Curriculum Vitae Karol Lang December, 2012

Business Address

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Education

Doctor of Philosophy, University of Rochester, New York, 1985. Master of Science in Physics, Warsaw University, Poland, 1979.

Employment

2001	Professor of Physics, The University of Texas at Austin
2009 Apr-Jun	Visiting Professor, The University of Warsaw, Poland
2005 Jul-Aug	Visiting Professor, LAL Orsay, Université Paris XI, France
1997 - 2001	Associate Professor of Physics, The University of Texas at Austin
1991 - 1996	Assistant Professor of Physics, The University of Texas at Austin
1988 - 1991	Acting Assistant Professor of Physics, Stanford University
1986 - 1988	Research Associate, Department of Physics, Stanford University
1985 - 1986	Research Associate, Department of Physics, University of Rochester
1981 - 1985	Research Assistant, Department of Physics, University of Rochester
1979 - 1981	Research Physicist, Institute for Nuclear Research, Warsaw, Poland
	and Teaching Assistant, Department of Physics, Warsaw University
1979	Visiting Research Physicist, JINR, Dubna, USSR

Awards

1991	Outstanding Junior Investigator Award,
	High Energy Physics Office, U.S. Department of Energy;
1992	Summer Research Award, University Research Institute,
	The University of Texas at Austin
2000	Faculty Research Assignment, The University of Texas at Austin
2005	Faculty Research Assignment, The University of Texas at Austin

Organizations

American Physical Society; Division of Particles and Fields of APS;

Professional Activities

Reviewer for DOE and NSF high energy physics program Grant Selection Committee of NSERC (Canada) 2006-2008, Chair in 2007-2008 IceCube Project Advisory Panel and Science Advisory Committee

Research Activities

Neutrino Oscillations (FNAL E701, MINOS) Deep Inelastic Neutrino Interactions (FNAL E616, FNAL E701) Rare Kaon Decays (BNL E791, BNL E871) Searches for Axions (SLAC E141) Deep Inelastic Electron Scattering (SLAC E140) Neutrinoless Double Beta Decays (NEMO-3, Super-NEMO) Particle Detectors and Nuclear Medical Imaging Instrumentation

Selected Publications

- Measurement of the neutrino mass splitting and flavor mixing by MINOS, P. Adamson et al. [MINOS Collaboration], Phys. Rev. Lett. 106, 181801 (2011).
- Measurement of the Double Beta Decay Half-life of ¹³⁰Te with the NEMO-3 Detector, R. Arnold et al. [NEMO-3 Collaboration], Phys. Rev. Lett. **107**, 062504 (2011).
- Spectral modeling of scintillator for the NEMO-3 and SuperNEMO detectors, J. Argyriadeset al., [NEMO-3 Collaboration], Nucl. Instrum. Meth. A625, 20-28 (2011).
- New constraints on muon-neutrino to electron-neutrino transitions in MINOS, P. Adamson et al. [MINOS Collaboration], Phys. Rev. D82, 051102 (2010).
- Measurement of the two neutrino double beta decay half-life of Zr-96 with the NEMO-3 detector, J. Argyriades et al. [NEMO-3 Collaboration], Nucl. Phys. A847, 168-179 (2010).
- Measurement of the background in the NEMO 3 double beta decay experiment, J. Argyriades et al. [NEMO Collaboration], Nucl. Instrum. Meth. A606, 449-465 (2009).
- Characterization of 1600 Hamamatsu 16-Anode Photomultipliers for the Minos Far Detector, K. Lang et al., Nucl. Instrum. Meth. A 545, 852 (2005).
- A Straw Drift Chamber Spectrometer for Studies of Rare Kaon Decays, K. Lang et al. [BNL E871 Collaboration], Nucl. Instrum. Meth. A 522, 274 (2004).
- 9. New Limit on Muon and Electron Number Violation from $K_L^0 \to \mu^{\pm} e^{\mp}$ Decay, D. Ambrose et al. [BNL E871 Collaboration], Phys. Rev. Lett. 81:5734-5737,1998.
- 10. First Observation of the Rare Decay Mode $K_L^0 \to e^+e^-$, D. Ambrose et al. [BNL E871 Collaboration], Phys. Rev. Lett. 81:4309-4312,1998.