

Stuart A. Raby – CURRICULUM VITAE

RESEARCH:

My research in elementary particle physics focuses on physics beyond the Standard Model. In particular, I am one of the original proponents of the supersymmetric extension of the Standard Model. The so-called minimal supersymmetric standard model is now the standard model of particle physics; which means to say it is the theory which is 1) the standard by which all other theories beyond the standard model are compared and 2) will be the first to be tested at the LHC. In addition, I am one of the originators of supersymmetric grand unified theories. At the moment, the unification of the three low energy gauge coupling constants is the first indicator of low energy supersymmetry in nature. I have also worked on obtaining fermion masses and mixing angles in consistent grand unified models and also in string theoretical constructions.

EXPERIENCE:

Present Position: Professor of Physics, The Ohio State University, 191 W. Woodruff Av., Columbus, OH 43210 since October 1989.

Group Leader, Los Alamos National Laboratory, T-8, MS B285, Los Alamos, NM 87545, November 1985 – October 1989.

Staff Member, Los Alamos National Laboratory, T-8, MS B285, March 1982 - October 1985.

Visiting Associate Research Scientist, University of Michigan, Ann Arbor, MI 48109, September 1, 1982 - August 31, 1983.

Temporary Staff Member, Los Alamos National Laboratory, T-8, MS B285, September 1, 1981 - March 1982.

Research Associate, SLAC, September 1980 - September 1981.

Acting Assistant, Professor, Stanford University, September 1978 – September 1980.

Research Associate, Cornell University, September 1976 – 1978.

Summer School, Les Houches, 1976.

Ph.D. Candidate and Instructor, Tel Aviv University, September 1973 – June 1976.
Received Ph.D. in Physics, June 1976; Advisor - Professor L.P. Horwitz

M.Sc. Candidate and Teaching Assistant, Tel Aviv University, September 1970 – September 1973. Received M.Sc. in physics, June 1973; Advisor - Professor D. Horn; Summer School, Ettore Majorana, Erice, 1972.

Undergraduate Education, University of Rochester, September 1965 – June 1969.

National Science Foundation Summer Grant in High Energy Physics, University of Colorado, Boulder, 1968.

Conference and Workshops Organized:

Division of Particles and Fields Meeting of the APS, Columbus, OH, August 2000.

Aspen Center for Physics Summer Workshop, “String Phenomenology,” August 15 - Sept. 12, 2004.

OCTS Workshop, Columbus, OH, “Strings and the Real World,” November 7 - 9, 2005.

PASCOS 2006, Columbus, OH, September 10 - 15, 2006.

International Advisory Committee for String Phenomenology Workshops since 2007.

International Advisory Committee for PASCOS conferences since 2007.

Additional National Service:

Editorial Board, Physical Review D, 2003 - 2005.

Reviewer for Physical Review D, Physical Review Letters, Nuclear Physics B, & Physics Letters B.

NSF review panel, Washington D.C., 2007 - 2009.

DUSEL S4 review panel, Washington D.C., June 2009.

Highly cited papers

1) S. Dimopoulos, S. Raby, Frank Wilczek, “Supersymmetry and the Scale of Unification,” Phys.Rev.D24:1681-1683,1981.

Cited 703 times in the HEP (SPIRES-SLAC) database.

2) Lawrence J. Hall, V.Alan Kostelecky, S. Raby, “New Flavor Violations in Supergravity Models,” Nucl.Phys.B267:415,1986.

Cited 575 times in the HEP (SPIRES-SLAC) database.

3) Savas Dimopoulos, Stuart Raby, “Supercolor,” Nucl.Phys.B192:353,1981.

Cited 437 times in the HEP (SPIRES-SLAC) database.