Prof. Michael A. Kordosky

Professional Preparation

Education

St. John's University, MN	Physics and Mathematics	B.S. 1998
University of Texas at Austin	Physics	Ph.D. 2004

Postdoctoral Research

University College London, U.K.	Experimental High Energy Physics	2004-2007

Appointments

Jan 08–present	Assistant Professor, Physics Dept., Coll. of William & Mary, VA
Jan–June 11	Visiting Assistant Professor, Physics Dept., Univ. Rochester, NY
Aug 04–Jan 08	Postdoctoral Research Fellow, Univ. Coll. London, U.K.

Related Publications

- P. Adamson *et al.* [MINOS Collaboration], "An improved measurement of muon antineutrino disappearance in MINOS," Phys. Rev. Lett. **108**, 191801 (2012)
- P. Adamson *et al.* [MINOS Collaboration], "Improved search for muon-neutrino to electron-neutrino oscillations in MINOS," Phys. Rev. Lett. **107**, 181802 (2011)
- P. Adamson *et al.* [MINOS Collaboration], "Active to sterile neutrino mixing limits from neutral-current interactions in MINOS," Phys. Rev. Lett. **107**, 011802 (2011)
- P. Adamson *et al.* [MINOS Collaboration], "Neutrino and Antineutrino Inclusive Charged-current Cross Section Measurements with the MINOS Near Detector," Phys. Rev. **D81**, 072002 (2010).
- P. Adamson *et al.* "The Minos Calibration Detector," Nucl. Instrum. Meth. A **556**, 119 (2006). *(MINOS testbeam paper)*

Other Publications

- P. Adamson *et al.* [MINOS Collaboration], "First direct observation of muon antineutrino disappearance," Phys. Rev. Lett. **107**, 021801 (2011).
- P. Adamson *et al.* [The MINOS Collaboration], "Measurement of the neutrino mass splitting and flavor mixing by MINOS," Phys. Rev. Lett. **106**, 181801 (2011).
- A. Cabrera *et al.* [MINOS Collaboration], "Comparisons of the MINOS Near and Far Detector Readout Systems at a Test Beam," Nucl. Instrum. Meth. A **609**, 106 (2009) *(MINOS testbeam paper)*
- P. Adamson *et al.* [MINOS Collaboration], "A Study of Muon Neutrino Disappearance Using the Fermilab Main Injector Neutrino Beam," Phys. Rev. D **77**, 072002 (2008)
- D. G. Michael *et al.* [MINOS Collaboration] "Observation of Muon Neutrino Disappearance with the MINOS Detectors in the NuMI Neutrino Beam", Phys. Rev. Lett. **97**, 191801 (2006)

Synergistic Activities

- Research organizations: Councilor for the Oak Ridge Associated Universities consortium. I am the primary point of contact between ORAU and W&M and cast the W&M vote within the ORAU council; Fermilab co-representative on the National User Facilities Organization visit to Capitol Hill (2011, 2012).

- Local outreach: Judge for the Virginia Junior Academy of Sciences (VJAS). VJAS hosts an annual conference giving 750 7–12th grade students the chance to report their scientific research, have it judged for originality and merit, and interact with scientists from a wide variety of fields; "Phases of matter" demonstration revised and conducted (Fall 2011) for 360 middle-school children, in cooperation with three other W&M faculty; With J. Nelson and P. Vahle, organized after school "science club" (spring 2012) for second and third grade students at James River elementary, Williamsburg, VA.

- Undergraduate research: SiPM based TOF counters (M. Loftus, summer 2012); neutrino interactions (M. Jiang, summer 2011); gaseous electron multiplier detector development (M. Coleman, summer 2010); dark matter searches at NuMI (C. Lorentz, REU 2010;) remote experimental control (D. Brooker, summer 2010).

- Conference organization: International organizing committee and working group co-convener for the "12th,13th,14th International Workshop on Neutrino Factories, Super Beams and Beta Beams" (NuFact2010,11,12); Local organizing committee for NuFact 2012 (hosts: W&M and JLab); International Organizing Committee for the "International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region" (NuInt) conference series.

- Experimental leadership roles: first MINERvA analysis coordinator, July 1, 2009 – June 2, 2012; Co-coordinator of the MINOS "disappearance" working group, Oct 2010 – present; MINERvA tracking prototype commissioning coordinator Jan 2008- June 2009; MINOS near detector physics co-coordinator 2006-2010; All involve charting the course of physics analysis or detector commissioning, coordinating physicists, mentoring graduate students and post-doctoral researchers, and communicating results to the wider scientific and lay community.

Collaborators and Co-editors

Author lists for high energy physics collaborations often number over 200 researchers and are much too long for a two-page biographical sketch, therefore web links are provided: (a) MINOS Collaboration (see http://www-numi.fnal.gov/collab/collab.ps), (b) MINERvA Collaboration (see https://neutrino.otterbein.edu/Glaucus/public/list_people.cgi)

Graduate Advisors and Postdoctoral Sponsors

- Graduate Advisor: Karol Lang (Texas)

- Postdoctoral Sponsor: Jennifer Thomas (London)

Thesis Advisor and Postdoctoral-Scholar Sponsor

- Thesis Students: Dun Zhang, Leonidas Aliaga-Soplin (William and Mary), Dr. Mark Dorman (London)

- Postdoctoral Scholars: Joseph Walding (January 2010 – 12)