

Maury Goodman

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Education:

B.S., Physics MIT 1972
MS., Physics The University of Illinois, 1976
Ph.D. in Physics with a minor in Nuclear Engineering, The University of Illinois, 1979

Professional Employment:

Physicist, ANL (1985- present)
Postdoctoral Staff, MIT (1979-1984)
2nd Lt., 1st Lt. Captain, US Army (1972-1973); US Army Reserve (1974-1986)

Awards, Memberships, and Professional Service:

Deputy Spokesman for LBNE collaboration (2010-2012)
Fellow of the American Physical Society (2009)
Society of Sigma Xi (1972)
Co-spokesperson for US Double Chooz Collaboration (2006-2009)
ANL service committee work (POC-HP, planning group, seminars committee,...)
MINOS Service Work (Executive Committee, Chairman of Institutional Board) 1995-2010
NOvA (Chairman of Speakers Committee) 2009-2010
Spokesperson for THESEUS proposal (FNAL P822, neutrinos to Soudan 2) 1992-1996
Chairman of Organizing Committee Long-Baseline Neutrino Workshop, 1991
International Advisory Committee for Neutrino 2002, 2004, 2006, 2008, 2010
International Advisory Committee for Lepton/Photon 2011

Selected Research Accomplishments

Leader of the ANL-HEP neutrino group. 2007-present
Led a MINOS analysis group on cosmic ray muon studies; first rise in charge ratio seen & explained, 2008
Invited summary speaker on neutrino experiments at 2007 Weak Interactions and Neutrinos Workshop
Detected neutrino oscillations using Rock Muons in MINOS, 2007.
Active Participant & Writer for APS neutrino study, 2004.
Observation of Atmospheric Neutrino Oscillations in Soudan 2, 2003.
Search and limit on neutrinos from Active Galactic Nuclei in Soudan 2, 1999.
Supervised 4 Ph.D. students and 5 postdoctoral appointees, 1996-present.
Member of the Particle Data Group since 1996, spearheaded 2006 neutrino revision
Significant contributions to MINOS (FNAL P875) Proposal, 1995
Issues monthly newsletter on neutrinos with a subscription list over 1500 since 1992
Led efforts to create a long-baseline neutrino oscillation program at Fermilab in the 1990s
Initiated Soudan 2 neutrino oscillation analysis, 1988
Led Soudan 2 data analysis for several nucleon decay modes, 1987-1998
Organized use of Fermilab Experiment E594 for Cosmic Ray Studies, 1982-1984
Mentored numerous undergraduate and High School students (Ill. Math/Science Academy) continuous

Selected Publications (Maury Goodman):

- (1) Measurement of Neutrino Oscillations with the MINOS Detectors, Phys. Rev. Lett. 101, 2008.
- (2) Reviews of Particle Properties, Physics Letters, B167, 2008. (Also, 1998, 2000, 2002, 2004 & 2006)
- (3) Search for the proton decay mode neutrino K^+ in Soudan 2, Physics Letters B427, 1998.
- (4) Other Atmospheric Neutrino Experiments, Nucl Physics B (Proc Suppl.) 118, 2003.
- (5) A New Nuclear Reactor Neutrino Experiment to Measure θ_{13} , [arXiv:hep-ex/0402041](https://arxiv.org/abs/hep-ex/0402041).
- (6) Double Chooz, A search for the Neutrino Mixing Angle θ_{13} , arXiv:hep-ex/0606025.
- (7) Horizontal Muons and a search for AGN neutrinos in Soudan 2, Astroparticle Physics 20, 2004.
- (8) Interpretation of the Underground Muon Charge Ratio, Astropart.Phys.32:61-71,2009