

John E. Jacobsen

Curriculum Vitae

Contact Information:

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Overview:

With over two decades of experience in high energy physics and particle astrophysics, I am a software engineer specializing in experimental physics and other high-performance computing environments. My recent work for the IceCube Neutrino Observatory at the South Pole includes several critical components of the detector's data acquisition system and an innovative, end-to-end implementation of the experiment control system, in production since early 2009. I also play a key role in troubleshooting and maintaining that detector during calibration and normal operations (>99% uptime).

It is a passion of mine to address difficult computing problems in science, problems which may engage multiple challenges in terms of computability, complexity, scalability, and usability. I am particularly interested in using modern, high-level programming languages (such as Python, Clojure, and other functional languages), to create simple, beautiful, usable and powerful systems for the collection, analysis and visualization of data on the frontiers of science.

Education:

December, 1996: Ph. D., Department of Physics, University of Wisconsin – Madison.

1993–1996: Graduate Student, Department of Physics, and Department of Art, University of Wisconsin – Madison.

1991–1993: Department of Art, University of Wisconsin – Madison.

1990: B.S., Physics, University of Wisconsin – Madison. Graduated with distinction, class rank 17 out of 3073.

Positions Held:

- 2004–present: President, NPX Designs, Inc.
Current and recent clients include:
The University of Wisconsin, Madison (IceCube Project);
The University of Maryland, Dept. of Physics;
The Pennsylvania State University, Dept. of Physics;
E. O. Lawrence Berkeley National Laboratory, Berkeley, CA;
Pragma Securities, Inc., New York, NY
- 2002–2004: Sole Proprietor, John Jacobsen IT Services, Chicago, IL
- 1998–2002: Computer Systems Engineer, E. O. Lawrence Berkeley National Laboratory, Berkeley, CA
- 1997–1998: Postdoctoral Research Associate, Department of Physics, University of Wisconsin, Madison, Wisconsin
- 1997–present: Visiting Scholar, Department of Physics, University of California, Berkeley, California
- 1998–present: Postdoctoral Guest Researcher, E. O. Lawrence Berkeley National Laboratory, Berkeley, California
- 1994–1996: Graduate Research Assistant, Department of Physics, University of Wisconsin, Madison, Wisconsin
- 1993–1994: United States Department of Education Fellow, Department of Physics, University of Wisconsin, Madison, Wisconsin
- 1991–1993: Undergraduate Physics Research Assistant, Department of Physics, University of Wisconsin, Madison, Wisconsin
- 1990–1991: Physics Research Assistant, CERN, Geneva, Switzerland
- 1987–1990: Undergraduate Physics Research Assistant, Department of Physics, University of Wisconsin, Madison, Wisconsin

Recent Conferences:

- 2012: **Clojure/conj**, Raleigh, NC
- 2012: **Clojure/West**, San Jose, CA
- 2010: **O'Reilly Open Source Conference**, Portland, OR
- 2008: **O'Reilly Open Source Conference**, Portland, OR
- 2008: **PyCon**, Chicago, IL

Selected Awards and Honors:

- 1994: Emanuele A. Piori Award (highest score on graduate qualifying exam).
University of Wisconsin – Madison Department of Physics.
- 1993-1994: U. S. Department of Education Graduate Fellowship. University of Wisconsin – Madison Department of Physics.
- 1990: Albert Radtke Scholarship (outstanding undergraduate physics major).
University of Wisconsin – Madison Department of Physics.

Ph.D. Thesis:

Simulating the Detection of Muons and Neutrinos in Deep Antarctic Ice. The University of Wisconsin – Madison (1996). URL: <http://johnj.com/thesis>

Publications in Refereed Journals:¹

1. Search for Excited Neutrinos in Z Decays (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B250** 172-182 (1990).
2. Measurement of Electroweak Parameters from Z Decays into Fermion Pairs (with ALEPH Collaboration, D. Decamp et. al.), Z. Phys. **C48** 365-392 (1990).
3. Using Neural Networks with Jet Shapes to Identify b jets in e^+e^- Interactions (with L. Bellantoni, J. Conway, Y. Pan and S. L. Wu), Nucl. Instrum. Meth. **A310** 618-622 (1991).
4. Measurement of the Strong Coupling Constant α_S from Global Event Shape Variables of Hadronic Z Decays (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B255** 623-633 (1991).
5. Measurement of $B - \bar{B}$ Mixing at the Z (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B258** 236-246 (1991).
6. Measurement of the B Hadron Lifetime (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B257** 492-504 (1991).
7. Measurement of Charge Asymmetry in Hadronic Z Decays (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B259** 377-388 (1991).
8. Search for a New Weakly Interacting Particle (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B262** 139-147 (1991).
9. Charged Particle Pair Production Associated with a Lepton Pair in Z Decays: Indication of an Excess in the Tau Channel (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B263** 112-122 (1991).
10. Measurement of the Forward-Backward Asymmetry in $Z \rightarrow b\bar{b}$ and $Z \rightarrow c\bar{c}$ (with ALEPH Collaboration, D. Decamp et. al.), Phys. Lett. **B263** 325-336 (1991).

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11. Measurement of the Charged Particle Multiplicity Distribution in Hadronic Z Decays (with ALEPH Collaboration, D. Decamp *et. al.*), Phys. Lett. **B273** 181-192 (1991).
12. Measurement of the Polarization of τ Leptons Produced in Z Decays (with ALEPH Collaboration, D. Decamp *et. al.*), Phys. Lett. **B265** 430-444 (1991).
13. Measurement of Isolated Photon Production in Hadronic Z Decays (with ALEPH Collaboration, D. Decamp *et. al.*), Phys. Lett. **B264** 476-486 (1991).
14. Measurement of the Absolute Luminosity with the ALEPH Detector (with ALEPH Collaboration, D. Decamp *et. al.*), Z. Phys. **C53** 375-390 (1992).
15. Searches for New Particles in Z Decays Using the ALEPH Detector (with ALEPH Collaboration, D. Decamp *et. al.*), Phys. Rept. **273** 253-340 (1992).
16. Improved Measurements of Electroweak Parameters from Z Decays Into Fermion Pairs (with ALEPH Collaboration, D. Decamp *et. al.*), Z. Phys. **C53** 1-20 (1992).
17. An Investigation Into Intermittency (with ALEPH Collaboration, D. Decamp *et. al.*), Z. Phys. **C53** 21-32 (1992).
18. Possibility that High-Energy Neutrino Telescopes Could Detect Supernovae (with F. Halzen and E. Zas), Phys. Rev. **D49**, n4, p. 1758 (1994).
19. First Data and Future Prospects for AMANDA, the Antarctic Muon and Neutrino Detector Array (with P. Askebjør *et. al.*), Antarctic Journal **24** 337 (1994).
20. Optical Properties of the South Pole Ice at Depths Between 0.8 and 1 Kilometer (with P. Askebjør *et. al.*), Science, Vol. 267, p. 1147 (1995).
21. On the Age vs. Depth and Optical Clarity of Deep Ice at South Pole (with AMANDA collaboration, P. Askebjør *et. al.*), Journal of Glaciology, Vol. 41, No. 139 (1995).
22. Ultratransparent Ice as a Supernova Detector (with F. Halzen and E. Zas), Phys. Rev. **D53**, n12, p. 7359 (1996).
23. UV and Optical Light Transmission Properties in Deep Ice at the South Pole. The AMANDA collaboration (P. Askebjør *et al.*), Geophysical Research Letters **24**, 11, 1355 (1997).
24. Optical Properties of Deep Ice at the South Pole - Absorption. The AMANDA collaboration (P. Askebjør *et al.*), Applied Optics **36**, 18, 4168 (1997).
25. The AMANDA Neutrino Telescope: Principle of Operation and First Results (the AMANDA Collaboration, E. Andres *et al.*), DESY-99-073 (Jun 1999). 36pp. Astropart. Phys. **13** 1-20 (2000). e-Print Archive: astro-ph/9906203.
26. Observation of High-Energy Neutrinos Using Cerenkov Detectors Embedded Deep in Antarctic Ice. The AMANDA Collaboration (E. Andres, *et al.*), Nature **410** 441-443 (2001).

27. Search for Point Sources of High Energy Neutrinos with AMANDA (the AMANDA Collaboration, J. Ahrens et al.) (Aug 2002). 46pp. Submitted to *Astrophys. J.* (2002). e-Print Archive: astro-ph/0208006.
28. Observation Of High-Energy Atmospheric Neutrinos With The Antarctic Muon And Neutrino Detector Array. The AMANDA Collaboration (J. Ahrens et al.) (May 2002). 21pp. *Phys. Rev.* **D66** 012005 (2002). e-Print Archive: astro-ph/0205109.
29. Limits To The Muon Flux From Wimp Annihilation In The Center Of The Earth With The AMANDA Detector (by the AMANDA Collaboration, J. Ahrens et al.) (Feb 2002). 13pp. *Phys. Rev.* **D66** 032006 (2002). e-Print Archive: astro-ph/0202370.
30. Search For Supernova Neutrino Bursts With The AMANDA Detector (the AMANDA Collaboration, J. Ahrens et al.) (May 2001). 20pp. *Astropart. Phys.* **16** 345-359 (2002). e-Print Archive: astro-ph/0105460.
31. Results from AMANDA (by the AMANDA Collaboration, C. Wiebusch et al.). 19pp. *Modern Physics Letters A* **17**, 31 2019-2037 (2002).
32. Search For Neutrino-Induced Cascades With the AMANDA Detector (the AMANDA Collaboration, J. Ahrens et al.). *Physical Review* **D67** 012003 (2003).
33. Limits on Diffuse Fluxes of High-energy Extraterrestrial Neutrinos with the AMANDA-B10 Detector (J. Ahrens et al.). *Phys. Rev. Lett.* **90** 251101 (2003).
34. Sensitivity of the IceCube Detector to Astrophysical Sources of High Energy Muon Neutrinos (with the IceCube Collaboration, J. Ahrens et al.). *Astropart. Phys.* **20** 507-532 (2004).
35. Muon Track Reconstruction and Data Selection Techniques in AMANDA (with the AMANDA Collaboration, J. Ahrens et al.). *Nucl. Instrum. Meth.* **A524** 169-194 (2004).
36. Search for Extraterrestrial Point Sources of Neutrinos with AMANDA-II (with the AMANDA Collaboration, J. Ahrens et al.). *Phys. Rev. Lett.* **92** 071102 (2004).
37. Measurement of the Cosmic Ray Composition at the Knee with the SPASE-2/AMANDA-B10 Detectors (with the AMANDA and SPASE Collaborations, J. Ahrens et al.). *Astropart. Phys.* **21** 565-581 (2004).
38. Calibration and Survey of AMANDA with the SPASE Detectors (with the SPASE and AMANDA Collaborations, J. Ahrens et al.). *Nucl. Instrum. Meth.* **A522** 347-359 (2004).
39. Search for Neutrino-induced Cascades with AMANDA (with the AMANDA Collaboration, M. Ackermann et al.). *Astropart. Phys.* **22** 127-138 (2004).
40. Search for Extraterrestrial Point Sources of High Energy Neutrinos with AMANDA-II Using Data Collected in 2000-2002 (with the AMANDA Collaboration, M. Ackermann et al.). *Phys. Rev.* **D71** 077102 (2005).

41. Neutrino Astronomy and Cosmic Rays at the South Pole: Latest Results from AMANDA and Perspectives for IceCube (with the AMANDA and IceCube Collaborations, P. Desiati et al.). Prepared for 19th European Cosmic Ray Symposium (ECRS 2004), Florence, Italy (30 Aug - 3 Sep 2004). *Int. J. Mod. Phys.* **A20** 6919-6923 (2005).
42. New Results from the AMANDA Neutrino Telescope (with the AMANDA Collaboration, M. Ackermann et al.). *Nucl. Phys. Proc. Suppl.* **145** 319-322 (2005). Also in Conca Specchiulla 2004, Neutrino oscillation 319-322.
43. Flux Limits on Ultra High Energy Neutrinos with AMANDA-B10 (M. Ackermann et al.). *Astropart. Phys.* **22** 339-353 (2005).
44. Limits on the Muon Flux from Neutralino Annihilations at the Center of the Earth with AMANDA (with the AMANDA collaboration, A. Achterberg et al.). *Astropart. Phys.* **26** 129-139 (2006).
45. The ICECUBE Prototype String in AMANDA (with the AMANDA collaboration, M. Ackermann et al.). *Nucl. Instrum. Meth.* **A556** 169-181 (2006).
46. First Year Performance of The IceCube Neutrino Telescope (with the IceCube collaboration, A. Achterberg et al.). *Astropart. Phys.* **26** 155-173 (2006).
47. 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 (with the IceCube collaboration, A. Achterberg et al.). *Phys. Rev. Lett.* **97** 221101 (2006).
48. On the Selection of AGN Neutrino Source Candidates for a Source Stacking Analysis with Neutrino Telescopes (with the IceCube collaboration, A. Achterberg et al.). *Astropart. Phys.* **26** 282-300 (2006).
49. Astroparticle physics with high energy neutrinos: from AMANDA to IceCube (F. Halzen et al.). *The European Physical Journal C - Particles and Fields* (2006). 21pp. 10.1140/epjc/s2006-02536-4.
50. Five Years of Searches for Point Sources of Astrophysical Neutrinos with the AMANDA-II Neutrino Telescope (with the IceCube collaboration, A. Achterberg et al.). *Phys. Rev.* **D75** 102001 (2007).
51. Detection of Atmospheric Muon Neutrinos with the IceCube 9-String Detector (with the IceCube Collaboration, A. Achterberg et al.), *Phys. Rev.* **D76** 027901 (2007).
52. Multiyear Search for a Diffuse Flux of Muon Neutrinos with AMANDA-II (with the IceCube Collaboration, A. Achterberg et al.), *Phys. Rev.* **D76** 042008 (2007).
53. Search for Ultra-High Energy Neutrinos with AMANDA-II (with the IceCube Collaboration, M. Ackermann et al.), preprint arXiv:0711.3022, to appear in *Astrophys. J* (2007).
54. The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray Bursts with AMANDA (with the IceCube Collaboration, M. Ackermann et al.), preprint arXiv:0705.1186, to appear in *Astrophys. J* (2007).

55. Search for Neutrino-Induced Cascades from Gamma-Ray Bursts with AMANDA (with the IceCube Collaboration, A. Achterberg et al.), *Astrophys.J.* **664**, 397 (2007).
56. Five Years of Searches for Point Sources of Astrophysical Neutrinos with the AMANDA-II Neutrino Telescope (with the IceCube Collaboration, A. Achterberg et al.), *Phys.Rev.* **D75** 102001 (2007).
57. Search for ultra high-energy neutrinos with AMANDA-II (M. Ackermann et al.), *Astrophysical Journal*, **675**, 1014 (2008).
58. The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray bursts with AMANDA (A. Achterberg et al.), *Astrophysical Journal*, **674**, 357 (2008).
59. Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector, R. Abbassi et al., *Phys. Rev. Lett.* **102**, 201302 (2009).
60. "Determination of the atmospheric neutrino flux and searches for new physics with AMANDA- II", R. abbassi et al., *Phys. Rev.* **D79**, 102005 (2009).
61. Solar Energetic Particle Spectrum on 13 December 2006 Determined by IceTop, R. Abassi et al., *Astrophysical J. Lett.* **689**, L65 (2008).
62. Search for Point Sources of High Energy Neutrinos with Final Data from AMANDA-II, R. Abassi et al., *Phys. Rev.* **D79**, 062001 (2009).
63. Search for High-Energy Muon Neutrinos from the 'Naked-Eye' GRB 080319B with the IceCube Neutrino Telescope, R. Abassi et al., *Astrophysical Journal* **701** (2009) 1721-1731, **DOI:** 10.1088/0004-637X/701/2/1721.
64. First Neutrino Point-Source Results From the 22-String IceCube Detector, R. Abassi et al., preprint arXiv:0905.2253.
65. Measurement of sound speed vs. depth in South Pole ice: pressure and shear waves, R. Abassi et al., submitted to *Journal of Geophysical Research*.
66. "Extending the Search for Neutrino Point Sources with IceCube above the Horizon," R. Abbasi et al (IceCube Collaboration), *Phys. Rev. Lett.* **103**, 221102 (2009) DOI:10.1103 arXiv:0911.2338 [astro-ph.HE].
67. The IceCube Data Acquisition System: Signal Capture, Digitization, and Timestamping. R. Abbassi et al., LBNL-1668E, *Nuclear Instruments and Methods* **A601**, 294 (2009).

Selected Presentations:

“Searching for Neutrinos using Open Source at the Bottom of the World” (with K. Beattie and D. Glowacki), at the O’Reilly Open Source Conference, Portland, Oregon, July 25, 2008

(<http://en.oreilly.com/oscon2008/public/schedule/detail/2614>).

“Data Analysis and Simulation Software for the AMANDA Experiment.” IceCube Workshop, University of California – Irvine, 27 March, 1998.

“The AMANDA Experiment at South Pole.” Yerkes Observatory, Williams Bay, Wisconsin, 10 June 1996.

“Particle Physics on Ice: The Antarctic Muon and Neutrino Detector Array.” University of Pennsylvania, Rutgers University, Princeton University, 21-23 May 1996.

“A New High-Energy Window on the Heavens... AMANDA.” Cornell University, 18 June 1993.

“Using Neural Networks for b -Jet Identification.” ALEPH Collaboration, CERN, Geneva, Switzerland, 23 Oct. 1990.

Preprints and Publications in Conference Proceedings:²

1. VHE Gamma Ray Studies at the Haleakala Gamma Ray Observatory (with L. Resvanis *et. al.*), Nucl. Phys. B, Proc. Suppl. 14A, pp. 205-210 (1989).
2. Searches for the Standard Higgs Boson Produced in the Reaction $e^+e^- \rightarrow H^0 Z^*$ (with ALEPH Collaboration, D. Decamp *et. al.*), Contribution to the Aspen, La Thuile and Moriond Conferences (Winter 1991).
3. Transparency of Antarctic Ice: First Results (with AMANDA collaboration, S. Barwick *et. al.*), *The Workshop on Astrophysics of High Energy Neutrinos*, Honolulu, Hawaii (1992).
4. Antarctic Muon and Neutrino Detector Array (with AMANDA collaboration, S. Barwick *et. al.*), *Proceedings of the 2nd UCLA International Conference on Gamma Ray and Neutrino Cosmology*, Los Angeles, California (1992).
5. AMANDA: South Pole Neutrino Detector (with AMANDA collaboration, S. Barwick *et. al.*), *Proceedings of the XXVIth International Conference on High Energy Physics (ICHEP 92)*, Dallas, Texas (1992).
6. AMANDA: Design of a 1 Kilometer Deep High Energy Neutrino Telescope (with AMANDA collaboration, S. Tilav *et. al.*), *Proceedings of the XXIIIrd International Cosmic Ray Conference*, Calgary, Canada (1993).
7. Surface/Under Ice Muon Coincidences at the South Pole (with S. Tilav *et. al.*), *Proceedings of the XXIIIrd International Cosmic Ray Conference*, Calgary, Canada (1993).

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8. AMANDA: Measurement of South Pole Ice Transparency at 800 Meter Depth (with AMANDA collaboration, T. Miller *et. al.*), *Proceedings of the XXIIIrd International Cosmic Ray Conference*, Calgary, Canada (1993).
9. Hardware Design and Prototype Tests of the AMANDA Neutrino Detector (with AMANDA collaboration, D. Lowder *et. al.*), *Proceedings of the XXIIIrd International Cosmic Ray Conference*, Calgary, Canada (1993).
10. Ultra High Energy Neutrino Astrophysics with AMANDA (with AMANDA Collaboration, P. B. Price *et. al.*), *Proceedings of the International Conference on Non-Accelerator Particle Physics*, Bangalore, India (1994).
11. The Indirect Detection of Halo Dark Matter (with F. Halzen). *Proceedings of the International Conference on Critique of the Sources of Dark Matter in the Universe*, UCLA, Los Angeles, California (1994).
12. Antarctic Muon and Neutrino Detector: First Data and Outlook (with John Lynch and the AMANDA Collaboration), *Proceedings of the Rrobotic Telescopes Conference, Astronomical Society of the Pacific*, Flagstaff, Arizona (1994).
13. AMANDA: Status Report from the 1993-94 Campaign and Optical Properties of the South Pole Ice (with AMANDA Collaboration, P. Askebjør *et. al.*), To appear in the *Proceedings of the XVI International Conference on Neutrino Physics and Astrophysics*, Eilat, Israel (1994).
14. The Detection of Cold Dark Matter with Neutrino Telescopes (with F. Halzen), University of Wisconsin Preprint MAD-PH-838. *Proceedings of the 16th Annual Montreal-Rochester-Syracuse-Toronto Meeting on High Energy Physics: What Next? Exploring the Future of High Energy Physics*, Montreal, Canada (1994).
15. Initial Analysis of Coincident Events Between the SPASE and AMANDA Detectors (with T. Miller *et. al.*), *Nuclear Physics B, Proc. Supp.* **43**, 245 (1995).
16. Ultra-transparent Antarctic Ice as a Supernova Detector (with F. Halzen and E. Zas), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995).
17. A System to Search for Supernova Bursts with the AMANDA Detector (with AMANDA collaboration, R. Wischniewski *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 658.
18. Status and Capabilities of AMANDA-94 (with AMANDA collaboration, P. Mock *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 758.
19. Measurements of the Absorption Length of the Ice at the South Pole in the Wavelength Interval 410 nm to 610 nm (with AMANDA collaboration, B. Erlandsson *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 1039.
20. The Design of a Neutrino Telescope using Natural Deep Ice as a Particle Detector (with AMANDA collaboration, L. Gray *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy, 1995), Vol. 1, p. 816.

21. Indirect Evidence for Long Absorption Lengths in Antarctic Ice (with AMANDA collaboration, S. Tilav *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 1011.
22. Optical Properties of South Pole Ice for Neutrino Astrophysics (with AMANDA collaboration, P. B. Price *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 777.
23. SPASE-AMANDA Coincidences at the South Pole (with T. Miller *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 2, p. 768.
24. Remote Surveys of AMANDA (with R. Porrata *et. al.*), *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 1009.
25. Using Extra-clear Antarctic Ice as a Supernova Detector (with F. Halzen and E. Zas). *Proceedings of the XXIVth International Cosmic Ray Conference*, Rome, Italy (1995), Vol. 1, p. 1027.
26. 1995-96 Results for the AMANDA Neutrino Observatory, (with the AMANDA Collaboration, P. B. Price *et. al.*), *Proceedings of the 7th International Workshop on Neutrino Telescopes*, p.383, Venice, Italy (1996).
27. 1995-1996 Results for the AMANDA Neutrino Observatory (with P. Askebjør *et. al.*), *Proceedings of the International Workshop on Future Prospects of Baryon Instability Search*, Oak Ridge National Laboratory (1996), Yu. Kamyshkov, ed.
28. The AMANDA Experiment (with the AMANDA Collaboration, P. O. Hulth *et. al.*), *Proceedings of the 17th International Conference on Neutrino Physics and Astrophysics (Neutrino 96)*, p.518, Helsinki, Finland (1996).
29. Status of the AMANDA South Pole Neutrino Detector (with the AMANDA collaboration, F. Halzen *et. al.*), *Proceedings of the International Workshop on Aspects of Dark Matter in Astrophysics and Particle Physics*, Heidelberg, Germany (1996).
30. 1995-96 Results for the AMANDA Neutrino Observatory (with the AMANDA Collaboration, P. B. Price *et. al.*), *Proceedings of the 7th International Workshop on Neutrino Telescopes*, p.383, Venice, Italy (1996).
31. Latest Results from AMANDA (with the AMANDA collaboration, P.B. Price *et. al.*), in *Proc. XXXIInd Rencontres de Moriond ("Very High Energy Phenomena in the Universe")*, Les Arcs, France (1997).
32. The Status of the AMANDA High-Energy Neutrino Detector (with the AMANDA collaboration, S.W. Barwick *et. al.*), *Proceedings of the 25th International Cosmic Ray Conference*, Durban, South Africa, Vol. 7, 1 (1997).
33. THE AMANDA EXPERIMENT: status and prospects for indirect Dark Matter detection (with the AMANDA Collaboration, L. Bergström *et. al.*), *Proceedings of the International Workshop on the Identification of Dark Matter (IDM 96)*, Sheffield, England, 1996, Edited by N.J.C. Spooner, p.521 (1997).

34. First Look at AMANDA-B Data (with the AMANDA collaboration, S. Tilav *et. al.*), *Proceedings of the 25th International Cosmic Ray Conference*, Durban, South Africa, Vol. 7, 5 (1997).
35. Analysis of Cascades in AMANDA-A, (with the AMANDA collaboration, R. Porrata *et. al.*), *Proceedings of the 25th International Cosmic Ray Conference*, Durban, South Africa, Vol. 7, 9 (1997).
36. Muon Reconstruction with AMANDA-B, (with the AMANDA collaboration, C.H. Wiebusch *et. al.*), *Proceedings of the 25th International Cosmic Ray Conference*, Durban, South Africa, Vol. 7, 13 (1997).
37. Analysis of SPASE-AMANDA Coincidence Events (with the SPASE and AMANDA collaborations, T.C. Miller *et. al.*), *Proceedings of the 25th International Cosmic Ray Conference*, Durban, South Africa, Vol. 5, 237 (1997).
38. Status of the AMANDA and BAIKAL Neutrino Telescopes (with the AMANDA and BAIKAL Collaborations, P. Askebjerg *et. al.*), *Proc. 9th Intern. Symp. on Very High Energy Cosmic Ray Interactions*, Karlsruhe, Germany, 1996, Edited by H. Rebel *et. al.*, Nucl. Phys. B Suppl. 52B:256 (1997).
39. The AMANDA Neutrino Telescope And The Indirect Search For Dark Matter (with the AMANDA Collaboration, F. Halzen *et al.*). MADPH-98-1050 (Apr 1998). 16pp. Talk given at 3rd International Symposium on Sources and Detection of Dark Matter in the Universe (DM 98), Santa Monica, CA (18-20 Feb 1998). Published in Phys. Rept. **307** 243-252 (1998). e-Print Archive: hep-ex/9804007.
40. An Overview Of Offline Software For AMANDA (with the AMANDA Collaboration, J. Jacobsen *et al.*). 1998. Prepared for International Workshop on Simulations and Analysis Methods for Large Neutrino Telescopes, Zeuthen, Germany (6-9 Jul 1998). In Zeuthen 1998, Simulation and Analysis Methods for Large Neutrino Telescopes 194-204.
41. Initial Results From The AMANDA High-Energy Neutrino Detector (with the AMANDA Collaboration, S. W. Barwick *et al.*). 1998. Prepared for 29th International Conference on High-Energy Physics (ICHEP 98), Vancouver, British Columbia, Canada (23-29 Jul 1998). In Vancouver 1998, High Energy Physics, Vol. 2 1447-1452.
42. The AMANDA Neutrino Telescope (with the AMANDA Collaboration, Francis Halzen *et al.*). MADPH-98-1078 (Sep 1998). 12pp. Talk given at 18th International Conference on Neutrino Physics and Astrophysics (NEUTRINO 98), Takayama, Japan (4-9 Jun 1998). Published in Nucl. Phys. Proc. Suppl. **77** 474-485 (1999). Also in Buxton 1998, The Identification of Dark Matter 501-507 e-Print Archive: hep-ex/9809025.
43. Up and Downgoing Muons in the AMANDA B4 Prototype Detector (with the AMANDA Collaboration, S. Hundertmark *et al.*), *Proceedings of the XXVIth International Cosmic Ray Conference*, Salt Lake City, Utah (1999).
44. Digital Optical Module & System Design for a Km Scale Neutrino Detector in Ice (with the AMANDA Collaboration, D.M. Lowder *et al.*), *Proceedings of the XXVIth International Cosmic Ray Conference*, Salt Lake City, Utah (1999).

45. AMANDA Search for High Energy Neutrinos Accompanying Gamma Ray Bursts (with the AMANDA Collaboration, Ryan Bay et al.), Proceedings of the XXVIth International Cosmic Ray Conference, Salt Lake City, Utah (1999).
46. From the First Neutrino Telescope, the Antarctic Muon and Neutrino Detector Array AMANDA, to the IceCube Observatory (with the AMANDA Collaboration, F. Halzen et al.), Proceedings of the XXVIth International Cosmic Ray Conference, Salt Lake City, Utah (1999).
47. Optical Properties of South Pole Ice at Depths from 140 to 2300 Meters (with the AMANDA Collaboration, Kurt Woschnagg et al.), Proceedings of the XXVIth International Cosmic Ray Conference, Salt Lake City, Utah (1999).
48. Search for Relativistic Monopoles with the AMANDA Detector (with the AMANDA Collaboration, Peter Niessen et al.), Proceedings of the XXVIth International Cosmic Ray Conference, Salt Lake City, Utah (1999).
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³To File