

# Jodi A. Cooley

## Curriculum Vitae

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### Education

- 1998-2003     The University of Wisconsin-Madison, College of Letters and Science, Madison, WI.  
Ph.D. Thesis title: "Searching for Neutrinos from Diffuse Astronomical Sources with the AMANDA -II Detector", December 2003.
- 1992-1997     The University of Wisconsin-Milwaukee, College of Letters and Science, Milwaukee, WI.  
B.S., Applied Mathematics and Physics, August 1997.

### Professional Appointments

- 2014-present     Associate Professor of Physics at Southern Methodist University, Department of Physics, TX.  
• PI on SuperCDMS in the Soudan Underground Laboratory, Soudan, MN,  
• PI on SuperCDMS in SNOLAB, Sudbury, Canada
- 2009-2014     Assistant Professor of Physics at Southern Methodist University, Department of Physics, TX.  
• PI on SuperCDMS in the Soudan Underground Laboratory, Soudan, MN,  
• PI in the Assays and Acquisition of Radio-pure Materials (AARM) Collaboration  
• PI on SuperCDMS in SNOLAB, Sudbury, Canada  
• PI on CDMS II in the Soudan Underground Laboratory, Soudan, MN
- 2004-2009     Postdoctoral Scholar, Stanford University, Department of Physics, CA.  
• Cryogenic Dark Matter Search (CDMS II), Soudan Underground Laboratory, Soudan, MN.
- 2003-2004     Postdoctoral Associate, Massachusetts Institute of Technology, Laboratory for Nuclear Science  
• Super-Kamiokande, K2K, and T2K experiments, Japan.
- 1999-2003     Graduate Research Assistant, University of Wisconsin-Madison, Department of Physics  
• AMANDA, South Pole Station, Antarctica

## Awards

- 2016 Gerald J. Ford Research Fellowship, Southern Methodist University.  
- Awarded based on the significance of a faculty member's scholarly contributions and future research plans.
- 2015 Rotunda Outstanding Professor Award, Southern Methodist University.  
- Awarded to faculty whose commitment to teaching excellence is reflected in their classroom instruction and interactions with students.
- 2014 The Texas Section of the American Physics Society's Robert S. Hyer Award  
- Awarded to a student/research advisor pair for research excellence.
- 2012 National Science Foundation Faculty Early Career Development (CAREER) Award, National Science Foundation  
- The NSF's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.
- American Physical Society Committee on Status of Women in Physics Women Physicist of the Month, December.  
- Awardees nominated by their students for having a substantial impact on their life or career. (<http://www.aps.org/programs/women/scholarships/womanmonth/2012.cfm>)
- Honoring Our Professor's Excellence (HOPE) Award, Southern Methodist University.  
- Awardees have had significant impact on student lives both inside and outside the classroom. Selected by SMU Student Resident Assistants and SMU Honor Students
- 2011 Ralph E. Powe Jr. Faculty Enhancement Award, Oak Ridge Associated Universities.  
- Competitive award provides seed money for research conducted by junior faculty members at ORAU associated universities.

## Grants

- 2016
- Department of Energy (subaward from SLAC).
- 2015
- Hamilton Undergraduate Research Scholar Award, SMU.
  - Engaged Learning Grant, SMU.
- 2014
- Hamilton Undergraduate Research Scholar Award, SMU.
  - Engaged Learning Grant, SMU.
- 2013
- Hamilton Undergraduate Research Scholar Award, SMU.

2012

- National Science Foundation Career Award (Award Number : 1151869, \$1,010,538, period 2012 – 2017) to work towards second generation dark matter experiments.
- National Science Foundation (Award Number: 1242640, \$58,119, period 2012-2014) to develop integrative tools for underground science.
- Hamilton Undergraduate Research Scholar Award, SMU.

2011

- Oak Ridge Associated Universities Ralph E. Powe Jr. Faculty Enhancement Award (period 2011-2012).
- Hamilton Undergraduate Research Scholar Award, SMU.

## Recent Research Experience

- SuperCDMS (Super Cryogenic Dark Matter Search) Activities
  - Level 2 Deputy Manager for Background Characterization and Material Screening.
  - Lead current SMU effort to analyze current SuperCDMS data searching for WIMPs with mass greater than  $10 \text{ GeV}/c^2$ .
  - Led SMU effort to study surface event rejection capabilities of the new SuperCDMS iZIP detectors. To demonstrate the surface rejection capabilities, two  $^{210}\text{Pb}$  sources which produce background particles were installed with the detectors. The SMU group studied the alpha particles and the  $^{206}\text{Pb}$  recoiling nuclei produced by the decay of this source. These results have been published in PRL.
  - Developed a program to characterize radioactivity in detectors and experiment components, and for selecting materials that will meet specifications to construct the next phase of our experiment, SuperCDMS at SNOLAB.
  - Responsible for analysis that indicated the majority of background particles in the CDMS experiment resulted from radon exposure of the detectors during fabrication.
  - Initiated the SMU effort to study the irreducible radiogenic neutron particles rates as part of an effort to design the shielding required for the next generation SuperCDMS experiment. We are performing simulations of multiple configurations to optimize the final design.
  - Direct activities involving the XIA alpha particle counter located in the LUMINA laboratory at SMU. We use this counter to study the backgrounds of materials which have been exposed to radon and techniques to remove radio-impurities from material surfaces.
- AARM (Assays and Acquisition of Radiopure Materials) Activities
  - Initiated a new international collaboration which developed and launched radiopurity.org, a database of material assays used by the world-wide community of researchers who require radio-pure materials in the construction of their experiments.
- CDMS II (Cryogenic Dark Matter Search) Activities
  - Elected Analysis Coordinator from 2008-2009. During that period, I led the analysis effort that resulted in the observation of 2 dark matter candidate events, achieved the world's best sensitivity for WIMPs with mass greater than  $44 \text{ GeV}/c^2$  and has restricted parameter space for some favored supersymmetric models of particle physics. This analysis was published in the journal Science, has received over 550 citations and was widely noted by the media. I also led analyses that resulted in publications on the following topics: results from an axion search using CDMS II and results from the analysis of the low energy recoil spectrum of CDMS II.
  - Appointed Moderator of the DAQ, Data Quality and Computing working group from 2010-2012. During that time I lead data quality and directed data processing efforts for the analysis of the first data taken with the completed CDMS II experiment. Heavily involved in the data analysis effort which resulted in zero dark matter candidate events and achieved the world's best limit on the WIMP-nucleon cross-section at time of publication.

- Analyzed alphas particles as tool for estimating beta backgrounds from 210Pb contamination and developed estimates of beta backgrounds based on data.
- Developed and maintain various components of the data acquisition system.

## **Recent Appointments and Elected Positions**

- 2016 – present Chair, Texas Section of the American Physical Society  
2016 – present Elected, SuperCDMS Collaboration Executive Committee  
2014 – present Level 2 Deputy Manager for Background Control and Calibration System for the SuperCDMS SNOLAB project.  
2015 – present Elected Chair, Conferences and Presentation Committee  
2015 Vice Chair, Texas Section of the American Physical Society  
2011 – 2015 Elected Co-Chair, Documentations and Policies Committee, SuperCDMS collaboration.  
2014 Appointed member of G2 Backgrounds and Screening Working Group, Joint working group between SuperCDMS/LZ Collaborations  
2012 – 2014 Co-Leader, Materials and Screening Working Group, SuperCDMS collaboration.  
2010 – 2012 Moderator, Screening working group, SuperCDMS collaboration.  
2008 – 2009 Analysis Coordinator, CDMS collaboration.

## **Conference and Workshop Organization**

- 2016
- Scientific Organizing Committee, 28th Recontres de Blois, Blois, France
  - International Organizing Committee, Interplay of Particle and Astroparticle Physics
- 2015
- Scientific Organizing Committee, 27th Recontres de Blois, Blois, France
  - Local Organizing Committee, Deep-Inelastic Scattering Conference, Dallas, Texas
- 2014
- Program Committee, APS Texas 2014 Fall Meeting, College Station, Texas
  - International Organizing Committee, Interplay of Particle and Astroparticle Physics, London, England
  - Scientific Organizing Committee, 26th Recontres de Blois, Blois, France
- 2013
- Scientific Organizing Committee, Big Questions in Particle Astrophysics and Cosmology, Stanford University
  - Chair of Organizing Committee, Closing in on Dark Matter - Aspen, Colorado
- 2012
- Convenor of Cosmology and Astrophysics session, International Conference on High Energy Physics (ICHEP), Melbourne, Australia

## **Other Activities**

### Grants

- Panelist NSF Grant Reviews
- Panelist DOE Grant Reviews
- Reviewer NSF Grants
- Reviewer DOE Grants

- Reviewer CFI Grants
- Reviewer Research Corporation for Science Advancement Grants

#### Journals

- Reviewer Astroparticle Physics Journal (Astropart. Phys.)
- Reviewer European Physical Journal C
- Reviewer Nuclear Instruments and Methods in Physics (NIM A)
- Reviewer Journal of Physics G: Nuclear and Particle Physics

#### 2016

- Discussion Leader - Closeout of the Sub-eV Dark Matter Workshop, LBNL, USA (Invited).
- Speaker, Wallace Herbert Memorial Astronomy Lecture, Louisiana Tech University, Ruston, LA (Invited).
- Speaker, Clare Luce Boothe Lecture, University of Dallas, TX (Invited).

#### 2015

- Opponent, Ph.D. Defense of Henric Taavolas, Uppsala Univeritet, Uppsala, Sweden. (Invited)

#### 2014

- Lecturer for the 2014 Gran Sasso Summer Institute, Laboratori Nazionali del Gran Sasso, Italy. (Invited)

#### 2013

- Contributor to the APS Division of Particles and Fields long term planing exercise, SNOWMASS 2013
- Lecturer for the Fermilab Academic Lecture Series, December 2013, Fermilab, Batavia, IL. (Invited)
- Lecturer for the 2013 Invisibles Summer School, Durham, England. (Invited)

#### 2012

- Speaker, Colloquium Marcos Moshinsky, Universidad de Guanajuato, Mexico. (Invited)

#### 2011

- Opponent, Ph.D. Defense of Olle Engdegard, Uppsala Univeritet, Uppsala, Sweden 2011. (Invited)

### Recent Conference Talks

2015 “Light Dark Matter at SuperCDMS”. Presented at Beyond WIMPS: From Theory to Detection, Israel (May 2015). Invited Talk.

“[radiopurity.org](http://radiopurity.org): A Community Assays Database”. Presented at Low Radioactivity Techniques, Seattle, WA. (March, 2015). Invited Talk.

2014 “Recent Result from SuperCDMS for Low Mass WIMPs”. Presented at the workshop entitled Latest Results in Dark Matter (May 2014), Stockholm, Sweden. Invited talk.

“A Brief Overview of Direct Searches for Dark matter”. Presented at the Progress in New and Old Themes in cosmology (April 2014), Avignon, France. Invited review talk.

2013 “Dark Matter: An Experimentalist’s Perspective”. Presented at the Ohio Section American Physical Society Meeting (October 2013). Invited talk.

“Other WIMP Dark Matter Direct Detection Experiments”. Presented at the 13th International Conference on Topics in Astroparticle and Underground Physics (TAUP 2013), Asilomar, CA. (September 2013). Invited Review Talk.

“Direct Searches for Dark Matter”. Presented at XXV Rencontres de Blois, Blois, France. (May 2013). Invited Review Talk.

“Background Considerations for SuperCDMS”. Presented at Low Radioactivity Techniques, Gran Sasso, Italy. (April 2013)

2012 “Results from CDMS II and Status of SuperCDMS”. Presented at “The LHC, Particle Physics and the Cosmos”, Auckland, New Zealand. (July 2012)

“Overview of Direct Detection Dark Matter Experiments”. Presented at the VIII International Workshop on the Dark Side of the Universe, Buzios, Brazil. (June 2012). Invited Review Talk

2011 “Constraints on Low Mass WIMPs from the CDMS II Experiment”. Presented at the XXIII Rencontres de Blois, Blois, France.

2010 “Recent Results from the CDMS II Experiment and Status and Prospects for SuperCDMS”. Presented at the 2010 International Symposium on Particles, Strings and Cosmology, Valencia, Spain (invited talk).

“The XIA Alpha Particle Counter”. Presented at Low Radioactivity Techniques, Sudbury, Canada (invited talk).

## **Teaching Experience**

2009 – present Southern Methodist University, Department of Physics, Dallas, TX  
Principles of Astrophysics and Cosmology (Fall 2009, Spring 2014)  
Introductory Astronomy (Substitute Lecturer, Fall 2012)  
Introduction to Mechanics (Fall 2010, Spring 2011, Fall 2011)  
Modern Physics (Spring 2015, Fall 2015, Spring 2014, Fall 2013,  
Fall 2012, Spring 2012)

## **University Service Work**

2014 – Present Elected Member of the Dedman College Undergraduate Council, SMU  
2009 – Present Member Undergraduate Physics Committee, SMU  
2009 – Present Scholarship Committee Physics Department, SMU  
2014 – 2017 Director of the Undergraduate Physics Program, SMU  
2014 – 2016 Member of the President’s Commission on the Status of Women, SMU  
2014 – 2016 Faculty Affiliate for Morrison McGinnis Residential Commons, SMU  
2015 Member of the Provost Search Committee, SMU  
2012 – 2013, 2015-2015  
Spring Commencement Faculty Marshal, SMU  
2010 – 2012, 2015-2016  
Undergraduate Physics Major Advisor, SMU  
2009 – 2010 Physics Department Seminar Organizer, SMU  
2009 – 2010 Physics Department Radiation Officer, SMU

## Graduate Student Thesis Advisees and Postdoctoral Mentoring Activities

2010 – present Hang Qiu, SMU, graduate student  
2013 – present Daniel Jardin, SMU, graduate student  
2015 – present Matt Stein, SMU graduate student  
2013 – present Robert Calkins, SMU Postdoctoral Scholar

2010 – 2013 Silvia Scorza, SMU Postdoctoral Scholar (Currently at SNOLAB in Canada)  
2010 – 2014 Bedile Karabuga, SMU graduate student, MS

## Graduate Student Thesis Committees

2015 Henric Taavola, Uppsala Univeritet, Uppsala, Sweden (invited, opponent)  
2012 Kamile Dindar-Yagci, SMU Physics  
2011 Olle Engdegard, Uppsala Univeritet, Uppsala, Sweden (invited, opponent)  
2011 Andrea Adams, SMU Chemistry (external member)

## Recent Invited Colloquia and Seminars

2017	Seminar	Michigan State University
2015	Colloquium Seminar	University of Massachusetts, Amherst Uppsala Univeritet
2014	Colloquium Seminar Colloquium Colloquium Seminar Seminar	UT Dallas Tel Aviv University, Israel Georgia Tech Georgia State University LAL, Orsay, France Karlsruhe Institute of Technology, Germany
2013	Seminar Physics Department Colloquium	CERN, Geneva Switzerland University of Kentucky
2012	Physics Department Colloquium Physics Institute Seminar Colloquium Marcos Moshinsky	UT Arlington Universidad de Guanajuato Universidad de Guanajuato

## Recent Outreach and Synergistic Activities

2017 APS Viewpoint, <https://physics.aps.org/articles/v10/3>  
2016 Wallace Herbert Memorial Astronomy Lecture, Louisiana Tech, LA  
Clare Luce Boothe Lecture, University of Dallas, TX  
Living Physicists Project, W.H. Adamson High School, Dallas ISD  
Dallas Region Science Fair, Grand Prize Judge

- 2015 Sciencecast, Perot Museum of Science, Dallas, TX  
Keynote Speaker, Texas Astronomical Society of Dallas (July meeting)  
Mentor, Girl Scouts of North Texas, STEM College Journey  
Living Physicists Project, W.H. Adamson High School, Dallas ISD  
Speaker, Women in Science Alliance, University of Texas - Dallas  
Science Friday Interview (March 27, 2015)  
- <http://www.sciencefriday.com/segment/03/27/2015/understanding-the-dark-side-of-physics.html>  
Keynote Speaker, SMU Physics Symposium  
Dallas Regional Science Fair, Grand Prize Judge
- 2014 Dallas Regional Science Fair, Grand Prize Judge
- 2013 Interview for Odyssey Magazine (children's science magazine)  
Town and Gown Lecture, Southern Methodist University  
Keynote Speaker, Dallas Regional Science Fair Awards Banquet  
Dallas Regional Science Fair, Grand Prize Judge
- 2012 Keynote Speaker, Honors Convocation, Southern Methodist University  
Dallas Regional Science Fair, Grand Prize Judge
- 2011 QuarkNet, talk, SMU (June, 2011)
- 2010 Collegium da Vinci, SMU (November, 2010)  
ABC – WFAA Interview (November, 2010)  
- <http://www.wfaa.com/news/technology/Minnesota-mine-could-yield-secrets-of-the-universe-to-SMU-professor-110539874.html>



## Refereed Publications

### Dark Matter Related:

1. PROJECTED SENSITIVITY OF THE SUPERCDMS EXPERIMENT. Submitted to PRD. e-Print arXiv:1610.00006.
2. A DATABASE FOR STORING THE RESULTS OF RADIO-PURITY MEASUREMENTS. Nucl.Instrum.Meth. A839 (2016) 6-11. e-Print arXiv: 1604.06169.
3. NEW RESULTS FROM THE SEARCH FOR LOW-MASS WEAKLY INTERACTING MASSIVE PARTICLES WITH CDMS LOW IONIZATION THRESHOLD EXPERIMENT. PRL 116, 071301 (2016). e-Print arXiv: 1509.02448.
4. IMPROVED WIMP-SEARCH REACH OF THE CDMS II GERMANIUM DATA. PRD 92, 072003 (2015). e-Print arXiv: 1504.05871
5. DARK MATTER EFFECTIVE FIELD THEORY SCATTERING IN DIRECT DETECTION EXPERIMENTS. Phys. Rev. D 91, 092004 (2015). e-Print arXiv: 1503.03379
6. OVERVIEW OF NON-LIQUID NOBLE DIRECT DETECTION DARK MATTER EXPERIMENTS. Phys. Dark Univ. vol. 4, pp 92-97, (2014). e-Print arXiv: 1410.4960.
7. MAXIMUM LIKELIHOOD ANALYSIS OF LOW ENERGY CDMS II GERMANIUM DATA. PRD 91, 052021 (2015). e-Print arXiv:1410.1003
8. FIRST DIRECT LIMITS ON LIGHTLY IONIZING PARTICLES WITH ELECTRIC CHARGE LESS THAN  $e/6$ . PRL 114, 111302 (2015). e-Print arXiv:1409.3270
9. SEARCH FOR LOW-MASS WIMPS WITH SUPERCDMS. Phys. Rev. Lett. 112, 241302 (2014). e-Print arXiv:1402.7137
10. CDMSLITE: A SEARCH FOR LOW-MASS WIMPS USING VOLTAGE-ASSISTED CALORIMETRIC IONIZATION DETECTION IN THE SUPERCDMS EXPERIMENT. Phys. Rev. Lett. 112, 041302 (2014). e-Print arXiv:1309.3259
11. DEMONSTRATION OF SURFACE ELECTRON REJECTION WITH INTERLEAVED GERMANIUM DETECTORS FOR DARK MATTER SEARCH. Appl. Phys. Lett. 103, 164105 (2013). arXiv:1305.2405.
12. DARK MATTER SEARCH RESULTS USING THE SILICON DETECTORS OF CDMS II. Phys. Rev. Lett. 111, 251301 (2013). e-Print: arXiv:1304.4279.
13. SILICON DETECTOR RESULTS FROM THE FIRST FIVE-TOWER RUN OF CDMS II. Phys. Rev. D. 88, 031104(R), 2013. e-Print: arXiv:1304:3706
14. COMBINED LIMITS ON WIMPS FROM THE CDMS AND EDELWEISS EXPERIMENTS. Phys. Rev. D 84:011102, 2011. e-Print: arXiv:1105.3377
15. SEARCH FOR INELASTIC DARK MATTER WITH THE CDMS II EXPERIMENT. Phys. Rev. D 83:112002, 2011. e-Print arXiv:1012.5078.
16. RESULTS FROM A LOW-ENERGY ANALYSIS OF THE CDMS II GERMANIUM DATA. Phys. Rev. Lett. 106:131302, 2011 e-Print arXiv:1011.2482.
17. THE CDMS II DATA ACQUISITION SYSTEM. NIM A: 638 (2011) p.127
18. LOW-THRESHOLD ANALYSIS OF CDMS SHALLOW-SITE DATA. Phys.Rev.D82:122004,2010. e-Print arXiv:1010.4290
19. DARK MATTER SEARCH RESULTS FROM THE CDMS II EXPERIMENT. Science 327:1619-1621, 2010.
20. ANALYSIS OF THE LOW-ENERGY ELECTRON RECOIL SPECTRUM OF THE CDMS EXPERIMENT. Phys.Rev.D 81:042002,2010 e-Print Archive: 0907.1438.
21. SEARCH FOR AXIONS WITH THE CDMS II EXPERIMENT. Phys. Rev. Lett. 103:141802, 2009 e-Print Archive: 0902.4693.
22. A SEARCH FOR WIMPS WITH THE FIRST FIVE-TOWER DATA FROM CDMS. Phys. Rev. Lett. 102:011301, 2009. e-Print Archive: 0802.3530.
23. LIMITS ON SPIN-DEPENDENT WIMP-NUCLEON INTERACTIONS FROM THE CRYOGENIC DARK MATTER SEARCH. Sep 2005. 4pp. Phys. Rev. D 73:011102, 2006. e-Print Archive: astro-ph/0509269.

24. LIMITS ON SPIN-INDEPENDENT WIMP-NUCLEON INTERACTIONS FROM THE TWO-TOWER RUN OF THE CRYOGENIC DARK MATTER SEARCH. Sep 2005. 4pp. Phys. Rev. Lett. 96:011302, 2006. e-Print Archive: astro-ph/0509259.
25. QUASIPARTICLE PROPAGATION IN ALUMINUM FINS AND TUNGSTEN TES DYNAMICS IN THE CDMS ZIP DETECTOR. Nucl. Instrum. Meth. A 559:405-407, 2006.
26. FIRST TEST RUNS OF A DARK-MATTER DETECTOR WITH INTERLEAVED IONIZATION ELECTRODES AND PHONON SENSORS FOR SURFACE-EVENT REJECTION. Nucl. Instrum. Meth. A 559:414-416, 2006.
27. THE SUPERCDMS PROPOSAL FOR DARK MATTER DETECTION. Nucl. Instrum. Meth. A 559:411-413, 2006.
28. CHARACTERIZATION, PERFORMANCE, AND FUTURE ADVANCED ANALYSIS OF DETECTORS IN THE CRYOGENIC DARK MATTER SEARCH (CDMS-II). Nucl. Instrum. Meth. A 559:387-389, 2006.
29. LIMITS ON WIMP-NUCLEON INTERACTIONS FROM THE CRYOGENIC DARK MATTER SEARCH AT THE SOUDAN UNDERGROUND LABORATORY. Nucl. Instrum. Meth. A 559:390-392, 2006.

**Other:**

1. SOURCES OF VARIABILITY IN ALPHA EMISSIVITY MEASUREMENTS AT LA AND ULA LEVELS, A MULTICENTER STUDY. NIM A 750:96-102, 2014. e-print Archive: 1401.1845.

**Super-Kamiokande Related:**

1. SEARCH FOR DIFFUSE ASTROPHYSICAL NEUTRINO FLUX USING ULTRAHIGH ENERGY UPWARD-GOING MUONS IN SUPER-KAMIOKANDE I. Astrophys. J. 652:206-215, 2006. e-Print Archive: astro-ph/0606126.
2. THREE FLAVOR NEUTRINO OSCILLATION ANALYSIS OF ATMOSPHERIC NEUTRINOS IN SUPER-KAMIOKANDE. Apr 2006. 13pp. Published in Phys. Rev. D 74:032002, 2006. e-Print Archive: hep-ex/0604011.
3. SOLAR NEUTRINO MEASUREMENTS IN SUPER-KAMIOKANDE-I. Aug 2005. 32pp. Phys. Rev. D 73:112001, 2006 e-Print Archive: hep-ex/0508053.

**AMANDA/ IceCube Related:**

1. LIMITS TO THE MUON FLUX FROM NEUTRALINO ANNIHILATIONS IN THE SUN WITH THE AMANDA DETECTOR. Aug 2005. 13pp. Astropart. Phys. 24:459-466, 2006. e-Print Archive: astro-ph/0508518.
2. FLUX LIMITS ON ULTRA HIGH ENERGY NEUTRINOS WITH AMANDA-B10. 2005. 15pp. Astropart. Phys. 22:339-353, 2005.
3. SEARCH FOR EXTRATERRESTRIAL POINT SOURCES OF HIGH ENERGY NEUTRINOS WITH AMANDA-II USING DATA COLLECTED IN 2000-2002. Dec 2004. 5pp. Phys. Rev. D 71:077102, 2005. e-Print Archive: astro-ph/0412347.
4. CALIBRATION AND SURVEY OF AMANDA WITH THE SPASE DETECTORS. 2004. 13pp. Nucl. Instrum. Meth. A 522:347-359, 2004.
5. MUON TRACK RECONSTRUCTION AND DATA SELECTION TECHNIQUES IN AMANDA. Sep 2003. 40pp. Nucl. Instrum. Meth. A 524:169-194, 2004. e-Print Archive: astro-ph/0407044.
6. SEARCH FOR EXTRATERRESTRIAL POINT SOURCES OF NEUTRINOS WITH AMANDA-II. Phys. Rev. Letters 92:071102, 2004. e-Print Archive: astro-ph/0309585.
7. SENSITIVITY OF THE ICECUBE DETECTOR TO ASTROPHYSICAL SOURCES OF HIGH ENERGY MUON NEUTRINOS. Astropart. Phys. Vol. 20 pp. 507-532, 2003. e-Print Archive: astro-ph/0305196.

8. LIMITS ON DIFFUSE FLUXES OF HIGH ENERGY EXTRATERRESTRIAL NEUTRINOS WITH THE AMANDA-B10 DETECTOR. *Phys. Rev. Letters* 90:251101, 2003. e-Print Archive: astro-ph/0303218.
9. SEARCH FOR POINT SOURCES OF HIGH ENERGY NEUTRINOS WITH AMANDA. *Astrophys. J.* 583:1040-1057, 2003. e-Print Archive: astro-ph/0208006.
10. SEARCH FOR NEUTRINO-INDUCED CASCADES WITH THE AMANDA DETECTOR. *Phys. Rev. D* 67:012003, 2003. e-Print Archive: astro-ph/0206487.
11. OBSERVATION OF HIGH-ENERGY ATMOSPHERIC NEUTRINOS WITH THE ANTARCTIC MUON AND NEUTRINO DETECTOR ARRAY. *Phys. Rev. D* 66:012005, 2002. e-Print Archive: astro-ph/0205109.
12. LIMITS TO THE MUON FLUX FROM WIMP ANNIHILATION IN THE CENTER OF THE EARTH WITH THE AMANDA DETECTOR. *Phys. Rev. D* 66:032006, 2002. e-Print Archive: astro-ph/0202370.
13. SEARCH FOR SUPERNOVA NEUTRINO BURSTS WITH THE AMANDA DETECTOR. *Astropart. Phys.* 16:345-359, 2002. e-Print Archive: astro-ph/0105460.
14. RECENT RESULTS FROM AMANDA. *Int. J. Mod. Phys. A* 16S1C:1013-1015, 2001.
15. OBSERVATION OF HIGH-ENERGY NEUTRINOS USING CERENKOV DETECTORS EMBEDDED DEEP IN ANTARCTIC ICE. *Nature* 410:441-443, 2001.