

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

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

Selected Professional Activities

2017, Chair, Committee of Visitors for DOE HEP Office

2001-2016, Loopfest Conference Organizing Committee

2014-present, Convenor, HH Working Group, LHC Higgs Cross Section Working Group

2013-2019, Member, Max Planck Advisory Board

2014, Member, NSF Committee of Visitors

2013, Convenor, Higgs Working Group, Snowmass Summer Study

2013, Convenor, Theory Working Group, Snowmass Summer Study

2012-present, Chair, TASI Scientific Advisory Board

2012-present, Chair, APS Nominating Committee

2007-2008, Chair, Fermilab Program Advisory Board

2006-2010, Member, Santa Barbara KITP Advisory Board

2002-2006, Chair/Vice Chair/Past Chair, Division of Particles and Fields, APS
2004-2006, Vice Chair, EPP2010 , Committee of the National Research Council
1999-2002, Member, High Energy Physics Advisory Panel
1999-2002, APS Divisional Councilor
1997, Member, HEPAP subpanel on The Future of High Energy Physics
1997-2000, Member, APS Committee on the Status of Women in Physics
1991-1993, Member, SSC Program Advisory Committee

Honors and Awards

2017, Sakurai Prize of APS
2015, Humboldt fellowship
2014, Ben Lee Fellow, Fermilab.
2006, Fellow of the American Association for the Advancement of Science
1998, APS Centennial Speaker
1995, Fellow of the American Physical Society

Significant Publications

S. Dawson, C.-Y. Chen, and I. Lewis, *Exploring resonant di-Higgs Boson Production in the Higgs Singlet Model*, Phys. Rev. **D91** (2015) 035015.
S. Dawson *et al*, *Higgs Working Group Report of the Snowmass 2013 Community Planning Study*, arXiv:1310.8361.
S. Dawson and E. Furlan, *A Higgs Conundrum with Vector Fermions*, Phys. Rev. **D86** (2012) 015021.
S. Dawson and M.-C. Chen, *One Loop Radiative Corrections to the rho Parameter in the Littlest Higgs Model*, Phys. Rev. **D70** (2004) 015003.
S. Dawson, L. Orr, L. Reina, and D. Wackerth, *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. Wackerth, *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, *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 One Particle Differential Cross Section for Heavy Quarks Production in Hadronic Collisions*, Nucl.Phys. **B327** (1989) 49.

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, *The Effective W Approximation*, Nucl.Phys. **B249** (1985) 42.