

Curriculum Vitae for Sally Dawson

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Education

Ph. D in Physics from Harvard University, 1981

B.S. in Physics and Mathematics from Duke University, *Summa Cum Laude*, 1977

Professional Experience

2008-present, Senior Scientist, BNL

2007-2008, Sabbatical leave at SLAC

2005-2007, Chair, Physics Department, BNL

2001-present, Adjunct Professor, Yang Institute for Theoretical Physics, Stony Brook

1998-2004, Group leader, High Energy Theory, BNL

1986-2008, Assistant/Associate/Physicist, BNL

1983-1986, Research Associate, Lawrence Berkeley Laboratory

1981-1983, Research Associate, Fermilab

Committee Membership, Other Professional Activities

2010-present, Member, SLAC PPA Advisory Committee

2008-2010, Member, Sakurai Prize Committee

2006-2010, Member, AAAS Physics B Executive Committee

2007-2008, Chair, Fermilab Program Advisory Board

2007-2008, Member, Fermilab Steering Group

2006-2010, Member, Fermilab Program Advisory Board

2006-2010, Member, Santa Barbara KITP Advisory Board

2006, Chair, LBNL Physics Division Program Review

2002-2006, Chair/Vice Chair/Past Chair, Division of Particles and Fields, APS
2004-2006, Vice Chair, EPP2010 Committee of the National Research Council
2004-2006, Member, International Committee for Future Accelerators
2002-2008, Member, U.S. Linear Collider Steering Committee
2002-2004 Member, HEPAP Subcommittee on Outreach
2002-2004, Member, URA Visiting Committee, Fermilab
1999-2002, Member, High Energy Physics Advisory Panel
1999-2002, APS Divisional Councilor
2001-2002, Nominating Committee, Division of Particles of Beams, APS
2000-2001, Member, LBNL Physics Division Program Review
1999, Member, ANL Physics Division Program Review
1997, Member, HEPAP subpanel on The Future of High Energy Physics
1997-2000, Member, APS Committee on the Status of Women in Physics
1995-2004, Associate Editor, Physical Review D
1994-1996, Member, Executive Committee of the DPF, APS
1991-1993, Member, SSC Program Advisory Committee

Honors and Awards

2006, Fellow of the American Association for the Advancement of Science
1998, APS Centennial Speaker
1995, Fellow of the American Physical Society
1995, Town of Brookhaven, Woman of the Year in Science

Conference Organization and Working Group Leadership, 2005-2010

Member, International Advisory Committee, Lepton Photon Conference 2011, Mumbai, India Aug 22-27, 2011

Member, Organizing Committee, Physics at TeV Colliders 2011, Les Houches, France, May 30-June 17, 2011

Member, Organizing Committee, Muon Colliders 2011, Telluride, CO, June 27-July 1, 2011

LHC2Future Colliders Meeting, working group leader, CERN, Feb, 2009

Convener for Higgs Physics Sessions, DPF2009, Wayne State University

Higgs Physics Working Group Leader and Member, Organizing Committee, Physics at Colliders 2007, Les Houches, France, June 4-27, 2007

Physics Working Group Leader, Fermilab Steering Committee, 2007-2008

International Advisory Board, RadCor Conference, 2005, 2007, 2008, 2011

Member, Organizing Committee, American Linear Collider Physics Conference, 2006, 2007

Conference Organizer, Annual Loopfest meeting (since 2002)

Scientific Program Director, TASI06, University of Colorado, June 4-30, 2006

Member, Organizing Committee, LHC Early Phase for the ILC Workshop, Fermilab, April 12-14, 2007

Member, Organizing Committee, Hadron Collider Physics Conference, 2006, 2007

Co-Chair, Physics Organizing Committee, Linear Collider Workshop, Snowmass, Aug 14-27, 2005

Organizer, BNL/FNAL Study on Long Baseline Neutrinos, 2006-2007

S. Dawson, Most Significant Publications

S. Dawson and C. Jackson, *SUSY QCD Corrections to Associated Higgs Bottom Quark Production*, *Phys. Rev.* **D77** (2008) 015019

S. Dawson and C. Jackson, *Chiral Logarithmic Corrections to the S and T Parameters in Higgsless Models*, *Phys. Rev.* **D76** (2007) 015014

M.C. Chen, S. Dawson, and T. Krupovnickas, *Higgs Triplets and Limits from Precision Measurements*, *Phys. Rev.* **D74** (2006) 035001.

S. Dawson, C. Jackson, L. Reina, and D. Wackerroth, *Exclusive Higgs Boson Production with Bottom Quarks at Hadron Colliders*, *Phys. Rev.* **D69** (2004) 074027

M. C. Chen and S. Dawson, *One Loop Corrections to the ρ parameter in Little Higgs Models*, *Phys. Rev.* **D70** (2004) 015003

S. Dawson, L. Orr, L. Reina, and D. Wackerroth, *Associated Higgs Production with Top Quarks at the Large Hadron Collider: NLO QCD Corrections*, *Phys. Rev.* **D67** (2003) 034022

- S. Dawson, L. Orr, L. Reina, and D. Wackerroth, *Associated Top Quark-Higgs Boson Production at the LHC*, *Phys. Rev.* **D67** (2003) 071503
- S. Dawson, L. Orr, L. Reina, and D. Wackerroth, *Next to Leading Order Results for $t\bar{t}$ Production at the Tevatron*, *Phys. Rev. Lett.* **87** (2001) 201804
- S. Dawson, S. Dittmaier, and M. Spira, *Neutral Higgs Boson Pair Production at Hadron Colliders*, *Phys. Rev.* **D58** (1998) 115012
- S. Dawson, A. Djouadi, and M. Spira, *QCD Corrections to SUSY Higgs Production: The Role of Squark Loops*, *Phys. Rev. Lett.* **77** (1996) 16
- J. Bagger, S. Dawson, and G. Valencia, *Effective Field Theory of Anomalous Gauge Boson Couplings at High Energy pp Colliders*, *Nucl. Phys.* **B399** (1993) 364
- S. Dawson, *Radiative Corrections to Higgs Boson Production*, *Nucl. Phys.* **B359** (1991) 283
- J. Gunion, H. Haber, G. Kane, and S. Dawson, *The Higgs Hunters Guide*, Addison-Wesley (Menlo Park) 1990.
- P. Nason, S. Dawson, and R. Ellis, *The On Particle Differential Cross Section for Heavy Quarks Production in Hadronic Collisions*, *Nucl. Phys.* **B327** (1989) 49e
- P. Nason, S. Dawson, and R. Ellis, *The Total Cross Section for the Production of Heavy Quarks in Hadronic Collisions*, *Nucl. Phys.* **B303** (1988) 607
- S. Dawson, E. Eichten, and C. Quigg, *Search for Supersymmetric Particles in Hadron-Hadron Collisions*, *Phys. Rev.* **D31** (1985) 1582.
- S. Dawson, *R Parity Breaking in Supersymmetric Theories*, *Nucl. Phys.* **B261** (1985) 297
- S. Dawson, *The Effective W Approximation*, *Nucl. Phys.* **B249** (1985) 42
- R. Cahn and S. Dawson, *Production of Very Massive Higgs Bosons*, *Phys. Lett.* **B136** (1984) 196

Teaching

- Physics 612, (Graduate Level Collider Physics) at Stony Brook, Spring 2011, 2009, 2003
- Freshman Physics Seminar Course, (The Quantum Universe) at Stony Brook, Spring, 2007
- Special Topics Course (The MSSM) at Stony Brook, 2001