ALBRECHT KARLE

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CURRICULUM VITAE

I. Personal Data

Citizenship:	German
Place of Birth:	Schwäbisch-Hall, Germany
Office Work Address:	4215 Chamberlin Hall, 1150 University Avenue, University of Wisconsin-Madison, WI 53706
Home Address:	138 Dunning Street, Madison, WI 53704

II. Education

1994	Ph.D., University of Munich, Munich, Germany
1990	Diplom in Physik, University of Munich, Munich, Germany
1983	Baccalaureate in Philosophy, *Hochschule für Philosophie,* Munich, Germany
1979	Abitur, Hohenlohe Gymnasium-Öhringen

III. Employment

2005 - present	Professor of Physics, University of Wisconsin-Madison
2006 - present	IceCube Associate Director, Science and Instrumentation
2003 - 2005	Associate Professor, University of Wisconsin-Madison
1999 - 2003	Assistant Professor, University of Wisconsin-Madison
1997 - 1999	Assistant Scientist, University of Wisconsin-Madison
1995 – 1997	Postdoctoral Researcher, DESY-Zeuthen
1991 – 1994	Research Assistant, Max-Planck Institute for Physics, Munich

IV. Grants and Research Responsibilities

IceCube, Associate Director, Science and Instrumentation (2005 to present)

IceCube Collaboration,
- Executive Committee (2005 – present)
- Point source working group coordinator (2005 – present)

Project IceCube,
Level 2 Manager, Instrumentation (Technical and Budget, 2003-2005)
Level 3 Manager: Optical sensors and strings (2001-2004
IceCube, Phase II Funding: Construction (F. Halzen, Principal Investigator), awarded by the National Science Foundation (NSF)
IceCube, Phase I Funding (2002)

AMANDA Grant, Co-Principal Investigator, Awarded by NSF (2000-2005)
Assistant Professor Start-Up Funding, 2 Graduate Students and 1 Post-doc

V. Training and Supervision

i) Ph.D. students graduated (Advisor)

- Katherine Rawlins, Measuring the Composition of Cosmic Rays with the SPASE and AMANDA Detectors (2001), *Current position: Fellow, Massachusetts Institute of Technology*
- Jodi Cooley, Search for Diffuse High Energy Neutrino Fluxes (2003), *Current position: Post-doc, Stanford University*
- You-Ren Wang, Search for High Energy Point Sources with AMANDA-II (2005)
- Brennan Hughey, Search for Untriggered Bursts of High Energy Neutrino Radiation (2007)

ii) Ph.D. students current (Advisor)

- John Kelley, Determination of the Atmospheric Neutrino Flux with AMANDA-II and Limits on Violation of Lorentz Invariance and Quantum Decoherence (Dec., 2008)
- James Braun, Search for point sources of high energy neutrinos with 7 years of AMANDA-II (Dec. 2008)
- Erik Strahler, Search for high energy neutrinos from GRBs with IceCube 22 (spring 2009)
- Sean Grullon, New event reconstruction methods in IceCube and search for a diffuse astrophysical neutrino flux. (summer 2009)
- Karen Andeen, Mass composition of cosmic rays using AMANDA-II and the surface air shower array SPASE-II
- Chris Weaver, (Thesis goal) Electron and neutral current induced neutrino event reconstruction and flux measurement

iii) Post-doctoral researchers and scientists

- Hagar Landsman, Post-doc (2004 to present)
- Kotoyo Hoshina, Post-doc (2005 to present)
- David Boersma, Post-doc (2005 to present)
- Chihwa Song, Post-doc (2003-2006)
- Gary Hill, Assistant Scientist (1999 to present)
- Paolo Desiati, Assistant Scientist (2000 to present)
- Christopher Wendt, Assistant Scientist (2002 to present)

VI . National Committees

- URA Visiting Committee to Fermilab, 2005 to present, Assess overall Fermilab Research Program
- South Pole Users Committee, 2000 to present, Advisory committee to the National Science Foundation (NSF) and Raytheon Polar Programs, the NSF contractor for Polar Operations

VII. Teaching Experience

- 1999 - 2000 Classical Mechanics (Physics 311)
- 2000 - 2001 Classical Mechanics,
  Intermediate Physics Lab (Physics 307)
- 2001 - 2002 Introductory Physics II (E&M, Modern, Physics 208)
- 2002 - 2003 Special topics: Astroparticle Physics (Graduate course)
- 2003 - 2004 Introductory Physics II (E&M, Modern) (Physics 208, 202)
- 2004 - 2005 Introductory Physics II (E&M, Modern) (Physics 202)
- 2005 - 2006 Introductory Physics II (E&M, Modern) (Physics 202)
- 2006 - 2007 Introductory Physics II (E&M, Modern) (Physics 202)
- 2007 - 2008 Introductory Physics II (E&M, Modern, no calculus, Physics 104)