

CONTACT INFORMATION Department of Physics
 The Ohio State University
 1040 Physics Research Building
 191 West Woodruff Avenue
 Columbus, OH 43210, USA

Tel: +1 614-292-1795
Fax: +1 614-292-7741
E-mail: carott@mps.ohio-state.edu
Web: www.physics.ohio-state.edu/~carott

RESEARCH FOCUS

Experimental astro-particle physics, neutrinos, dark matter

EMPLOYMENT

2009 – present CCAPP Postdoctoral Fellow (Long-term 5-years),
 2008 – 2009 CCAPP Postdoctoral Fellow (3-years), Center for Cosmology and Astro-Particle Physics (CCAPP), The Ohio State University, USA

2005 – 2008 Postdoctoral Fellow, Dept. of Physics, Pennsylvania State University, USA

2000 – 2005 Graduate Research Assistant, Dept. of Physics, Purdue University, USA
 1999 Summer Research Assistant, Fermi National Accelerator Laboratory, USA
 1999 Graduate Instructor, Department of Physics, Purdue University, USA
 1997 Teaching Assistant/Grader, Institut für Theo. Physik, Hannover, Germany
 1994 – 1995 Community service (mobile nurse) as alternative to German military service

EDUCATION

1998 – 2004 Purdue University, Indiana, USA
 Ph.D in Experimental Particle Physics (December 2004)
 Title : “Search for Scalar Bottom Quarks from Gluino Decays” at CDF
 Thesis Adviser : Prof. Daniela Bortoletto
 M.Sc in Physics (September 1999)

1995 – 1998 Universität Hannover, Hannover, Germany
 “Vordiplom Physik” (German Pre-Master Certificate) (September 1997)

1994 Gymnasium Burgdorf, Germany
 “Abitur” (German High-School Degree)

HONORS AND

AWARDS 2005 Ph.D. Thesis - “Result of the Week at FNAL” (FermiNews, August 11,2005)
 2004 George W. Tautfest Award, Purdue University
 Sigma Xi Poster Award, Honorable Mention, Purdue University

1998 – 1999 University of Hannover – Purdue University direct exchange fellowship

GRANTS

2011 – 2012 NSF Award #1135622 \$5K (Workshop participants support)
 2009 – present CCAPP Fellowship for Travel and Research \$18K/year
 2008 – 2009 CCAPP Fellowship for Travel and Research \$16K/year

PROFESSIONAL

ACTIVITIES 2011 – present Manuscript referee for Journal of Cosmology and Astroparticle Physics
 2009 – present Member of CCAPP fellow search committee
 2009 – present Coordination of Exchange Program with Nagoya University
 2010 – 2011 CCAPP Seminar Coordinator
 2008 – 2009 Early Career Scientist Representative on the IceCube Collaboration Board

• **IceCube / AMANDA Experiment (2005-present)**

Physics Analysis and Related Tasks:

- Search for anisotropy from Dark Matter annihilations in the Galactic halo using cascades (in progress)
- Search for Dark Matter in nearby Dwarf Spheroidal Galaxies with IceCube (proceedings submitted to ICRC 2011)
- Search for Dark Matter self-annihilations at the Galactic Center (proceedings submitted to ICRC 2011)
- Dark Matter self-annihilation analysis (see **PRD 84, 022004 (2011)**)
- IceCube atmospheric neutrino oscillation sensitivity (see **arXiv:0810.3698**)

- Author of several online data filters and the IceCube string trigger (see **arXiv:0711.0353**), which is essential for WIMP searches
- All sky point source analysis; Using up and down-going partially contained tracks (with graduate student while at Penn State)
- Analysis of the sensitivity of IceCube’s optical sensors in the ice

Leadership:

- Early Career Scientist Representative on the IceCube Collaboration Board (2008 – 2009)
- Internal paper referee
- Good Run List Coordinator
 - * The Good Run List provides the underlying data selection for all physics analysis
 - * Development of data quality system (creation and distribution of the list)
- Development and implementation of web-portal, that allows quick access to all important internal websites and has become one of the most frequently used IceCube websites
- Data Integrity Lead (2007-2008)
 - * Leading a team of postgraduates and graduate students from several universities
 - * Implementation of online processing system for data quality monitoring
 - * Characterization of detector performance and stability
 - * Timing and geometry verification of the deployed optical modules
 - * Long term stability and high-level detector commissioning of newly deployed detector parts
 - * Organizer of workshops, convener of Verification/Monitoring session on two collaboration meetings, and chairing several phone conferences per week

Hardware and Service Work for the Experiment:

- South Pole Team member (Seasons 05/06, 06/07, 07/08)
- Timing calibration of the AMANDA optical modules (OM) with a Laser calibration system at the South Pole and development of an alternative method to calibrate the OMs using reconstructed down-going muons
- Optical Module collection efficiency measurements (at Chiba, Japan)
- Digital Optical Module testing software development (including visits to IceCube DOM production and testing sites at DESY (Germany), Uppsala (Sweden), and Madison (USA))

- **Phased IceCube Next Generation Upgrade (2010-present)**

Activities

- Proton Decay / Dark Matter sensitivity studies

- **Askaryan Radio Array (ARA) – Radio Extension to IceCube (2008-present)**

AURA (Askaryan Underice Radio Array) test array:

- Radio Frequency attenuation length measurement in the ice (Supervision of Senior Thesis 2010)

- **Fermilab/CDF Experiment (2000-2005)**

Leadership:

- Convener of Purdue Group meetings at CDF
- Purdue CAF (Central Analysis Farm) data disk coordinator

Physics Analysis and Software:

- “Search for Scalar Bottom Quarks from Gluino Decays in Proton - Anti-proton Collisions at a Center-of-Mass Energy of 1.96-TeV” (Ph.D Thesis) (published in **Phys. Rev. Lett. 96, 171802 (2006)**)
- “Search for direct Scalar Bottom production at Tevatron”
- “Search for Z associated Higgs production at Tevatron” (see **Phys. Rev. Lett. 100, 211801 (2008)**)
- Leading role in development and optimization of the now standard secondary vertex tagging algorithm used for Top physics and exotic searches (see **PRD 71, 052003 (2005)**)
- Understanding of missing-transverse-energy based triggers and development of standard cleanup cuts for the CDF collaboration
- Development of a MC visualization tool for CDF’s Event Display
- Comparison of primary vertex finding algorithms

Hardware and Service Work for the Experiment:

- CDF Run IIa shift crew (Data acquisition and detector monitoring)
- Testing of silicon microstrip detectors

- **CERN/CMS Experiment (2000-2005)**

- Development and testing of silicon pixel sensors (Inner Tracker and Forward Discs)
- Irradiation studies and probe station operations (published in **Nucl.Instrum.Meth.A501:160, 2003**)
- Beam test at CERN (June - August 2000) with silicon and diamond pixel detectors and data analysis (published in **Nucl.Instrum.Meth.A488:271-281,2002**)

- **Fermilab/Muon Collider Experiment (Summer 1999)**

- Muon beam simulation and ionization cooling
- Development of simulation package to study beam dynamics (used for **US Patent 6856105**)

Conference Organization

5. CCAPP Symposium 2011, "Unraveling the Nature of the Universe with Current and Future Datasets," April 4-6, 2011, Ohio State, Columbus, OH, USA (Chair) (NSF Award #1135622)
4. 2nd Workshop on Novel Searches for Dark Matter with Neutrino Telescopes, July 5-6, 2010, Ohio State, Columbus, OH, USA (Organizer)
3. CCAPP Symposium, Towards Fundamental Breakthroughs in Astrophysics and Cosmology within the Next Decade , October 12 - 14, 2009, Ohio State, Columbus, OH, USA (Co-organizer)
2. Novel Searches for Dark Matter with Neutrino Telescopes, November 17-19, 2008, Ohio State, Columbus, OH, USA (Co-organizer)
1. 9th International Workshop On VERTEX Detectors (VERTEX 2000), September 10-15, 2000, Sleeping Bear Dunes National Lakeshore, MI, USA (scientific secretary)

Invited Conference Talks

13. *Dark Matter Halo Analyses*
Mediterranean-Antarctic Neutrino Telescope Symposium, September 24-25, 2011, Uppsala University, Uppsala, Sweden
12. *Hunt for Dark Matter with Neutrinos*
Dark Matter: Its Origin, Models, and Detection, May 27-29, 2011, University of New Mexico, Albuquerque, NM, USA
11. *Novel Searches for Dark Matter 2010*
Novel Searches for Dark Matter, July 5-6, 2010, CCAPP workshop, Ohio State, Columbus, OH, USA
10. *DeepCore and Galactic Center Dark Matter*
Second Workshop on Low Energy Neutrino Physics and Astrophysics with IceCube, Pennsylvania State University, July 1-2, 2010, State College, PA, USA
9. *Neutrino Telescopes and the Hunt for Dark Matter*
10th Great Lakes Cosmology Workshop (GLCW X), June 14-16, 2010, Chicago, IL, USA
8. *Indirect Searches for Dark Matter*
Lecture, GCOE Nagoya Winter School February 18-21, 2010, Nagoya, Japan
7. *Dark Matter Searches with Neutrino Telescopes*
IPMU Focus Week on Indirect Dark Matter Searches, December 7-11, 2009, Kashiwa, Japan
6. *Neutrinos from Dark Matter Annihilation*
Workshop on the Next Generation Nucleon Decay and Neutrino Detectors (NNN09), October 8-10, 2009, Estes Park, CO, USA
5. *Dark Matter Searches with DeepCore*
Workshop on Low Energy Neutrino Physics and Astrophysics with IceCube, Pennsylvania State University, March 19, 2009, State College, PA, USA
4. *Latest Results from IceCube*
XLIVth Rencontres de Moriond EW 2009, March 12, 2009, LaThuile, Italy
3. *How to perform Galactic halo searches*
Novel Searches for Dark Matter, November 18-20, 2008, CCAPP workshop, Ohio State, Columbus, OH, USA
2. *IceCube Status, Performance and Future*
XIV International Symposium on Very High Energy Cosmic Ray Interactions (ISVHECRI 2006), August 15-22, 2006, Weihai, China

1. *Search for Top and Bottom Squarks*
EPS 2003, July 17-23, Aachen, Germany

Colloquia and Seminars

33. *Dark Matter Searches with Neutrinos*
High-Energy Theory & Cosmology Seminar, Vanderbilt University, October 21, Nashville, TN, USA
32. *Dark Matter Searches with Neutrino Telescopes*
Seminar, Texas A&M October 12, College Station, TX, USA
31. *The Fully Operational Icecube Neutrino Telescope*
Colloquium, Colorado State University, October 10, Fort Collins, CO, USA
30. *Science with the largest neutrino detector IceCube*
ACD/HAO Seminar, National Center for Atmospheric Research, October 7, Boulder, CO, USA
29. *Closing in on Dark Matter with Neutrino Telescopes*
KEK Theory Seminar, August 29, 2011, Tsukuba, Japan
28. *Closing in on Dark Matter*
Special Seminar, Institute for the Physics and Mathematics of the Universe / Kamioka Observatory, February 15, 2011, Kamioka, Japan
27. *Dark Matter Searches with Neutrinos*
Astro Seminar, University of Cincinnati, February 7, 2011, Cincinnati, OH, USA
26. *Arrival of a new Giant*
Colloquium, Purdue University, January 13, 2011, W. Lafayette, IN, USA
25. *Hunting for Dark Matter with Neutrinos*
Seminar, UC Santa Cruz, January 11, 2011, Santa Cruz, CA, USA
24. *Dark Matter Searches with Neutrinos*
Cosmology Seminar, KIPAC/Stanford University, January 10, 2011, Stanford, CA, USA
23. *IceCube and Beyond*
Seminar, Waseda University, December 17, 2010, Tokyo, Japan
22. *Ice Fishing for Neutrinos from Dark Matter*
LA Astro Seminar, November 24, 2010, Los Alamos, NM, USA
21. *Constraining the Dark Matter self-annihilation cross section with IceCube*
CMU/Pitt Astro Seminar, University of Pittsburgh, October 8, 2010, Pittsburgh, PA, USA
20. *Hunting for Dark Matter with Neutrinos*
Colloquium, University of Hawai'i, August 26, 2010, Honolulu, HI, USA
19. *IceCube Dark Matter Searches*
TAPIR Seminar, Caltech, April 2, 2010, Pasadena, CA, USA
18. *Halo Dark Matter Searches with IceCube/DeepCore*
Seminar, University of New Mexico, May 5, 2009, Albuquerque, NM, USA
17. *Dark Matter Searches with IceCube*
Seminar, Nagoya University, January 16, 2009, Nagoya, Japan
16. *Neutrino Oscillation Measurements at the South Pole*
ICRR Seminar, University of Tokyo, January 9, 2009, Kashiwa, Japan

15. *Sub-TeV Neutrino Physics at the South Pole*
Seminar, University of Stockholm, December 17, 2008, Stockholm, Sweden
14. *Hunting for Dark Matter with IceCube*
Theoretical Physics Seminar, University of Bonn, December 15, 2008, Bonn, Germany
13. *Neutrino Oscillation Measurements with IceCube*
Seminar, Georgia Tech, December 4, 2008, Atlanta, GA, USA
12. *Indirect Searches for Dark Matter with IceCube*
High Energy Physics Seminar, University of Rochester, November 4, 2008, Rochester, NY, USA
11. *IceCube*
Colloquium, National Taiwan University, April 1, 2008, Taipei, Taiwan
10. *Searches for Neutrino Oscillations and Dark Matter with IceCube*
Seminar, Center for Cosmology and Astro-Particle Physics, March 25, 2008, Columbus, OH, USA
9. *Searches for Neutrino Oscillations and Dark Matter with IceCube*
Colloquium, University of Canterbury, February 22, 2008, Christchurch, New Zealand
8. *Search for Dark Matter and Neutrino Oscillations with IceCube*
Seminar, Purdue University, December 4, 2007, West Lafayette, IN, USA
7. *Latest Results from the IceCube Experiment*
Seminar, University of Tokyo (ICRR), September 10, 2007, Kashiwa, Japan
6. *IceCube*
Seminar, Tsukuba University, September 7, 2007, Tsukuba, Japan
5. *Latest Results from AMANDA and IceCube*
Tokyo Institute of Technology, September 14, 2006, Tokyo, Japan
4. *Search for Sbottom Quarks from Gluino Decays*
Colloquium, August 28, 2005, Chiba University, Japan
3. *Search for the Scalar Bottom Quark from Gluino Decays at the CDF*
Seminar, Pennsylvania State University, November 1, 2004, University Park, PA, USA
2. *Search for Sbottom Quarks from Gluino Decays at CDF*
Seminar, University of Rochester, November 2004, Rochester, NY, USA
1. *Search for Sbottom Quarks from Gluino Decays at CDF*
Seminar, Fermilab, November 2004, Batavia, IL, USA

Conference Contributions

24. *Search for Dark Matter in the Milky Way with IceCube*
32nd International Cosmic Ray Conference, August 11-18, 2011 Beijing, China
23. *Next Generation Neutrino Detectors*
CCAPP Symposium 2011 / Supernova Workshop, April 4-6, 2011, Columbus, OH, USA
22. *Proton Decay Sensitivity Studies*
Beyond DeepCore Workshop, March 19-20, 2011, Amsterdam, Netherlands
21. *Sensitivity for Dark Matter in the Earth*
University of Alberta – DeepCore Workshop, February 26-28, 2011, Banff, Canada

20. *Sensitivity studies for Solar WIMPs* (poster)
Workshop on the Next Generation Nucleon Decay and Neutrino Detectors (NNN10),
Dec 13-16, 2010, Toyama, Japan
19. *Results and Prospects of Dark Matter Searches with IceCube* (poster)
Darkness Visible, August 2-6, 2010, Cambridge, UK
18. *New Approaches in the Search for Solar WIMPs*
Identification of Dark Matter (IDM 2010), July 26-30, 2010, Montpellier, France
17. *Dark Matter Searches with IceCube*
SNOWPAC & SNOWCLUSTER 2010, March 23, 2010 - April 2, 2010, Snowbird,
UT, USA
16. *Searches for Dark Matter from the Galactic Halo with IceCube*
CCAPP Symposium 2009: Towards Fundamental Breakthroughs in Astrophysics
and Cosmology within the Next Decade, October 12-14, 2009, Columbus, OH,
USA
15. *Results and Prospects of Indirect Searches for Dark Matter with IceCube*
31st International Cosmic Ray Conference (ICRC 2009) July 7-15, 2009, Lodz,
Poland
14. *Atmospheric Neutrino Oscillation Measurements with IceCube*
31st International Cosmic Ray Conference (ICRC 2009) July 7-15, 2009, Lodz,
Poland
13. *Fundamental Neutrino Measurements with IceCube DeepCore* (poster)
31st International Cosmic Ray Conference (ICRC 2009) July 7-15, 2009, Lodz,
Poland
12. *Indirect Searches for Dark Matter with IceCube* (gong show talk),
BCCS08 Symposium, December 8-9, 2008, Cleveland, OH, USA
11. *Neutrino Oscillation Measurements with IceCube* (poster),
International Conference on High Energy Physics (ICHEP 08), July 29 - August
5, 2008, Philadelphia, PA, USA
10. *Dark Matter Searches in IceCube* (poster),
TAUP 2007, September 11-15, 2007, Sendai, Japan
9. *Potential of the IceCube array for reconstruction of low energy events*
TeV Particle Astrophysics 2007, August 27-31, 2007, Venice, Italy
8. *Initial Performance of the IceCube Neutrino Observatory*
JPS 2006, September 20, 2006, Nara, Japan
7. *IceCube Experiment: String 21 Performance*
JPS 2005, September 12-15, 2005, Osaka, Japan
6. *Searches for the Supersymmetric Partner of the Bottom Quark*
SUSY 2004, June 17-23, Tsukuba, Japan (*awarded travel support*)
5. *CDF Run 2 Searches for Physics Beyond the Standard Model Using Heavy Flavor
Jets and Missing Transverse Energy*
APS April Meeting 2004, May 1-4, Denver, CO, USA (*NSF travel support*)
4. *Search for the Supersymmetric Partner of the Bottom Quark using the CDF De-
tector at the Tevatron* (poster)
Lepton Photon 2003, August 11-16, Batavia, IL, USA
3. *Test Beam Results for the CMS Forward Pixel Detector*
New Perspectives 2001, June 13, Fermilab, Batavia, IL, USA

2. *Test Beam Results for the CMS Forward Pixel Detector*
APS April Meeting 2001, April 28 - May 1, Washington, DC, USA
1. *CMS Forward Pixel Detector* (poster)
The 2001 European School of High-Energy Physics, August 26 - September 8,
Beatenberg, Switzerland

Collaboration Meeting Talks

19.
 1. *IceCube 79-86 good run list*
 2. *Solar WIMP Searches with Cascades*
 3. *Dark Matter Sensitivity for IceCube Detector Upgrades*
 IceCube Collaboration Meeting, Sep 19 - 23, 2011 Uppsala, Sweden
18.
 1. *Final Result of the Galactic Halo Analysis*
 2. *IceCube Good Run List for 2010-2011*
 IceCube Collaboration Meeting, May 20 - 23, 2011, Madison, WI, USA
17.
 1. *Galactic Halo Analysis Update*
 2. *Update on Galactic Halo and Earth WIMPs Sensitivity for DeepCore*
 3. *IceCube Good Run List*
 4. *Effective Volume Study for DeepCore using a ToyModel*
 IceCube Collaboration Meeting, September 20 - 23, 2010, Brussels, Belgium
16.
 1. *Search for Dark Matter from Galactic Halo and Galactic Center (plenary)*
 2. *Halo WIMP Analysis*
 3. *The IceCube Good Run List (plenary)*
 4. *Plans for the Good Run List*
 IceCube Collaboration Meeting, May 3 - 7 2010, Annapolis, MD, USA
15.
 1. *Halo Dark Matter Tutorial*
 2. *Dark Matter Halo Analysis*
 3. *Progress on Neutrino Oscillations*
 4. *Good Run List (plenary)*
 IceCube Collaboration Meeting, September 2009, Berlin, Germany
14.
 1. *Good Run List Status (plenary)*
 2. *Dark Matter Halo Analysis*
 3. *Earth WIMP Analysis Status*
 4. *Neutrino Oscillations Analysis*
 IceCube Collaboration Meeting, April 28 - May 2, 2009, Madison, WI, USA
13.
 1. *Dark Matter Halo Searches*
 2. *Update on the Search for Earth Wimps*
 3. *Update on the Neutrino Oscillations Analysis*
 4. *Good Run and Good DOM Lists*
 5. *Data Quality Report: IceCube 40-string Detector (plenary)*
 IceCube Collaboration Meeting, September 15-19, 2008, Utrecht, Netherlands
12.
 1. *Good Run List 2007 and Plans / Goals for 2008*
 2. *Average Waveform Verification Analysis*
 IceCube Collaboration Meeting, May 2008, Madison, USA
11.
 1. *The IceCube String Trigger*
 2. *Filter Development for IceCube-40*
 3. *Summary of Verification/Monitoring Plots (plenary)*
 4. *Good Run List Summary (plenary)*
 IceCube Collaboration Meeting, October 6-10, 2007, Ghent, Belgium

10.
 1. *String Trigger and IceCube Low Energy Sensitivity*
 2. *Geometry Calibration with Down-going Muons*
 3. *Good Run List Proposal (plenary)*
 4. *Extremely High Energy Analysis Verification: Status & Plan*
 5. *Intrastring Timing for Calibration & Verification with Muons*
 6. *Digital Optical Module Verification*

IceCube Collaboration Meeting, April 24-28, 2007, Lake Geneva, WI, USA
9.
 1. *Plans for using AMANDA and commissioning of AMANDA/IceCube coincidence hardware and software*
 2. *Time Trends in the Data*
 3. *Laser Timing Calibration and Channel Maintenance*
 4. *Calibration & Verification Results, Current Status and Plans for 2007*
 5. *Golden DOMs (Absolute and Collection Efficiency Measurements)*

IceCube Collaboration Meeting, October 6-10, 2006, DESY Zeuthen, Germany
8.
 1. *Muon Reconstruction Users Perspective*
 2. *DOM Efficiency with Down-going Muons*
 3. *Verification and Simulation*

IceCube Analysis Meeting, June 21-24, 2006, University Park, USA
7.
 1. *AMANDA Timing Calibration*
 2. *Interstring Timing Verification with Down-going Muons*
 3. *DOM (Digital Optical Module) Efficiency Studies with Down-going Muons*
 4. *Long Term IceCube Timing Stability Studies*

IceCube Collaboration Meeting, April 9-14, 2006, Baton Rouge, USA
6.
 1. *AMANDA Timing and Alpha Calibration using Down-going Muons*
 2. *DOM Sensitivity Map Analysis*

IceCube Collaboration Meeting, September 25-29, 2005, Imperial College, London, Great Britain
5.
 1. *T0 Timing Calibrations*

IceCube/AMANDA Collaboration Meeting, March 19-23, 2005, UC Berkeley, USA
4.
 1. *Search for Sbottom in Gluino Decays*

CMS Week, September 20-24, 2004, CERN, Geneva, Switzerland
3.
 1. *Search for Gluino decaying into Sbottom and Bottom (plenary)*

CDF Week, July 26-30, 2004, Batavia, IL, USA
2.
 1. *Search for Gluino into Sbottom and Bottom (plenary)*

CDF Collaboration Meeting, September 18, 2003, Batavia, IL, USA
1.
 1. *Optimization of the SecVtx - Secondary Vertex Tagging Algorithm (plenary)*

CDF Collaboration Meeting, January 23-24, 2003, Batavia, IL, USA

Teaching Experience

4. *Lecturer - GCOE Nagoya Winter School*
February 2010, Nagoya University, Japan
3. *Instructor Physics Lab for Physics Majors*
Spring 2000, Purdue University, USA
2. *Instructor Physics Lab for Engineers*
Spring, Fall 1999, Purdue University, USA
1. *Grader and Tutor for Theoretical Physics I, II*
Spring, Fall 1997, University of Hannover, Germany

SUPERVISION OF
STUDENT
PROJECTS

- Graduate Students:
 - Tania Wood (2011 – present) (University of Alberta) – DeepCore Galactic Center Sensitivity
 - Jan Luenemann (2010 – present) (University of Mainz) – IceCube Search for Neutrino Signals from Dwarf Spheroidal Galaxies (ICRC 2011 #1024)
 - James Davis (2009 – 2011) (Ohio State) – IceCube Filters, Indirect Searches for Dark Matter with IceCube/DeepCore
 - Takayuki Tanaka (2009 – 2011) (STEL, Nagoya) – Interpretation of Indirect WIMP Searches with Neutrinos (JCAP09(2011)029)
 - Geoffrey Smith (2010) (Ohio State) – Sensitivity Studies for Future ice-Cherenkov Detectors
 - Matt Kistler (2008 – 2010) (Ohio State) – Dark Matter Signals in DeepCore
 - Jan-Patrick Huelss (2009) (Aachen) – Galactic Dark Matter Halo Analysis
 - Chang Hyon Ha (2006 – 2008) (Penn State)– Filter Algorithms for the Identification of down-going Neutrino Events, Southern Sky Sources
 - Stephanie Hickford (2007 – 2008) (University of Canterbury, New Zealand) – IceCube Data Quality (Local Coincidence algorithms)
 - Anna Franckowiak (2007) (Humboldt University, Germany) – IceCube online Data Stability Tools
- Undergraduate Students:
 - Hong Wong (2010 – 2011) (Ohio State) – IceCube Data Quality (IceCube Internal Report 201109002) and Earth WIMPs Sensitivity
 - Eric Suchyta (2009 – 2010) (Ohio State) – Radio Attenuation Length Measurement with AURA array (Senior Thesis Spring 2010)
 - Jesse Parsons (2009 – 2010) (Ohio State) – IceCube Good Run List Tools Development
 - Alan Slipak (2008) (Penn State) – AMANDA bad DOM Identification

OUTREACH

- Talks at Ohio State Undergraduate Physics Society
- Organizer of Career Development Workshops at IceCube Meetings
- OSU Department of Astronomy Summer Undergraduate Research Experience student co-Advisor (2009)
- News Articles (Sunday Science Article in the Columbus Dispatch “Trapping space ghosts” May 17, 2009)
- Several public talks and guiding tours and observations at the Volkssternwarte Hannover (Public observatory), Germany

MEMBERSHIP

- American Physical Society APS (since 2001)

SKILLS

Programming Languages: C++, Java, Basic, Pascal
Scripting: Shell scripts, Python, PERL
Software: Root, PAW, Maple, Labview, MS Office, HTML, PHP,
Web design, Internet applications,
various event generators and GEANT based simulations,
MySQL, SVN software repository manager
Operating Systems: Linux, Windows 95/98/2000/NT4.0/XP/Vista, MS-DOS
Languages: German, English; Elementary: French and Japanese

PUBLICATION IN
PREPARATION

5. **“New Signals of Solar WIMP Annihilation”**
J. Beacom, C. Rott, J. Siegal-Gaskins, in preparation, to be submitted to Phys. Rev. Lett.
4. **“Solar Atmospheric Neutrinos in Light of Fermi”**
A. Peter, C. Rott, in preparation
3. **“Search for Dark Matter from the Galactic Center with IceCube”**
C. Rott one of the lead authors [IceCube Collaboration], in preparation, to be submitted to Phys. Rev. Lett.
2. **“Velocity Dependent Dark Matter Annihilations”**
J. Kumar, L. Strigari, C. Rott, in preparation, to be submitted to Phys. Rev. Lett.
1. **“Atmospheric Science with Neutrino Detectors”**
C. Rott, A. Deierling, in preparation

PUBLICATIONS AS
CORRESPOND-
ING/FIRST
AUTHOR

5. **“Enhanced Sensitivity to Dark Matter Self-annihilations in the Sun using Neutrino Spectral Information”**
C. Rott, T. Tanaka, Y. Itow.
JCAP **1109**, 029 (2011) [arXiv:1107.3182 [astro-ph.HE]]
4. **“Search for Dark Matter from the Galactic Halo with the IceCube Neutrino Observatory”**
R. Abbasi *et al.* [IceCube Collaboration]
Phys. Rev. D **84**, 022004 (2011) [arXiv:1101.3349 [astro-ph.HE]]
3. **“A search for scalar bottom quarks from gluino decays in $\bar{p}p$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 171802 (2006) [arXiv:hep-ex/0512072]
2. **“Search for Scalar Bottom Quarks from Gluino Decays in $p\bar{p}$ Collisions at a Center-of-Mass Energy of 1.96-TeV”**
C. Rott
FERMILAB-THESIS-2004-52(2004)
1. **“Beam test results of the US - CMS forward pixel detector”**
M. Atac *et al.*
Nucl. Instrum. Meth. A **488**, 271 (2002)

22. **“The Design and Performance of IceCube DeepCore,”**
R. Abbasi *et al.* [IceCube Collaboration] [arXiv:1109.6096 [astro-ph.IM]] (submitted Astropart. Phys.)
21. **“First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1101.1692 [astro-ph.HE] (submitted to PRD)
20. **“The first search for extremely-high energy cosmogenic neutrinos with the IceCube Neutrino Observatory”**
R. Abbasi *et al.* [IceCube Collaboration]
Phys. Rev. **D82**, 072003 (2010) [arXiv:1009.1442 [astro-ph.CO]]
19. **“Calibration and Characterization of the IceCube Photomultiplier Tube”**
R. Abbasi *et al.* [The IceCube Collaboration]
Nucl. Instrum. Meth. A **618**, 139 (2010) [arXiv:1002.2442 [astro-ph.IM]]
18. **“Limits on a muon flux from Kaluza-Klein dark matter annihilations in the Sun from the IceCube 22-string detector”**
R. Abbasi *et al.* [The IceCube collaboration]
Phys. Rev. D **81**, 057101 (2010) [arXiv:0910.4480 [astro-ph.CO]]
17. **“Origin and evolution of cosmic accelerators - the unique discovery potential of an UHE neutrino telescope: Astronomy Decadal Survey (2010-2020) Science White Paper,”**
P. Chen and K. D. Hoffman [ANITA and IceCube Collaborations]
arXiv:0902.3288 [astro-ph.CO]
16. **“Limits on a muon flux from neutralino annihilations in the Sun with the IceCube 22-string detector”**
R. Abbasi *et al.* [IceCube Collaboration]
Phys. Rev. Lett. **102**, 201302 (2009) [arXiv:0902.2460 [astro-ph.CO]]
15. **“The IceCube Data Acquisition System: Signal Capture, Digitization, and Timestamping”**
R. Abbasi *et al.* [IceCube Collaboration]
Nucl. Instrum. Meth. A **601**, 294 (2009) [arXiv:0810.4930 [physics.ins-det]]
14. **“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 (2008) [arXiv:0802.0432 [hep-ex]]
13. **“Detection of Atmospheric Muon Neutrinos with the IceCube 9-String Detector”**
A. Achterberg *et al.* [The IceCube Collaboration]
Phys. Rev. D **76**, 027101 (2007) [arXiv:0705.1781 [astro-ph]]
12. **“First year performance of the IceCube neutrino telescope”**
A. Achterberg *et al.* [IceCube Collaboration]
Astropart. Phys. **26**, 155 (2006) [arXiv:astro-ph/0604450]

11. **“Measurement of the $t\bar{t}$ Production Cross Section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ using Lepton + Jets Events with Jet Probability b^- tagging”**
A. Abulencia *et al.* [CDF Collaboration and CDF - Run II Collaboration]
Phys. Rev. D **74**, 072006 (2006) [arXiv:hep-ex/0607035]
10. **“Measurement of the t anti- t production cross section in p anti- p collisions at $\sqrt{s} = 1.96\text{-TeV}$ using missing $E(t)$ + jets events with secondary vertex b -tagging”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 202002 (2006) [arXiv:hep-ex/0603043]
9. **“Search for H to b anti- b produced in association with W bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 081803 (2006) [arXiv:hep-ex/0512051]
8. **“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 (2005) [arXiv:hep-ex/0504053]
7. **“Measurement of the top quark mass with the dynamical likelihood method using lepton plus jets events with b -tags in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 092002 (2006) [arXiv:hep-ex/0512009]
6. **“Search for charged Higgs bosons from top quark decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 042003 (2006) [arXiv:hep-ex/0510065]
5. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{ TeV}$ using lepton + jets events with secondary vertex b^- -tagging”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 052003 (2005) [arXiv:hep-ex/0410041]
4. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{ TeV}$ using kinematic fitting of b^- -tagged lepton + jet events”**
D. E. Acosta *et al.* [CDF-II Collaboration]
Phys. Rev. D **71**, 072005 (2005) [arXiv:hep-ex/0409029]
3. **“Search for scalar leptoquark pairs decaying to $\nu\bar{\nu}q\bar{q}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{ TeV}$ ”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 112001 (2005) [Erratum-ibid. D **71**, 119901 (2005)] [arXiv:hep-ex/0410076]
2. **“Search for pair production of scalar top quarks in R -parity violating decay modes in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **92**, 051803 (2004) [arXiv:hep-ex/0305010]
1. **“Search for the supersymmetric partner of the top quark in dilepton events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **90**, 251801 (2003) [arXiv:hep-ex/0302009]

23. **“Search for Dark Matter in the Milky Way with IceCube”**
C. Rott *et al.* [IceCube Collaboration]
Submitted to the Proceedings of the 2011 International Cosmic Ray Conference, August 2011, Beijing, China
22. **“Search for Dark Matter in nearby Dwarf Spheroidal Galaxies with IceCube”**
J. Luenemann, C. Rott [IceCube Collaboration]
Submitted to the Proceedings of the 2011 International Cosmic Ray Conference, August 2011, Beijing, China
21. **“Conversion of Neutrino Fluxes from Dark Matter Self-annihilations in the Sun to WIMP-nucleon Scattering Cross Sections”**
C. Rott, T. Tanaka, Y. Itow, J. F. Beacom
Proceedings of Identification of Dark Matter (IDM 2010), July 26-30, 2010, Montpellier, France
PoS(IDM2010)037
20. **“IceCube Collaboration Contributions to the 2009 International Cosmic Ray Conference”**
R. Abbasi *et al.*
arXiv:1004.2093 [astro-ph.HE]
19. **“Search for Dark Matter from the Galactic Halo with IceCube”**
C. Rott [IceCube Collaboration]
Proceedings of the 1st CCAPP Symposium, Columbus, OH, September 12-14, 2009
[arXiv:0912.5183 [astro-ph.HE]]
18. **“Measurement of Radio Frequency Attenuation in Polar Ice using AURA”**
E. Suchyta and C. Rott [IceCube Collaboration]
To appear in the proceedings of the 1st CCAPP Symposium, Columbus, OH, September 12-14, 2009
17. **“Atmospheric Neutrino Oscillation Measurements with IceCube”**
C. Rott [IceCube Collaboration]
Prepared for 31th International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 7-15 2009
16. **“Results and Prospects of Indirect Searches for Dark Matter with IceCube”**
C. Rott and G. Wikstrom [IceCube Collaboration]
Prepared for 31th International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 7-15 2009
15. **“Fundamental Neutrino Measurements with IceCube Deep Core”**
D. Grant, J. Koskinen, and C. Rott [IceCube Collaboration]
Prepared for 31th International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 7-15 2009
14. **“Latest Results from the IceCube Neutrino Observatory”**
C. Rott [IceCube Collaboration]
Proceedings of 44th Rencontres de Moriond on Electroweak Interactions and Unified Theories, La Thuile, Aosta Valley, Italy, Mar 2009.

13. **“IceRay: An IceCube-centered Radio-Cherenkov GZK Neutrino Detector”**
P. Allison *et al.*
arXiv:0904.1309 [astro-ph.HE]
12. **“Neutrino Oscillation Measurements with IceCube”**
C. Rott [IceCube Collaboration]
Parallel talk at ICHEP08, Philadelphia, USA, July 2008 [arXiv:0810.3698 [astro-ph]]
11. **“Indirect searches for dark matter with IceCube”**
C. Rott [IceCube Collaboration]
J. Phys. Conf. Ser. **120**, 022009 (2008) [arXiv:0712.3524]
10. **“The combined AMANDA and IceCube Neutrino Telescope”**
A. Gross, C. Ha, C. Rott, M. Thuczykont, E. Resconi, T. DeYoung and G. Wikstrom [IceCube Collaboration]
Prepared for 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007
9. **“IceCube: Performance, status, and future”**
C. Rott [IceCube Collaboration]
Nucl. Phys. Proc. Suppl. **175-176**, 409 (2008) [arXiv:astro-ph/0611726]
14th International Symposium on Very High Energy Cosmic Ray Interactions (ISVHECRI 2006), Weihai, China, 15-22 Aug 2006
8. **“Contributions to 2nd TeV particle astrophysics conference (TeV PA II) Madison Wisconsin - 28-31 August 2006”**
A. Achterberg *et al.* [IceCube Collaboration], arXiv:astro-ph/0611597.
7. **“The IceCube collaboration: Contributions to the 29th international cosmic ray conference (ICRC 2005), Pune, India, Aug. 2005”**
A. Achterberg *et al.* [IceCube Collaboration]
arXiv:astro-ph/0509330
Contributed to 29th International Cosmic Ray Conference (ICRC 2005), Pune, India, 3-11 Aug 2005
6. **“From AMANDA to IceCube”**
M. Ribordy *et al.* [IceCube Collaboration]
Phys. Atom. Nucl. **69**, 1899 (2006) [arXiv:astro-ph/0509322]
5. **“Searches for the supersymmetric partner of the bottom quark”**
C. Rott [CDF Collaboration]
FERMILAB-CONF-04-355-E(2004) [arXiv:hep-ex/0410007]
Proceedings of 12th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 04), Tsukuba, Japan, 17-23 Jun 2004
4. **“Search for top and bottom squarks”**
C. Rott
Eur. Phys. J. C **33**, S743 (2004)
Presented at International Europhysics Conference on High-Energy Physics (HEP 2003), Aachen, Germany, 17-23 Jul 2003
3. **“Irradiation studies of silicon pixel detectors for CMS”**
G. Bolla, D. Bortoletto, K. Giolo, R. Horisberger, T. Rohe, C. Rott and A. Roy
Nucl. Instrum. Meth. A **501**, 160 (2003)
Prepared for 10th International Workshop on Vertex Detectors (Vertex 2001), Brunnen, Switzerland, 23-28 Sep 2001

2. **“Diamond pixel detectors”**
W. Adam *et al.*
Nucl. Instrum. Meth. A **465**, 88 (2000)
Prepared for International Workshop on Semiconductor Pixel Detectors for Particles and X-Rays (PIXEL 2000), Genova, Italy, 5-8 Jun 2000
1. **“Design and test of pixel sensors for the CMS experiment”**
G. Bolla *et al.*
Nucl. Instrum. Meth. A **461**, 182 (2001)
Prepared for 8th Pisa Meeting on Advanced Detectors: Frontier Detectors for Frontier Physics, La Biodola, Isola d’Elba, Italy, 21-25 May 2000

PUBLICATIONS AS
MEMBER OF
COLLABORATIONS

151. **“Observation of an Anisotropy in the Galactic Cosmic Ray arrival direction at 400 TeV with IceCube”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1109.1017 [hep-ex]
150. **“Searches for periodic neutrino emission from binary systems with 22 and 40 strings of IceCube”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1108.3023 [astro-ph.HE]
149. **“IceCube Sensitivity for Low-Energy Neutrinos from Nearby Supernovae”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1108.0171 [astro-ph.HE]
148. **“A Search for a Diffuse Flux of Astrophysical Muon Neutrinos with the IceCube 40-String Detector”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1104.5187 [astro-ph.HE]
147. **“Constraints on the Extremely-high Energy Cosmic Neutrino Flux with the IceCube 2008-2009 Data”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1103.4250 [astro-ph.CO]
Phys. Rev. **D83**, 092003 (2011)
146. **“Background studies for acoustic neutrino detection at the South Pole”**
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1103.1216 [astro-ph.IM]
“Constraints on high-energy neutrino emission from SN 2008D”
R. Abbasi *et al.* [IceCube Collaboration]
arXiv:1101.3942 [astro-ph.HE]
Astron. Astrophys. **527**, A28 (2011)
145. **“Search for neutrino-induced cascades with five years of AMANDA data,”**
R. Abbasi, *et al.* [IceCube Collaboration], Astropart. Phys. **34**, 420-430 (2011).
144. **“Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector”**
R. Abbasi *et al.* [IceCube Collaboration], Phys. Rev. Lett. **106**, 141101 (2011).
arXiv:1101.1448 [astro-ph.HE]

143. **“Time-Integrated Searches for Point-like Sources of Neutrinos with the 40-String IceCube Detector”**
 R. Abbasi *et al.* [The IceCube Collaboration]
 arXiv:1012.2137 [astro-ph.HE]
 Astrophys. J. **732**, 18 (2011)
142. **“Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube”**
 R. Abbasi *et al.* [IceCube Collaboration]
 arXiv:1010.4096 [astro-ph.HE]
 Phys. Rev. **D82**, 112003 (2010)
141. **“Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube”**
 R. Abbasi *et al.* [IceCube Collaboration]
 arXiv:1010.3980 [astro-ph.HE]
 Phys. Rev. **D83**, 012001 (2011)
140. **“The Energy Spectrum of Atmospheric Neutrinos between 2 and 200 TeV with the AMANDA-II Detector”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Astropart. Phys. **34**, 48 (2010) arXiv:1004.2357 [astro-ph.HE]
139. **“Search For Relativistic Magnetic Monopoles With The Amanda-II Neutrino Telescope”**
 R. Abbasi *et al.*
 Eur. Phys. J. C **69**, 361 (2010).
138. **“Measurement of the Anisotropy of Cosmic Ray Arrival Directions with IceCube”**
 R. Abbasi *et al.* [The IceCube Collaboration]
 Astrophys. J. **718**, L194 (2010) [arXiv:1005.2960 [astro-ph.HE]]
137. **“Measurement of sound speed vs. depth in South Pole ice for neutrino astronomy”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Astropart. Phys. **33**, 277 (2010) [arXiv:0909.2629 [astro-ph.IM]]
136. **“Extending the search for neutrino point sources with IceCube above the horizon”**
 R. Abbasi *et al.* [The IceCube Collaboration]
 arXiv:0911.2338 [astro-ph.HE]
135. **“Search for muon neutrinos from Gamma-Ray Bursts with the IceCube neutrino telescope”**
 R. Abbasi *et al.* [IceCube Collaboration]
 arXiv:0907.2227 [astro-ph.HE]
134. **“First Neutrino Point-Source Results From the 22-String IceCube Detector”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Astrophys. J. **701**, L47 (2009) [arXiv:0905.2253 [astro-ph.HE]]
133. **“Determination of the Atmospheric Neutrino Flux and Searches for New Physics with AMANDA-II”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Phys. Rev. D **79**, 102005 (2009) [arXiv:0902.0675 [astro-ph.HE]]

132. **“Search for high-energy muon neutrinos from the ‘naked-eye’ GRB 080319B with the IceCube neutrino telescope”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Astrophys. J. **701**, 1721 (2009) [arXiv:0902.0131 [astro-ph.HE]]
131. **“Solar Energetic Particle Spectrum on 13 December 2006 Determined by IceTop”**
 R. Abbasi *et al.* [IceCube Collaboration]
 arXiv:0810.2034 [astro-ph]
130. **“Search for Point Sources of High Energy Neutrinos with Final Data from AMANDA-II”**
 R. Abbasi *et al.* [IceCube Collaboration]
 Phys. Rev. D **79**, 062001 (2009) [arXiv:0809.1646 [astro-ph]]
129. **“CMS physics: Technical design report”**
 G. L. Bayatian *et al.* [CMS Collaboration]
 CERN-LHCC-2006-001()
128. **“Search for Ultra High-Energy Neutrinos with AMANDA-II”**
 M. Ackermann *et al.* [IceCube Collaboration]
 Astrophys. J. **675**, 1014 (2008) [arXiv:0711.3022 [astro-ph]]
127. **“CMS technical design report, volume II: Physics performance”**
 G. L. Bayatian *et al.* [CMS Collaboration]
 J. Phys. G **34**, 995 (2007)
126. **“CMS expression of interest in the SLHC”**
 J. . (. Nash *et al.* [CMS Collaboration]
 CERN-LHCC-2007-014(2007)
125. **“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 (2007)
124. **“RD50 status report 2006: Radiation hard semiconductor devices for very high luminosity colliders”**
 P. Balbuena *et al.* [RD50 Collaboration]
 CERN-LHCC-2007-005(2007)
123. **“Multi-year search for a diffuse flux of muon neutrinos with AMANDA-II”**
 A. Achterberg *et al.* [IceCube Collaboration]
 Phys. Rev. D **76**, 042008 (2007) [Erratum-ibid. D **77**, 089904 (2008)] [arXiv:0705.1315 [astro-ph]]
122. **“The search for muon neutrinos from northern hemisphere gamma-ray bursts with AMANDA”**
 A. Achterberg *et al.* [The IceCube Collaboration and the IPN Collaboration]
 Astrophys. J. **674**, 357 (2008) [arXiv:0705.1186 [astro-ph]]
121. **“RD50 status report 2005: Radiation hard semiconductor devices for very high luminosity colliders”**
 F. Campabadal *et al.* [RD50 Collaboration]
 CERN-LHCC-2005-037(2005)

120. **“Search for neutrino-induced cascades from gamma-ray bursts with AMANDA”**
A. Achterberg *et al.* [IceCube Collaboration]
Astrophys. J. **664**, 397 (2007) [arXiv:astro-ph/0702265]
119. **“Limits On The Muon Flux From Neutralino Annihilations At The Center Of The Earth With Amanda”**
A. Achterberg *et al.* [AMANDA Collaboration]
Astropart. Phys. **26**, 129 (2006)
118. **“Five years of searches for point sources of astrophysical neutrinos with the AMANDA-II neutrino telescope”**
A. Achterberg *et al.* [IceCube Collaboration]
Phys. Rev. D **75**, 102001 (2007) [arXiv:astro-ph/0611063]
117. **“On the selection of AGN neutrino source candidates for a source stack-analysis with neutrino telescopes”**
A. Achterberg *et al.* [IceCube Collaboration]
Astropart. Phys. **26**, 282 (2006) [arXiv:astro-ph/0609534]
116. **“Observation of $B^0 (s) \rightarrow K^+K^-$ and Measurements of Branching Fractions of Charmless Two-body Decays of B^0 and B_s^0 Mesons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 211802 (2006) [arXiv:hep-ex/0607021]
115. **“Limits on the high-energy gamma and neutrino fluxes from the SGR 1806-20 giant flare of December 27th, 2004 with the AMANDA-II detector”**
A. Achterberg *et al.* [IceCube Collaboration]
Phys. Rev. Lett. **97**, 221101 (2006) [arXiv:astro-ph/0607233]
114. **“Search for excited and exotic muons in the $\mu\gamma$ decay channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 191802 (2006) [arXiv:hep-ex/0606043]
113. **“Measurement of the $B_s^0 - \bar{B}_s^0$ Oscillation Frequency”**
A. Abulencia *et al.* [CDF - Run II Collaboration]
Phys. Rev. Lett. **97**, 062003 (2006) [arXiv:hep-ex/0606027]
112. **“Measurement of the tantit Production Cross Section in p anti-ptnipbar Collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 082004 (2006) [arXiv:hep-ex/0606017]
111. **“Search for a neutral Higgs boson decaying to a W boson pair in p antip collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 081802 (2006) [arXiv:hep-ex/0605124]
110. **“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 (2006) [arXiv:hep-ex/0605118]

109. **“Measurement of the b jet cross-section in events with a Z boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **74**, 032008 (2006) [arXiv:hep-ex/0605099]
108. **“Search for new physics in lepton + photon + X events with 305 pb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 031801 (2006) [arXiv:hep-ex/0605097]
107. **“Measurement of the ratio of branching fractions $B(D0 \rightarrow K^+\pi^-) / B(D0 \rightarrow K^-\pi^+)$ using the CDF II Detector”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **74**, 031109 (2006) [arXiv:hep-ex/0605027]
106. **“Search for large extra dimensions in the production of jets and missing transverse energy in p anti- p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 171802 (2006) [arXiv:hep-ex/0605101]
105. **“Measurement of the $B/c+$ meson lifetime using $B/c+ \rightarrow J/\psi e^+ \nu_e$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **97**, 012002 (2006) [arXiv:hep-ex/0603027]
104. **“Search for high-mass resonances decaying to $e\mu$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 211802 (2006) [arXiv:hep-ex/0603006]
103. **“Search for $Z' \rightarrow e^+e^-$ using dielectron mass and angular distribution”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 211801 (2006) [arXiv:hep-ex/0602045]
102. **“Measurement of the top quark mass using template methods on dilepton events in proton antiproton collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 112006 (2006) [arXiv:hep-ex/0602008]
101. **“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 (2006) [arXiv:hep-ex/0602005]
100. **“Recent advancements in the development of radiation hard semiconductor detectors for S-LHC”**
E. Fretwurst *et al.* [CERN RD50 Collaboration]
Nucl. Instrum. Meth. A **552**, 7 (2005)
99. **“Measurement of $\sigma(\Lambda_b^0)/\sigma(\bar{B}^0) \times BR(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-) / BR(anti-B0 \rightarrow D^+ \pi^-)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **98**, 122002 (2007) [arXiv:hep-ex/0601003]
98. **“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 (2006) [arXiv:hep-ex/0512074]

97. **“Top quark mass measurement from dilepton events at CDF II”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 152002 (2006) [arXiv:hep-ex/0512070]
96. **“Measurement of mass and width of the excited charmed meson states D10 and D2*0”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 051104 (2006) [arXiv:hep-ex/0512069]
95. **“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 (2006) [arXiv:hep-ex/0512065]
94. **“Measurement of the inclusive jet cross section using the k(t) algorithm in p anti-p collisions at $\sqrt{s} = 1.96$ -TeV”**
A. Abulencia *et al.* [CDF II Collaboration]
Phys. Rev. Lett. **96**, 122001 (2006) [arXiv:hep-ex/0512062]
93. **“Search for second-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 051102 (2006) [arXiv:hep-ex/0512055]
92. **“Measurement of the inclusive jet cross section in $p\bar{p}$ interactions at $\sqrt{s} = 1.96$ -TeV using a cone-based jet algorithm”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **74**, 071103 (2006) [arXiv:hep-ex/0512020]
91. **“Measurement of the helicity of W bosons in top-quark decays”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 111103 (2006) [arXiv:hep-ex/0511023]
90. **“A search for $t \rightarrow tau\nu q$ in $t\bar{t}$ production”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Lett. B **639**, 172 (2006) [arXiv:hep-ex/0510063]
89. **“Precision top quark mass measurement in the lepton + jets topology in p anti-p collisions at $\sqrt{s} = 1.96$ -TeV”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 022004 (2006) [arXiv:hep-ex/0510049]
88. **“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 (2006) [arXiv:hep-ex/0510048]
87. **“Multi-messenger studies with AMANDA/IceCube: Observations and strategies”**
A. Achterberg *et al.* [IceCube Collaboration]
arXiv:astro-ph/0509396
86. **“Direct search for Dirac magnetic monopoles in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 201801 (2006) [arXiv:hep-ex/0509015]

85. **“Development of radiation tolerant semiconductor detectors for the Super-LHC”**
M. Moll *et al.* [CERN RD50 Collaboration]
Nucl. Instrum. Meth. A **546**, 99 (2005)
Prepared for 6th International Workshop on Radiation Imaging Detectors (IWORID 2005), Glasgow, Scotland, 25-29 Jul 2004
84. **“Search for neutral MSSM Higgs bosons decaying to tau pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 011802 (2006) [arXiv:hep-ex/0508051]
83. **“Search for $B_s \rightarrow \mu^+\mu^-$ and $B_d \rightarrow \mu^+\mu^-$ decays in $p\bar{p}$ collisions with CDF II”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **95**, 221805 (2005) [Erratum-ibid. **95**, 249905 (2005)] [arXiv:hep-ex/0508036]
82. **“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 **34**, 2457 (2007) [arXiv:hep-ex/0508029]
81. **“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 (2006) [arXiv:hep-ex/0508022]
80. **“Measurement of the ratios of branching fractions $B(B_s^0 \rightarrow D_s^- \pi^+)/B(B^0 \rightarrow D^- \pi^+)$ and $B(B^+ \rightarrow \bar{D}^0 \pi^+)/B(B^0 \rightarrow D^- \pi^+)$ ”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **96**, 191801 (2006) [arXiv:hep-ex/0508014]
79. **“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 (2005)
78. **“Search for new high mass particles decaying to lepton pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
A. Abulencia *et al.* [CDF Collaboration]
Phys. Rev. Lett. **95**, 252001 (2005) [arXiv:hep-ex/0507104]
77. **“Radiation-hard semiconductor detectors for SuperLHC”**
M. Bruzzi *et al.*
Nucl. Instrum. Meth. A **541**, 189 (2005)
Prepared for 5th International Symposium on the Development and Application of Semiconductor Tracking Detectors (STD Hiroshima), Hiroshima, Japan, 14-17 Jun 2004
76. **“Search for $\Lambda_b \rightarrow p\pi$ and $\Lambda_b \rightarrow pK$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **72**, 051104 (2005) [arXiv:hep-ex/0507067]
75. **“Search for W and Z bosons in the reaction $p\bar{p} \rightarrow 2\text{jets} + \gamma$ at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 012001 (2006) [arXiv:hep-ex/0507051]

74. **“Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **72**, 051107 (2005) [arXiv:hep-ex/0506074]
73. **“A search for supersymmetric Higgs bosons in the di-tau decay mode in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **72**, 072004 (2005) [arXiv:hep-ex/0506042]
72. **“Search for new physics using high mass tau pairs from 1.96 TeV $p\bar{p}$ collisions”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **95**, 131801 (2005) [arXiv:hep-ex/0506034]
71. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using lepton plus jets events with semileptonic B decays to muons”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **72**, 032002 (2005) [arXiv:hep-ex/0506001]
70. **“Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ at the Collider Detector at Fermilab”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **95**, 102002 (2005) [arXiv:hep-ex/0505091]
69. **“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 (2006) [arXiv:hep-ex/0505076]
68. **“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 (2005) [arXiv:hep-ex/0505013]
67. **“ 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 (2005) [arXiv:hep-ex/0504048]
66. **“Measurement of the azimuthal angle distribution of leptons from W boson decays as a function of the W transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **73**, 052002 (2006) [arXiv:hep-ex/0504020]
65. **“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 (2005) [arXiv:hep-ex/0503039]
64. **“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 (2005) [arXiv:hep-ex/0503004]

63. **“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 (2005) [arXiv:hep-ex/0502044]
62. **“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 (2005) [arXiv:hep-ex/0502003]
61. **“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 (2005) [arXiv:hep-ex/0501050]
60. **“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 (2005) [arXiv:hep-ex/0501023]
59. **“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 (2005) [arXiv:hep-ex/0501021]
58. **“Measurement of the J/ψ meson and b -hadron production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 032001 (2005) [arXiv:hep-ex/0412071]
57. **“Measurement of the lifetime difference between $B(s)$ mass eigenstates”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **94**, 101803 (2005) [arXiv:hep-ex/0412057]
56. **“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 (2005) [arXiv:hep-ex/0412050]
55. **“Search for anomalous kinematics in $t\bar{t}$ dilepton events at CDF II”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **95**, 022001 (2005) [arXiv:hep-ex/0412042]
54. **“Measurements of $b\bar{b}$ azimuthal production correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 092001 (2005) [arXiv:hep-ex/0412006]
53. **“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 (2005) [Erratum-ibid. D **71**, 059901 (2005)] [arXiv:hep-ex/0411070]
52. **“Measurement of the forward-backward charge asymmetry of electron positron pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 052002 (2005) [arXiv:hep-ex/0411059]

51. **“Measurement of charged particle multiplicities in gluon and quark jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **94**, 171802 (2005)
50. **“Search for electroweak single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 012005 (2005) [arXiv:hep-ex/0410058]
49. **“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 (2005) [arXiv:hep-ex/0410053]
48. **“Comparison of three-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV to predictions from a next-to-leading order QCD calculation”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **71**, 032002 (2005) [arXiv:hep-ex/0410018]
47. **“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 (2005) [arXiv:hep-ex/0504006]
46. **“Search for excited and exotic electrons in the $e\gamma$ decay channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **94**, 101802 (2005) [arXiv:hep-ex/0410013]
45. **“Measurement of $W\gamma$ and $Z\gamma$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF II Collaboration]
Phys. Rev. Lett. **94**, 041803 (2005) [arXiv:hep-ex/0410008]
44. **“First measurements of inclusive W and Z cross sections from Run II of the Tevatron collider”**
D. E. Acosta *et al.* [CDF II Collaboration]
Phys. Rev. Lett. **94**, 091803 (2005) [arXiv:hep-ex/0406078]
43. **“Search for doubly-charged Higgs bosons decaying to dileptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **93**, 221802 (2004) [arXiv:hep-ex/0406073]
42. **“Inclusive search for anomalous production of high p_T like-sign lepton pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **93**, 061802 (2004) [arXiv:hep-ex/0405063]
41. **“Measurement of the $t\bar{t}$ 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. **93**, 142001 (2004) [arXiv:hep-ex/0404036]
40. **“Direct photon cross section with conversions at CDF”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **70**, 074008 (2004) [arXiv:hep-ex/0404022]

39. **“The underlying event in hard interactions at the Tevatron $\bar{p}p$ collider”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **70**, 072002 (2004) [arXiv:hep-ex/0404004]
38. **“Optimized search for single top quark production at the Fermilab Tevatron”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **69**, 052003 (2004)
37. **“Search for $B_s^0 \rightarrow \mu^+\mu^-$ and $B_d^0 \rightarrow \mu^+\mu^-$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **93**, 032001 (2004) [arXiv:hep-ex/0403032]
36. **“Observation of the narrow state $X(3872) \rightarrow J/\psi\pi^+\pi^-$ in $\bar{p}p$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF II Collaboration]
Phys. Rev. Lett. **93**, 072001 (2004) [arXiv:hep-ex/0312021]
35. **“Heavy flavor properties of jets produced in $p\bar{p}$ interactions at $\sqrt{s} = 1.8$ -TeV”**
D. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **69**, 072004 (2004) [arXiv:hep-ex/0311051]
34. **“Measurement of the polar-angle distribution of leptons from W boson decay as a function of the W transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **70**, 032004 (2004) [arXiv:hep-ex/0311050]
33. **“Combination of CDF and DØ results on W boson mass and width”**
V. M. Abazov *et al.* [CDF Collaboration and D0 Collaboration]
Phys. Rev. D **70**, 092008 (2004) [arXiv:hep-ex/0311039]
32. **“Inclusive double pomeron exchange at the Fermilab Tevatron $\bar{p}p$ collider”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **93**, 141601 (2004) [arXiv:hep-ex/0311023]
31. **“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 (2004) [arXiv:hep-ex/0309030]
30. **“Search for the flavor-changing neutral current decay $D^0 \rightarrow \mu^+\mu^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **68**, 091101 (2003) [arXiv:hep-ex/0308059]
29. **“Measurement of the mass difference $m(D_s^+) - m(D^+)$ at CDF II”**
D. E. Acosta *et al.* [CDF II Collaboration]
Phys. Rev. D **68**, 072004 (2003) [arXiv:hep-ex/0310043]
28. **“Measurement of prompt charm meson production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **91**, 241804 (2003) [arXiv:hep-ex/0307080]

27. **“Search for associated production of Υ and vector boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **90**, 221803 (2003)
26. **“Search for lepton flavor violating decays of a heavy neutral particle in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **91**, 171602 (2003) [arXiv:hep-ex/0307012]
25. **“Central pseudorapidity gaps in events with a leading antiproton at the Fermilab Tevatron $p\bar{p}$ collider”**
D. E. Acosta *et al.* [CDF Collaboration and CDFII Collaboration]
Phys. Rev. Lett. **91**, 011802 (2003) [arXiv:hep-ex/0303011]
24. **“Cross section for forward J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **66**, 092001 (2002)
23. **“Search for long-lived charged massive particles in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **90**, 131801 (2003) [arXiv:hep-ex/0211064]
22. **“Search for a W' boson decaying to a top and bottom quark pair in 1.8 TeV $p\bar{p}$ collisions”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **90**, 081802 (2003) [arXiv:hep-ex/0209030]
21. **“Search for radiative b-hadron decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration and CDF Collaboration]
Phys. Rev. D **66**, 112002 (2002) [arXiv:hep-ex/0208035]
20. **“Momentum distribution of charged particles in jets in dijet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV and comparisons to perturbative QCD predictions”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **68**, 012003 (2003)
19. **“Measurement of the ratio of b quark production cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV and $\sqrt{s} = 1800$ GeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **66**, 032002 (2002) [arXiv:hep-ex/0206019]
18. **“Branching ratio measurements of exclusive B^+ decays to charmonium with the Collider Detector at Fermilab”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **66**, 052005 (2002)
17. **“Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **89**, 281801 (2002) [arXiv:hep-ex/0205057]

16. **“Measurement of B meson lifetimes using fully reconstructed B decays produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 092009 (2002)
15. **“Search for new physics in photon lepton events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **89**, 041802 (2002) [arXiv:hep-ex/0202044]
14. **“Upsilon production and polarization in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. Lett. **88**, 161802 (2002)
13. **“Comparison of the isolated direct photon cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV and $\sqrt{s} = 0.63$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 112003 (2002) [arXiv:hep-ex/0201004]
12. **“Soft and hard interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ -GeV and 630-GeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 072005 (2002)
11. **“Measurement of the B^+ total cross section and B^+ differential cross section $d\sigma/dp_T$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 052005 (2002) [arXiv:hep-ph/0111359]
10. **“Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 091102 (2002) [arXiv:hep-ex/0110067]
9. **“Search for the decay $B_s \rightarrow \mu^+ \mu^- \phi$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 111101 (2002)
8. **“Charged jet evolution and the underlying event in $p\bar{p}$ collisions at 1.8 TeV”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 092002 (2002)
7. **“Search for new physics in photon lepton events in proton antiproton collisions at $\sqrt{s} = 1.8$ -TeV”**
D. E. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **66**, 012004 (2002) [arXiv:hep-ex/0110015]
6. **“Diffractive dijet production at $\sqrt{s} = 630$ GeV and 1800 GeV at the Fermilab Tevatron”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. Lett. **88**, 151802 (2002) [arXiv:hep-ex/0109025]
5. **“Study of the heavy flavor content of jets produced in association with W bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
D. Acosta *et al.* [CDF Collaboration]
Phys. Rev. D **65**, 052007 (2002) [arXiv:hep-ex/0109012]

4. **“Measurement of the strong coupling constant from inclusive jet production at the Tevatron $p\bar{p}$ collider”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. Lett. **88**, 042001 (2002) [arXiv:hep-ex/0108034]
3. **“A study of $B^0 \rightarrow J/\psi K^{(*)0} \pi^+ \pi^-$ decays with the Collider Detector at Fermilab”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. Lett. **88**, 071801 (2002) [arXiv:hep-ex/0108022]
2. **“Search for new heavy particles in the WZ^0 final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{TeV}$ ”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. Lett. **88**, 071806 (2002) [arXiv:hep-ex/0108004]
1. **“Search for quark lepton compositeness and a heavy W' boson using the $e\nu$ channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
A. A. Affolder *et al.* [CDF Collaboration]
Phys. Rev. Lett. **87**, 231803 (2001) [arXiv:hep-ex/0107008]

21. "Good Run List", C. Rott and H. Wong, IceCube Internal Report 201109002
20. "YAG Laser Operations Manual", C. Rott, IceCube Internal Report 200612002
19. "Timing Stability String 21 in 2005", C. Rott, IceCube Internal Report 200607001
18. "Search for the Standard Model Higgs boson in the $ZH \rightarrow \nu\nu b\bar{b}$ channel", V. Veszpremi, D. Bortoletto, A. Garfinkel, O. Gonzalez, and C. Rott, CDF Note 7719
17. "Update on the Search for Scalar Bottom Quarks from Gluino Decays", C. Rott, D. Bortoletto, O. Gonzalez, A. Munar, and H.H. Williams, CDF Note 7579
16. "Search for Scalar Bottom Quarks from Gluino Decays in Proton-Antiproton Collisions at 1.96TeV", C. Rott, CDF Note 7526
15. "Studies of the missing ET triggers in the high-luminosity regime", V. Veszpremi, O. Gonzalez, C. Rott, and S.M. Wang, CDF Note 7476
14. "Clean up of the missing transverse energy datasets", D. Acosta, A. Kovalev, S. Lammel, T. Munar, C. Rott, D. Tsybychev, and S.M. Wang, CDF Note 7410
13. "Searches for the Supersymmetric Partner of the Bottom Quark", C. Rott, CDF Note 7217
12. "Search for Sbottom Quarks from Gluino Decays", C. Rott, D. Bortoletto, O. Gonzalez, A. Munar, H.H. Williams, CDF Public Note 7136
11. "Uncertainties due to the PDFs for the gluino-sbottom search", O. Gonzalez and C. Rott, CDF Note 7051
10. "Update on Run-II Searches for Scalar Bottom Quarks from Gluino Decays", C. Rott, D. Bortoletto, O. Gonzalez, A. Munar, and H.H. Williams, CDF Note 7025
9. "Search for Top and Bottom Squarks", C. Rott, CDF Note 6667
8. "Run-II Search for Scalar Bottom Quarks from Gluino Decays", C. Rott, D. Bortoletto, T. Munar, and H.H. Williams, CDF Note 6542
7. "Primary Vertex Algorithm Comparison for High Pt Physics", C. Rott and D. Bortoletto, CDF Note 6472
6. "Run 2 MET35 Trigger Efficiency", A. Munar and C. Rott, CDF Note 6460
5. "SecVtx Optimization for the 2003 Winter Conferences", C. Rott, H. Bachacou, K. Hoffman, A. Dominguez, W. Yao, D. Glenzinski, D. Bortoletto, and M. Shochet, CDF Note 6242
4. "Generator Level Study of Heavy Flavor Jets", C. Rott, H. Bachacou, D. Bortoletto, R. Culbertson, and W. Yao, CDF Note 6007
3. "Radiation Effects in CDF Power Supplies", R.J. Tesarek, C. Rivetta, R. Napora, and C. Rott, CDF Note 5903
2. "Beam Test Results of the US-CMS Forward Pixel Detector", C. Rott, CMS IN-2001/049 - TRACKING
1. "Sensitivity Studies with the 8T. Super FoFo", C. Rott, FNAL MuCool-Note 0040

REFERENCES

Not posted on the web, please contact me if needed.