Physics 228 - Recitations	Analytical Physics II
Fall 1993	Physics 227 - Recitations	Analytical Physics II

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Graduate Advisees

Matt Searle, UC Davis, Ph.D. expected Dec. 2011

Evan Friis, UC Davis, Ph.D. expected June 2011

Charles Cox, UC Davis, Ph.D. expected June 2011

Dr. Zongru Wan, Rutgers University, Ph.D. May 2005

Dr. Leslie Groer, Rutgers University, Ph.D. Oct. 1998

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List of Publications¹

1. T. Aaltonen *et al.*, “Study of Multi-Muon Events Produced in $p\bar{p}$ Interactions at $\sqrt{s} = 1.96$ TeV,” *Eur. Phys. J. C* **68**, 109 (2010) [Erratum-ibid. C **68**, 119 (2010)].
2. T. Aaltonen *et al.* (CDF Collaboration), “Exclusion of an Exotic Top Quark with $-4/3$ Electric Charge Using Soft Lepton Tagging,” *Phys. Rev. Lett.* **105**, 101801 (2010).
3. V. Khachatryan *et al.* (CMS Collaboration), “Measurement of the Charge Ratio of Atmospheric Muons with the CMS Detector,” *Phys. Lett. B* **692**, 83 (2010).
4. T. A. Aaltonen *et al.* (CDF Collaboration), “Measurement of $d\sigma/dy$ of Drell-Yan e^+e^- Pairs in the Z Mass Region from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Lett. B* **692**, 232 (2010).
5. T. Aaltonen *et al.* (CDF Collaboration), “Search for the Production of Scalar Bottom Quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **105**, 081802 (2010).
6. V. Khachatryan *et al.* (CMS Collaboration), “Transverse Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s} = 7$ TeV,” *Phys. Rev. Lett.* **105**, 022002 (2010).
7. V. Khachatryan *et al.* (CMS Collaboration), “First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV at the LHC,” *Phys. Rev. Lett.* **105**, 032001 (2010).
8. T. Aaltonen *et al.* (CDF Collaboration), “Search for WW and WZ resonances decaying to electron, missing E_T , and two jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 241801 (2010).
9. T. Aaltonen *et al.* (CDF Collaboration), “First Measurement of the Ratio $\sigma_{t\bar{t}}/\sigma_{Z/\gamma^* \rightarrow \ell\ell}$ and Precise Extraction of the $t\bar{t}$ Cross Section,” *Phys. Rev. Lett.* **105**, 012001 (2010).
10. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of $Z\gamma$ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **82**, 031103 (2010).
11. T. Aaltonen *et al.* (CDF Collaboration), “Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron,” *Phys. Rev. D* **82**, 034001 (2010).
12. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of W -Boson Polarization in Top-quark Decay in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **105**, 042002 (2010).
13. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using Soft Electron b -Tagging,” *Phys. Rev. D* **81**, 092002 (2010).

¹I participated heavily in the construction and operation of the detectors and experiments on which the publications listed here are based. The publications in bold face are which I have made major physics and data analysis contributions.

14. V. Khachatryan *et al.* (CMS Collaboration), “Transverse Momentum and Pseudorapidity Distributions of Charged Hadrons in $p\bar{p}$ Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV,” *J. High Energy Phys.* **1002**, 041 (2010).
15. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the Top Quark Mass and $p\bar{p} \rightarrow t\bar{t}$ Cross Section in the All-Hadronic Mode with the CDFII Detector,” *Phys. Rev. D* **81**, 052011 (2010) [arXiv:1002.0365 [hep-ex]].
16. T. Aaltonen *et al.* (CDF Collaboration), “Search for Single Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV in the Missing Transverse Energy Plus Jets Topology,” *Phys. Rev. D* **81**, 072003 (2010).
17. T. Aaltonen *et al.* (CDF Collaboration), “Inclusive Search for Standard Model Higgs Boson Production in the WW Decay Channel using the CDF II Detector,” *Phys. Rev. Lett.* **104**, 061803 (2010).
18. T. Aaltonen *et al.* (CDF and D0 Collaborations), “Combination of Tevatron searches for the standard model Higgs boson in the W^+W^- decay mode,” *Phys. Rev. Lett.* **104**, 061802 (2010).
19. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the W^+W^- Production Cross Section and Search for Anomalous $WW\gamma$ and WWZ Couplings in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 201801 (2010).
20. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the Λ_b Lifetime in $\Lambda_b \rightarrow \Lambda_c^+ \pi^-$ Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 102002 (2010).
21. T. Aaltonen *et al.* (CDF Collaboration), “A Study of the Associated Production of Photons and b -quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. D* **81**, 052006 (2010).
22. T. Aaltonen *et al.* (CDF Collaboration), “Search for Technicolor Particles Produced in Association with a W Boson at CDF,” *Phys. Rev. Lett.* **104**, 111802 (2010).
23. T. Aaltonen *et al.* (CDF Collaboration), “Search for Pair Production of Supersymmetric Top Quarks in Dilepton Events from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 251801 (2010).
24. T. Aaltonen *et al.* (CDF Collaboration), “Search for New Bottomlike Quark Pair Decays $Q\bar{Q} \rightarrow (tW^\mp)(\bar{t}W^\pm)$ in Same-Charge Dilepton Events,” *Phys. Rev. Lett.* **104**, 091801 (2010).
25. S. Chatrchyan *et al.* (CMS Collaboration), “Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons,” *J. Instrum.* **5**, T03007 (2010).
26. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons,” *J. Instrum.* **5**, T03002 (2010).
27. S. Chatrchyan *et al.* (CMS Collaboration), “Measurement of the Muon Stopping Power in Lead Tungstate,” *J. Instrum.* **5**, P03007 (2010).
28. S. Chatrchyan *et al.* (CMS Collaboration), “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons,” *J. Instrum.* **5**, T03008 (2010).

29. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of CMS Muon Reconstruction in Cosmic-Ray Events,” *J. Instrum.* **5**, T03022 (2010).
30. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of the CMS Cathode Strip Chambers with Cosmic Rays,” *J. Instrum.* **5**, T03018 (2010).
31. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data,” *J. Instrum.* **5**, T03012 (2010).
32. S. Chatrchyan *et al.* (CMS Collaboration), “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays,” *J. Instrum.* **5**, T03004 (2010).
33. S. Chatrchyan *et al.* (CMS Collaboration), “Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays,” *J. Instrum.* **5**, T03016 (2010).
34. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays,” *J. Instrum.* **5**, T03003 (2010).
35. S. Chatrchyan *et al.* (CMS Collaboration), “Commissioning of the CMS High-Level Trigger with Cosmic Rays,” *J. Instrum.* **5**, T03005 (2010).
36. S. Chatrchyan *et al.* (CMS Collaboration), “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter,” *J. Instrum.* **5**, T03014 (2010).
37. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data,” *J. Instrum.* **5**, T03013 (2010).
38. S. Chatrchyan *et al.* (CMS Collaboration), “Performance of the CMS Drift Tube Chambers with Cosmic Rays,” *J. Instrum.* **5**, T03015 (2010).
39. S. Chatrchyan *et al.* (CMS Collaboration), “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla,” *J. Instrum.* **5**, T03001 (2010).
40. S. Chatrchyan *et al.* (CMS Collaboration), “CMS Data Processing Workflows during an Extended Cosmic Ray Run,” *J. Instrum.* **5**, T03006 (2010).
41. S. Chatrchyan *et al.* (CMS Collaboration), “Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run,” *J. Instrum.* **5**, T03019 (2010).
42. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the WW+WZ Production Cross Section Using the Lepton+Jets Final State at CDF II,” *Phys. Rev. Lett.* **104**, 101801 (2010).
43. S. Chatrchyan *et al.* (CMS Collaboration), “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays,” *J. Instrum.* **5**, T03017 (2010).
44. S. Chatrchyan *et al.* (CMS Collaboration), “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter,” *J. Instrum.* **5**, T03011 (2010).
45. S. Chatrchyan *et al.* (CMS Collaboration), “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons,” *J. Instrum.* **5**, T03020 (2010).

46. T. Aaltonen *et al.* (CDF Collaboration), “A Search for the Higgs Boson Using Neural Networks in Events with Missing Energy and b -quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 141801 (2010).
47. T. Aaltonen *et al.* (CDF Collaboration), “Search for New Color-Octet Vector Particle Decaying to $t\bar{t}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Lett. B* **691**, 183 (2010).
48. T. Aaltonen *et al.* (CDF Collaboration), “Top Quark Mass Measurement using mT2 in the Dilepton Channel at CDF,” *Phys. Rev. D* **81**, 031102 (2010).
49. T. Aaltonen *et al.* (CDF Collaboration), “Measurements of Branching Fraction Ratios and CP Asymmetries in $B^\pm \rightarrow D_{CP}K^\pm$ Decays in Hadron Collisions,” *Phys. Rev. D* **81**, 031105 (2010).
50. S. Chatrchyan *et al.* (CMS Collaboration), “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays,” *J. Instrum.* **5**, T03021 (2010).
51. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the Inclusive Isolated Prompt Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using the CDF Detector,” *Phys. Rev. D* **80**, 111106 (2009).
52. T. Aaltonen *et al.* (CDF Collaboration), “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events with Missing Transverse Energy at CDF II,” *Phys. Rev. Lett.* **104**, 011801 (2010).
53. S. Chatrchyan *et al.* (CMS Collaboration), “Performance and Operation of the CMS Electromagnetic Calorimeter,” *J. Instrum.* **5**, T03010 (2010).
54. S. Chatrchyan *et al.* (CMS Collaboration), “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays,” *J. Instrum.* **5**, T03009 (2010).
55. T. Aaltonen *et al.* (CDF Collaboration), “Measurements of the Top-Quark Mass using Charged Particle Tracking,” *Phys. Rev. D* **81**, 032002 (2010).
56. T. Aaltonen *et al.* (CDF Collaboration), “First Measurement of the b -jet Cross Section in Events with a W Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **104**, 131801 (2010).
57. T. Aaltonen *et al.* (CDF Collaboration), “A Search for the Higgs Boson Produced in Association with $Z \rightarrow \ell^+\ell^-$ Using the Matrix Element Method at CDF II,” *Phys. Rev. D* **80**, 071101 (2009).
58. T. Aaltonen *et al.* (CDF Collaboration), “Search for charged Higgs bosons in Decays of Top Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **103**, 101803 (2009).
59. T. Aaltonen *et al.* (CDF Collaboration), “A Search for the Associated Production of the Standard Model Higgs Boson in the All-Hadronic Channel,” *Phys. Rev. Lett.* **103**, 221801 (2009).
60. T. Aaltonen *et al.* (CDF Collaboration), “Search for a Higgs Boson in $WH \rightarrow \ell\nu b\bar{b}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” *Phys. Rev. Lett.* **103**, 101802 (2009).

61. T. Aaltonen *et al.* (CDF Collaboration), “Measurement of the Top Quark Mass Using the Invariant Mass of Lepton Pairs in Soft Muon b -tagged Events,” *Phys. Rev. D* **80**, 051104 (2009).
62. T. Aaltonen *et al.* (CDF Collaboration), “Precision Measurement of the $X(3872)$ Mass in $J/\psi\pi^+\pi^-$ Decays,” *Phys. Rev. Lett.* **103**, 152001 (2009).
63. **T. Aaltonen *et al.* (CDF Collaboration), “Search for Higgs Bosons Predicted in two-Higgs-Doublet Models via Decays to Tau Lepton Pairs in 1.96 TeV $p\bar{p}$ Collisions,” *Phys. Rev. Lett.* **103**, 201801 (2009).**
64. T. Aaltonen *et al.* (CDF Collaboration), “Searching the Inclusive Lepton + Photon + Missing E_T + b -quark Signature for Radiative Top Quark Decay and Non-Standard-Model Processes,” *Phys. Rev. D* **80**, 011102 (2009).
65. T. Aaltonen *et al.* (CDF Collaboration), “First Observation of Vector Boson Pairs in a Hadronic Final State at the Tevatron Collider,” *Phys. Rev. Lett.* **103**, 091803 (2009).
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