

CUMULATIVE BIO-BIBLIOGRAPHY

University of California, Santa Cruz, CA
August 20, 2024
Howard E. Haber
Distinguished Professor
Physics Department
Stevenson College

The signature below indicates that the following information is believed to be accurate and the bio-bibliographical information may be released to the public.

| Howard E. Haber | Date |
|-------------------|--|
| EMPLOYMENT | |
| 2020–present | Research Professor of Physics, Department of Physics, UC Santa Cruz |
| 1990–2020 | Professor of Physics, Department of Physics, UC Santa Cruz |
| 1989–1990 | Associate Professor of Physics, Department of Physics, UC Santa Cruz |
| 1988–1989 | Assistant Professor of Physics, Department of Physics, UC Santa Cruz |
| 1984–1988 | Adjunct Assistant Professor of Physics, Department of Physics, UC Santa Cruz |
| 1982–1984 | Assistant Research Physicist/Visiting Assistant Professor, UC Santa Cruz |
| 1980–1982 | Postdoctoral Research Associate, University of Pennsylvania |
| 1978–1980 | Postdoctoral Research Associate, Theoretical Physics Group, Lawrence Berkeley Laboratory |
| 1975–1978 | Research Assistant, University of Michigan |
| 1973–1978 | Teaching Assistant, University of Michigan |

EDUCATION

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|----------------|---|
| Ph.D., Physics | University of Michigan, 1978 |
| S.M., Physics | Massachusetts Institute of Technology, 1973 |
| S.B., Physics | Massachusetts Institute of Technology, 1973 |
| S.B., Math | Massachusetts Institute of Technology, 1973 |

ACADEMIC WEB PAGE OF HOWARD E. HABER

<http://scipp.ucsc.edu/~haber/>

RECENT RESEARCH INTERESTS

The basic themes underlying my research program involve the study of: (i) the dynamics responsible for electroweak symmetry breaking; (ii) the theory and phenomenology of Higgs bosons; (iii) TeV-scale supersymmetry as a framework for incorporating a weakly-coupled Higgs sector; (iv) the phenomenology of signals for new physics beyond the Standard Model at the Large Hadron Collider (LHC) and future colliders; and (v) connections of low-energy phenomena with fundamental scales that lie beyond the TeV scale (e.g. lepton number violation and implications for neutrino masses).

After more than ten years after the discovery of the Higgs boson in 2012 at the Large Hadron Collider (LHC), many properties of this spin-zero particle have been measured. These results have profound implications for the dynamics of electroweak symmetry breaking and the possible structure of new physics that may lie beyond the Standard Model (SM) of particle physics. For example, most approaches to physics beyond the SM include extended Higgs sectors. Present Higgs data suggest that the properties of one of the scalars of the Higgs sector (identified with the observed Higgs boson) must have properties that closely approximate that of the SM Higgs boson. This constraint in turn imposes important constraints on any SM extension. The two-Higgs doublet model (2HDM) is a convenient theoretical laboratory for the study of extended Higgs sectors. Indeed, the two doublet extended Higgs sector is a key component of the simplest supersymmetric extension of the SM.

The theoretical structure and phenomenological profile of the 2HDM has attracted much attention in recent years. Starting with a seminal paper in collaboration with Sacha Davidson published in 2005, my work has advocated the importance of a basis-independent treatment of the 2HDM. Since the discovery of the Higgs boson, much of my research efforts have focused on the relevance of the so-called decoupling and alignment limits of the 2HDM in which one of scalars closely resembles the SM Higgs boson. The basis-independent technology provides a very powerful and simple framework for studying and interpreting these limits.

If new physics beyond the SM emerges at the LHC, it will be essential to develop techniques for measuring new particle interaction strengths at high energy colliders. By detecting relations among various independent couplings, one can ascertain underlying symmetries and distinguish among different theoretical interpretations of the new physics. For example, with sufficient precision, it will be possible to provide convincing evidence for or against a supersymmetric interpretation of new fundamental physics phenomena. A precision Higgs program at the LHC and at a future collider (such as the proposed International Linear Collider) can also provide important clues as to what may lie beyond the Standard Model.

PROFESSIONAL COMPETENCE AND ACTIVITY

Professional Activities

Honors and Awards

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| 2023 | American Physical Society Outstanding Referee |
| 2018 | Simons GGI Visiting Scientist Fellowship, The Galileo Galilei Institute for Theoretical Physics, Arcetri, Florence, Italy |

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| 2017 | Co-recipient of the American Physical Society J.J. Sakurai Prize for Theoretical Particle Physics (\$10,000, shared among the four recipients) |
| 2015 | Received the honorary designation of Distinguished Professor of Physics |
| 2013 | Selected (with Abraham Seiden) to deliver the UCSC Faculty Research Lecture in February, 2014 |
| 2013 | Finalist for an Excellence in Teaching Award, chosen by the Committee on Teaching of the UCSC Faculty Senate |
| 2009 | Alexander von Humboldt Research Award, €60,000 |
| 2008–2011 | Visiting Professor, Institute for Particle Physics Phenomenology, University of Durham, England |
| 1998 | Frontier Fellow, Fermilab |
| 1995 | Scientific Associate, CERN |
| 1993 | elected Fellow of the American Physical Society |
| 1985–1988 | Department of Energy Outstanding Junior Investigator |

Institutional Affiliations

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| 2015–present | CERN User |
| 2013–present | Honorary Member of the Aspen Center for Physics |
| 2013–present | Lab Affiliate, Lawrence Berkeley National Laboratory |
| 1998–2024 | Fermilab User |
| 1982–present | Lab Affiliate, SLAC National Accelerator Center |

Grants and Contracts

| | |
|-----------|---|
| 2025–2026 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefania Gori, Stefano Profumo, and Edgar Shaghoulain), \$521,000 |
| 2024–2025 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefania Gori, Stefano Profumo, and Edgar Shaghoulain), \$504,000 |
| 2023–2024 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefania Gori, Stefano Profumo, and Edgar Shaghoulain), \$487,000 |
| 2022–2023 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefano Profumo), \$382,000 |
| 2021–2022 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefano Profumo), \$371,000 |
| 2020–2021 | Department of Energy Research Grant (with Wolfgang Altmannshofer, Michael Dine, Stefano Profumo), \$210,000 |
| 2019–2020 | Department of Energy Research Grant (with Michael Dine and Stefano Profumo), \$317,000 |
| 2018–2019 | Department of Energy Research Grant (with Michael Dine and Stefano Profumo), \$308,000 |

2017–2018 Department of Energy Research Grant (with Michael Dine and Stefano Profumo), \$299,000

2016–2017 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$403,000

2015–2016 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$411,000

2014–2015 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$420,000

2013–2014 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$411,000 (eleven months)

2012–2013 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$123,000 (six months)

2011–2012 Department of Energy Research Grant (with Thomas Banks, Michael Dine and Stefano Profumo), \$474,000

2010–2011 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$410,000

2009–2010 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$403,000

2008–2009 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$412,000

2007–2008 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$391,000

2006–2007 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$380,000

2005–2006 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$370,000

2004–2005 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$375,000

2003–2004 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$395,000

2002–2003 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$360,000

2001–2002 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$330,000

2000–2001 Department of Energy Research Grant (with Thomas Banks and Michael Dine), \$300,000

2000 NSF grant in support of the RADCOR-2000 conference, \$5,000

1999–2000 Department of Energy Research Grant (with Michael Dine), \$170,000

1998–1999 Department of Energy Research Grant (with Michael Dine), \$160,000

1997–1998 Department of Energy Research Grant (with Michael Dine), \$146,000

1997–2000 US–Israel Bi-national Science Foundation grant (with Yosef Nir and Michael Dine)

1996–1998 Maria Sklodowska-Curie Joint Fund, Poland–USA (with Stefan Pokorski and Michael Dine)

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| 1996–1997 | Department of Energy Research Grant (with Michael Dine), \$141,000 |
| 1995–1996 | Department of Energy Research Grant (with Michael Dine), \$144,000 |
| 1994–1995 | Department of Energy Research Grant (with Michael Dine), \$152,000 |
| 1993–1996 | US–Israel Bi-national Science Foundation grant (with Yosef Nir and Michael Dine) |
| 1993–1994 | Department of Energy Research Grant (with Michael Dine), \$160,000 |
| 1993–1994 | Texas National Laboratory Research Commission Grant (with John Gunion), \$120,000 |
| 1992–1993 | Department of Energy Research Grant (with Michael Dine), \$160,000 |
| 1991–1992 | Department of Energy Research Grant (with Michael Dine), \$160,000 |
| 1990–1991 | Department of Energy Research Grant (with Michael Dine), \$135,000 |
| 1989–1990 | Department of Energy Research Grant, \$90,000 |
| 1988–1989 | Department of Energy Research Grant (with Thomas Banks), \$178,386 |
| 1987–1988 | Department of Energy Outstanding Junior Investigator, and Research Grant (with Thomas Banks), \$160,000 |
| 1986–1987 | Department of Energy Outstanding Junior Investigator Research Grant, \$60,000 |
| 1986 | grants for the 1986 Theoretical Advanced Study Institute (with Joel Primack) Department of Energy: \$30,000 and National Science Foundation: \$30,000 |
| 1985–1986 | Department of Energy Outstanding Junior Investigator Research Grant, \$57,000 |
| 1985 | Department of Energy Outstanding Junior Investigator Research Grant, \$30,000 |

Partner to International research efforts

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| 2017–2021 | Member of the Harmonia project, under contract UMO-2015/18/M/ST2/0051, supported by the Polish National Science Center for Scientific Research |
| 2015–2019 | <i>Non Minimal Higgs</i> , MSCA-RISE grant of the European Commission (Marie Skłodowska-Curie Actions), € 301,500 |

Professional Organizations

American Physical Society
 American Association of Physics Teachers
 Sigma Xi, University of California, Santa Cruz Chapter
 Mathematical Association of America

WRITINGS AND CREATIVE ACTIVITIES IN PROGRESS

Articles submitted to Professional Journals

1. Explicit form for the most general Lorentz transformation revisited, H.E. Haber, arXiv:2312.12969 [physics.class-ph].

PUBLISHED WRITINGS AND CREATIVE ACTIVITIES

Books

1. *From Spinors to Supersymmetry*, H.K. Dreiner, H.E. Haber, and S.P. Martin (Cambridge University Press, Cambridge, UK, 2023).
2. *The Higgs Hunter's Guide*, J.F. Gunion, H.E. Haber, G.L. Kane, and S. Dawson, *Frontiers in Physics Lecture Note Series #80*, (Addison-Wesley Publishing Company, Redwood City, CA, 1990); paperback edition: (Westview Press, Boulder, CO, 2000).

Edited Books

1. *CPNSH: Workshop on CP Studies and Non-Standard Higgs Physics, May 2004—December 2005*, edited by S. Kraml *et al.*, CERN Yellow Book, CERN-2006-009 (2006).
2. *Particle Physics and Cosmology: The Quest for Physics Beyond the Standard Model(s), Proceedings of the 2002 Theoretical Advanced Study Institute in Elementary Particle Physics*, H.E. Haber and A.E. Nelson, editors (World Scientific, Singapore, 2004).
3. *Proceedings of the 5th International Symposium on Radiative Corrections (RADCOR 2000)*, H.E. Haber, editor (SLAC-R-579; eConf C000911).
4. *Electroweak Symmetry Breaking and New Physics at the TeV Scale*, T.L. Barklow, S. Dawson, H.E. Haber, and J. Siegrist, editors (World Scientific, Singapore, 1996).
5. *From the Planck Scale to the Weak Scale: Toward a Theory of the Universe, Proceedings of the 1986 Theoretical Advanced Study Institute in Elementary Particle Physics*, vols. I and II, H.E. Haber, editor, (World Scientific, Singapore, 1987).
6. *Proceedings of the Theoretical Symposium on Intense Medium Energy Sources of Strangeness*, T. Goldman, H.E. Haber, and H.F.-W. Sadrozinski, editors, (American Institute of Physics, New York, 1983).

Chapters in Books

1. Supersymmetry, Part I (Theory), B.C. Allanach and H.E. Haber, in *Review of Particle Physics*, S. Navas *et al.* [Particle Data Group], *Physical Review D* **110**, 030001 (2024).
2. Supersymmetry, Part I (Theory), B.C. Allanach and H.E. Haber, in *Review of Particle Physics*, R.L. Workman *et al.* [Particle Data Group], *Progress of Theoretical and Experimental Physics* **2022**, 083C01 (2022).
3. Supersymmetry, Part I (Theory), B.C. Allanach and H.E. Haber, in *Review of Particle Physics*, P.A. Zyla *et al.* [Particle Data Group], *Progress of Theoretical and Experimental Physics* **2020**, 083C01 (2020).
4. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, M. Tanabashi *et al.* [Particle Data Group], *Physical Review* **D98**, 030001 (2018).

5. Supersymmetric Theory and Models, H.E. Haber and L. Stephenson Haskins, in *Anticipating The Next Discoveries In Particle Physics*, Proceedings of the 2016 Theoretical Advanced Study Institute in Elementary Particle Physics, edited by Rouven Essig and Ian Low (World Scientific, Singapore, 2018) pp. 355–499.
6. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, C. Patrignani *et al.* [Particle Data Group], *Chinese Physics* **C40**, 100001 (2016).
7. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, K.A. Olive *et al.* [Particle Data Group], *Chinese Physics* **C38**, 090001 (2014).
8. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, J. Beringer *et al.* [Particle Data Group], *Phys. Rev.* **D86**, 010001 (2012).
9. Low-Energy Supersymmetry at Future Colliders, J.F. Gunion and H.E. Haber, updated chapter in *Perspectives on Supersymmetry II*, edited by G.L. Kane (World Scientific, Singapore, 2010) pp. 420–445.
10. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, K. Nakamura *et al.* [Particle Data Group], *Journal of Physics* **G37**, 075021 (2010).
11. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, C. Amsler *et al.* [Particle Data Group], *Phys. Lett.* **B667**, 1–1340 (2008).
12. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, W.-M. Yao *et al.* [Particle Data Group], *Journal of Physics* **G33**, 1–1232 (2006).
13. Higgs Physics at the Linear Collider, J.F. Gunion, H.E. Haber and R. Van Kooten, in *Linear Collider Physics in the New Millennium*, edited by K. Fujii, D. Miller and A. Soni, (World Scientific, Singapore, 2005) pp. 41–133.
14. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, S. Eidelman *et al.* [Particle Data Group], *Phys Lett.* **B592**, 1–1109 (2004).
15. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, K. Hagiwara *et al.* [Particle Data Group], *Phys Rev.* **D66**, 010001 (2002).
16. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, D.E. Groom *et al.* [Particle Data Group], *Eur. Phys. J.* **C15**, 1–878 (2000).
17. Low-Energy Supersymmetry at Future Colliders, J.F. Gunion and H.E. Haber, in *Perspectives on Supersymmetry*, edited by G.L. Kane (World Scientific, Singapore, 1998) pp. 235–255.
18. Supersymmetry, Part I (Theory), H.E. Haber, in *Review of Particle Physics*, C. Caso *et al.* [Particle Data Group], *Eur. Phys. J.* **C3**, 1–794 (1998).
19. Higgs Boson Masses and Couplings in the Minimal Supersymmetric Model, H.E. Haber, in *Perspectives on Higgs Physics II*, edited by G.L. Kane (World Scientific, Singapore, 1997) pp. 23–67.

20. Electroweak Symmetry Breaking and Beyond the Standard Model, S. Dawson and H.E. Haber, in *Electroweak Symmetry Breaking and New Physics at the TeV Scale*, edited by T. Barklow, S. Dawson, H.E. Haber and J. Siegrist (World Scientific, Singapore, 1996) pp. 1–22.
21. Supersymmetry, H.E. Haber, in *Review of Particle Physics*, R.M. Barnett *et al.* [Particle Data Group], *Phys. Rev.* **D54**, 1–720 (1996).
22. Note on Supersymmetry, H.E. Haber, in *Review of Particle Properties*, L. Montanet *et al.* [Particle Data Group], *Phys. Rev.* **D45**, 1173–1823 (1994).
23. Introductory Low-Energy Supersymmetry, H.E. Haber, in *Recent Directions in Particle Theory*, Proceedings of the 1992 Theoretical Advanced Study Institute in Elementary Particle Physics, Boulder, CO, June 1–26, 1992, edited by J. Harvey and J. Polchinski (World Scientific, Singapore, 1993) pp. 589–686.
24. Higgs bosons in the Minimal Supersymmetric Model: The Influence of Radiative Corrections, H.E. Haber, in *Perspectives on Higgs Physics*, edited by G.L. Kane (World Scientific, Singapore, 1993) pp. 79–129.
25. Note on Supersymmetry, H.E. Haber, in *Review of Particle Properties*, K. Hikasa *et al.* [Particle Data Group], *Phys. Rev.* **D45**, S1 (1992) [Erratum: *Phys. Rev.* **D46**, 5210 (1992)].
26. Higgs Physics: Theory and Phenomenology, H.E. Haber, in *The Standard Model and Beyond*, Proceedings of the 1990 Mt. Sorak Symposium on Theoretical Physics, edited by J.E. Kim, (World Scientific, Singapore, 1991) pp. 28–104.
27. Lectures on Electroweak Symmetry Breaking, H.E. Haber, in *Testing the Standard Model*, Proceedings of the 1990 Theoretical Advanced Study Institute in Elementary Particle Physics, edited by M. Cvetič and Paul Langacker (World Scientific, Singapore, 1991) pp. 340–475.

Articles submitted to the arXiv

1. Supersymmetry, Part I (Theory), B.C. Allanach and H.E. Haber, arXiv:2401.03827 [hep-ph].

Peer-reviewed Articles in Professional Journals

1. Classes of complete dark photon models constrained by Z-Physics, M.P. Bento, H.E. Haber and J.P. Silva, *Physics Letters B* **850**, 138501 (2024).
2. Higgs Boson Physics: The View Ahead, H.E. Haber, *Letters in High Energy Physics*, LHEP-451 (2023).
3. Tree-level Unitarity in $SU(2)_L \times U(1)_Y \times U(1)_{Y'}$ Models, M.P. Bento, H.E. Haber and J.P. Silva, *JHEP* **2310**, 083 (2023).
4. Accommodating Hints of New Heavy Scalars in the Framework of the Flavor-Aligned Two-Higgs-Doublet Model, J.M. Connell, P.M. Ferreira and H.E. Haber, *Phys. Rev.* **D108**, 055031 (2023).

5. P-even, CP-violating Signals in Scalar-Mediated Processes, H.E. Haber, V. Keus and R. Santos, *Phys. Rev.* **D106**, 095038 (2022).
6. Exceptional regions of the 2HDM parameter space, H.E. Haber and J.P. Silva, *Phys. Rev.* **D103**, 115012 (2021).
7. Higgs-mass predictions in the MSSM and beyond, P. Slavich, S. Heinemeyer, E. Bagnaschi, H. Bahl, M. Goodsell, H.E. Haber *et al.*, *Eur. Phys. J.* **C81**, 5 (2021).
8. A natural mechanism for approximate Higgs alignment in the 2HDM, P. Draper, A. Ekstedt and H.E. Haber, *JHEP* **2105**, 235 (2021).
9. A tale of three diagonalizations, H.E. Haber, *Int. J. Mod Phys.* **A36**, 2130002 (2021).
10. Useful relations among the generators in the defining and adjoint representations of $SU(N)$, H.E. Haber, *SciPost Phys. Lect. Notes* **21** (2021).
11. Basis-independent treatment of the complex 2HDM, R. Boto, T.V. Fernandes, H.E. Haber, J.C. Romão and J.P. Silva, *Phys. Rev.* **D101**, 055023 (2020).
12. Symmetries and Mass Degeneracies in the Scalar Sector, H.E. Haber, O.M. Ogreid, P. Osland and M.N. Rebelo, *JHEP* **1901**, 042 (2019).
13. Heavy Higgs boson decays in the alignment limit of the 2HDM, B. Grzadkowski, H.E. Haber, O.M. Ogreid and P. Osland, *JHEP* **1812**, 056 (2018).
14. Multi-Higgs doublet models: the Higgs-fermion couplings and their sum rules, M.P. Bento, H.E. Haber, J.C. Romão and J.P. Silva, *JHEP* **1810**, 143 (2018).
15. Multi-Higgs doublet models: physical parametrization, sum rules and unitarity bounds, M.P. Bento, H.E. Haber, J.C. Romão and J.P. Silva, *JHEP* **1711**, 095 (2017).
16. The Impact of Two-Loop Effects on the Scenario of MSSM Higgs Alignment without Decoupling, H.E. Haber, S. Heinemeyer and T. Stefaniak, *Eur. Phys. J.* **C77**, 742 (2017).
17. High scale flavor alignment in two-Higgs doublet models and its phenomenology, S. Gori, H.E. Haber and E. Santos, *JHEP* **1706**, 110 (2017).
18. The Light and Heavy Higgs Interpretation of the MSSM, P. Bechtle, H.E. Haber, S. Heinemeyer, O. Stål, T. Stefaniak, G. Weiglein and L. Zeune, *Eur. Phys. J.* **C77**, 67 (2017).
19. Perturbation Theory in Supersymmetric QED: Infrared Divergences and Gauge Invariance, M. Dine, P. Draper, H.E. Haber and L.S. Haskins, *Phys. Rev.* **D94**, 095003 (2016).
20. Partially Natural Two Higgs Doublet Models, P. Draper, H.E. Haber and J.T. Ruderman, *JHEP* **1606**, 124 (2016).
21. Scrutinizing the alignment limit in two-Higgs-doublet models. II. $m_H = 125$ GeV, J. Bernon, J.F. Gunion, H.E. Haber, Y. Jiang and S. Kraml, *Phys. Rev.* **D93**, 035027 (2016).
22. Alignment limit of the NMSSM Higgs sector, M. Carena, H.E. Haber, I. Low, N.R. Shah and C.E.M. Wagner, *Phys. Rev.* **D93**, 035013 (2016).

23. New LHC Benchmarks for the CP-conserving Two-Higgs-Doublet Model, H. E. Haber and O. Stål, *Eur. Phys. J.* **C75**, 491 (2015).
24. Scrutinizing the alignment limit in two-Higgs-doublet models: $m_h = 125$ GeV, J. Bernon, J. F. Gunion, H. E. Haber, Y. Jiang and S. Kraml, *Phys. Rev.* **D92**, 075004 (2015).
25. Preserving the validity of the Two-Higgs Doublet Model up to the Planck scale, P. Ferreira, H. E. Haber and E. Santos, *Phys. Rev.* **D92**, 033003 (2015).
26. Complementarity between nonstandard Higgs boson searches and precision Higgs boson measurements in the MSSM, M. Carena, H.E. Haber, I. Low, N.R. Shah and C.E.M. Wagner, *Phys. Rev.* **D91**, 035003 (2015).
27. Probing wrong-sign Yukawa couplings at the LHC and a future linear collider, P.M. Ferreira, J.F. Gunion, H.E. Haber and R. Santos, *Phys. Rev.* **D89**, 115003 (2014).
28. Decoupling of the Right-handed Neutrino Contribution to the Higgs Mass in Supersymmetric Models, P. Draper and H.E. Haber, *Eur. Phys. J.* **C73**, 2522 (2013).
29. Mass-degenerate Higgs bosons at 125 GeV in the two-Higgs-doublet model, P.M. Ferreira, R. Santos, H.E. Haber and J.P. Silva, *Phys. Rev.* **D87**, 055009 (2013).
30. A Group-theoretic Condition for Spontaneous CP Violation, H.E. Haber and Z. Surujon, *Phys. Rev.* **D86**, 075007 (2012).
31. Basis-independent methods for the two-Higgs-doublet model III: The CP-conserving limit, custodial symmetry, and the oblique parameters S , T , U , H.E. Haber and D. O’Neil, *Phys. Rev.* **D83**, 055017 (2011).
32. Geometric picture of generalized-CP and Higgs-family transformations in the two-Higgs-doublet model, P. M. Ferreira, H.E. Haber, M. Maniatis, O. Nachtmann and J.P. Silva, *Int. J. Mod. Phys.* **A26**, 769 (2011).
33. Supersymmetric Monojets at the Large Hadron Collider, B.C. Allanach, S. Grab and H.E. Haber, *JHEP* **1101**, 138 (2011) [Erratum: **1107**, 087 (2011); **1109**, 027 (2011)].
34. Two-component spinor techniques and Feynman rules for quantum field theory and supersymmetry, H.K. Dreiner, H.E. Haber and S.P. Martin, *Physics Reports* **494**, 1 (2010).
35. Basis invariant conditions for supersymmetry in the two-Higgs-doublet model, P.M. Ferreira, H.E. Haber and J.P. Silva, *Phys. Rev.* **D82**, 016001 (2010).
36. Note on the pseudo-Nambu-Goldstone Boson of Meta-stable SUSY Violation, T. Banks and H.E. Haber, *JHEP* **0911**, 097 (2009).
37. Generalized CP symmetries and special regions of parameter space in the two-Higgs-doublet model, P.M. Ferreira, H.E. Haber and J.P. Silva, *Phys. Rev.* **D79**, 116004 (2009).
38. Hard supersymmetry-breaking “wrong-Higgs” couplings of the MSSM, H.E. Haber and J.D. Mason, *Phys. Rev.* **D77**, 115011 (2008).

39. Seesaw mechanism in the sneutrino sector and its consequences, A. Dedes, H.E. Haber and J. Rosiek, *JHEP* **0711**, 059 (2007).
40. The neutralino sector in the U(1)-extended supersymmetric standard model, S.Y. Choi, H.E. Haber, J. Kalinowski and P.M. Zerwas, *Nucl. Phys.* **B778**, 85 (2007).
41. Basis-independent methods for the two-Higgs-doublet model. II. The Significance of $\tan\beta$, H.E. Haber and D. O'Neil, *Phys. Rev.* **D74**, 015018 (2006) [Erratum: *Phys. Rev.* **D74**, 059905 (2006)].
42. Supersymmetry parameter analysis: SPA convention and project, J.A. Aguilar-Saavedra *et al.*, *Eur. Phys. J.* **C46**, 43 (2006).
43. Physics Interplay of the LHC and the International Linear Collider, G. Weiglein *et al.* [The LHC/ILC Study Group], *Physics Reports* **426**, 47 (2006).
44. Conditions for explicit CP-Violation in the two-Higgs-doublet model, J.F. Gunion and H.E. Haber, *Phys. Rev.* **D72**, 095002 (2005).
45. Basis-independent methods for the two-Higgs-doublet model, S. Davidson and H.E. Haber, *Phys. Rev.* **D72**, 035004 (2005) [Erratum: *Phys. Rev.* **D72**, 099902 (2005)].
46. The CP-conserving two-Higgs-doublet model: The approach to the decoupling limit, J.F. Gunion and H.E. Haber, *Phys. Rev.* **D67**, 075019 (2003).
47. The would-be majoron in R-parity violating supersymmetry, Y. Grossman and H.E. Haber, *Phys. Rev.* **D67**, 036002 (2003).
48. Higgs boson theory and phenomenology, M. Carena and H.E. Haber, *Prog. Part. Nucl. Phys.* **50**, 63 (2003).
49. The Snowmass points and slopes: Benchmarks for SUSY searches, B.C. Allanach *et al.*, *Eur. Phys. J.* **C25**, 113 (2002).
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54. Expected Limits on Supersymmetric Parameters at LEP-200, J.F. Gunion and H.E. Haber, in *ibid.*, pp. 206–207.
55. Determining the Mass of the Gluino at the SSC, R.M. Barnett, J.F. Gunion and H.E. Haber, in *ibid.*, pp. 201–202.
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62. A Primer on Higgs Boson Low-Energy Theorems, S. Dawson and H.E. Haber, in *ibid.*, p. 324.
63. Minimal and Nonminimal Higgs Bosons: Two Introductory Lectures, H.E. Haber, in *ibid.*, p. 197.
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76. Decays of Higgs Bosons to Neutralinos and Charginos in the Minimal Supersymmetric Model: Calculation and Phenomenology, J.F. Gunion and H.E. Haber *et al.*, *Int. J. Mod. Phys.* **A2**, 1035 (1987); and in *ibid.*, p. 145
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81. What if the Higgsino is the Lightest Supersymmetric Particle?, H.E. Haber, in the *Proceedings of the 13th SLAC Summer Institute on Particle Physics*, Stanford, CA, July 29–August 9, 1985, edited by Eileen C. Brennan (SLAC Report No. 296) p. 143.
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83. Implications for Supersymmetry of the CERN Monojets, H.E. Haber, in *The Santa Fe Meeting*, First Annual Meeting (New Series) of the Division of Particles and Fields of the American Physical Society, Oct. 31–Nov. 3, 1984, edited by T. Goldman and M.M. Nieto (World Scientific, Singapore, 1985) p. 390.
84. Searching for Supersymmetry at the SSC, S. Dawson *et al.*, in *Proceedings of the 1984 Summer Study on the Design and Utilization of the Superconducting Super Collider*, Snowmass, Colorado, June 23–July 13, 1984, p. 263.
85. Simulating Supersymmetry at the SSC, R.M. Barnett and H.E. Haber, *ibid.*, p. 296.

86. Signals of new W 's and Z 's, H.E. Haber, *ibid.*, p. 125.
87. Search for Horizontal Gauge Bosons at the SSC, C.H. Albright, N.G. Deshpande, J.F. Gunion, and H.E. Haber, *ibid.*, p. 144.
88. Reconstructing Couplings from Asymmetries in Heavy Z -Boson Decays, N.G. Deshpande, J.F. Gunion, and H.E. Haber, *ibid.*, p. 119.
89. τ -Decay Spectra at the SSC, J.F. Gunion and H.E. Haber, *ibid.*, p. 150.
90. Taus—A Probe of New W and Z Couplings, H.E. Haber, in *ibid.*, p. 157.
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92. Low Energy Signals of Composite Models, R. Barbieri *et al.*, published in the *Proceedings of the Workshop on Electroweak Symmetry Breaking*, p. 37 (1984).
93. Heavy Particle Production at the SSC, S.J. Brodsky, H.E. Haber, and J.F. Gunion, in the *Proceedings of the 1984 DPF Workshop on $p\bar{p}$ Options for the Supercollider*, H.E. Haber, edited by J.E. Pilcher and A.R. White, American Physical Society (1984), p. 100.
94. Production of Gluino-Gluino Bound States at Hadron Colliders, in *ibid.*, p. 287.
95. Are Supersymmetry and Grand Unification Compatible? H.E. Haber, in *Quarks, Leptons and Supersymmetry*, edited by J. Tran Thanh Van (Editions Frontieres, France, 1982).

UNPUBLISHED NOTES AND OTHER WRITINGS

Note: The unpublished notes and other writings listed below were prepared either as supplements to my teaching or as a set of notes used in research projects. Links to these notes can be found on my UCSC Academic webpage, <http://scipp.ucsc.edu/~haber/#sec6>.

1. *Acceleration and Force in Special Relativity*
2. *Thomas Precession and the BMT equation*
3. *The tensor spherical harmonics*
4. *Evaluating integrals arising from Barr-Zee diagrams*
5. *Exponentiating the Lie algebra of the Lorentz group*
6. *Rational Approximations to $\ln 2$*
7. *Generalized Functions for Physics*
8. *Evaluating the finite part of the Passarino-Veltman function $B_0(p^2; m_1^2, m_2^2)$*
9. *Evaluating the one-loop function arising in $h \rightarrow \gamma\gamma$*
10. *Analytic formulae for the Feynman propagator in coordinate space*

11. *A Tale of Three Diagonalizations*
12. *Notes on the Matrix Exponential and Logarithm*
13. *The characteristic polynomial*
14. *What is the group of conjugate symplectic matrices?*
15. *Parameterization of real orthogonal antisymmetric matrices*
16. *Toward a set of 2HDM benchmarks*
17. *The eigenvalues of the quadratic Casimir operator and second-order indices of a simple Lie algebra*
18. *Notes on basis changes and matrix diagonalization*
19. *Notes on the complex inverse trigonometric and hyperbolic functions and their principal values*
20. *Electron wave function and mass renormalization in QED*
21. *Proof of a trace inequality in matrix algebra*
22. *Notes on the spontaneous breaking of $SU(N)$ and $SO(N)$ via a second-rank tensor multiplet*
23. *Notes on antisymmetric matrices and the pfaffian*
24. *Complex representation of scalar fields and the embedding of $U(n)$ in $SO(2n)$*
25. *The probability that a product of random numbers is less than a fixed constant*
26. *Massless Majorana and Weyl fermions cannot be distinguished*

MISCELLANEOUS

1. A Q&A panel with SCIPP physicists, Howard Haber, Jason Nielsen, Stefano Profumo, Alexander Grillo, Ryan Reece and Sheena Schier following a screening of the documentary film *Particle Fever* at the Nickelodeon on March 14, 2014.
See <http://news.ucsc.edu/2014/02/particle-fever.html>
2. Aspen Center for Physics presents: the Heinz R. Pagels Public Lecture Series—*What's Coming at the Large Hadron Collider? Dark Matter? Black Holes? New Dimensions in Space* with Michael Turner, Marcela Carena, Patrick Fox, Howard Haber, Elizabeth Simmons on August 14, 2008. This event was televised.
3. The EPP Questions: Response from the LHC/ILC Study Group, J. Conway, J.F. Gunion, H.E. Haber, S. Heinemeyer, G. Moortgat-Pick and G. Weiglein, submitted to the Elementary Particle Physics in the 21st Century (EPP 2010) Panel of the National Research Council of the National Academy of Sciences (May, 2005).

UNIVERSITY SERVICE

Administrative Appointments and Service

Department:

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| 2019–2020 | Member, Undergraduate Curriculum Committee |
| Spring 2019 | Member, Graduate Committee |
| 2018–2019 | Member, Community Prize & Development Committee |
| Spring 2018 | Co-Chairman, Physics Colloquium Committee |
| 2017-2018 | Chairman, Graduate Recruitment Committee |
| 2016-2018 | Member, Faculty Recruitment Committee |
| 2016-2017 | Member, Graduate Recruitment Committee |
| 2015-2016 | Chairman, Graduate Recruitment Committee |
| 2015 | Member, Physics Department Colloquium Committee |
| 2015 | Member, Graduate Recruitment Committee |
| 2012–2013 | Chairman, Graduate Recruitment Committee |
| 2012–2013 | Chairman, Physics Graduate Committee |
| 2009–2011 | Member, Graduate Recruitment Committee |
| 2005–2008 | Chairman, Graduate Recruitment Committee |
| 2003–2004 | Co-chairman, Physics Colloquium Committee |
| 2003–2004 | Member, Physics Undergraduate Committee |
| 1997–2003 | Chairman, Physics Undergraduate Committee |
| 1995–1996 | Chairman, Physics Colloquium Committee |
| 1994–1997 | Member, Physics Undergraduate Committee |
| 1994 | Member, Physics Colloquium Committee |
| 1990–1994 | Chairman, Physics Graduate Committee |
| 1990–1991 | Member, Search Committee, Target of Opportunity Position |
| 1989–1990 | Member, Graduate Committee |
| 1989–1990 | Member, Search Committee, Chairman, HEP Theory Position |
| 1988–1989 | Chairman, Computer Committee |

Academic Senate:

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| 2021–2022 | Member, Committee on the Faculty Research Lecture |
| 2014–2016 | Member, Senate Committee on Library and Scholarly Communication (COLASC) |
| December, 2007 | Chair, University Ad-Hoc Committee (for faculty promotion) |
| June, 2007 | Chair, University Ad-Hoc Committee (for faculty promotion) |
| 2001–2004 | Member, University Ad-Hoc Committee (for faculty promotion) |

- 2000 Chair, University Ad-Hoc Committee (for faculty promotion)
- 1999–2000 Member, Committee on Rules, Jurisdiction and Elections
- 1999 Chair, University Ad-Hoc Committee (for faculty promotion)
- 1998 Chair, University Ad-Hoc Committee (for faculty promotion)
- 1998 Co-authored (with Professor David M. Harrington): *Faculty Perceptions of a UCSC Research Environment in Need of Restoration and Improvement*, sponsored by the UCSC Committee on Research and contributed to the Advisory Report of the Millennium Committee [see: <http://scipp.ucsc.edu/~haber/cor/ucscresearch.html>].
- 1997 Member, University Ad-Hoc Committee (for faculty promotion)
- 1996 Chair, UCSC Campus forum to address the question: Should UC renew its contract with the Department of Energy (DOE) to manage the Lawrence Livermore National Laboratory and Los Alamos National Laboratory? [For the announcement of the forum, see http://scipp.ucsc.edu/~haber/UC_CORP/santacruz.html].
- 1995-1998 Chairman, Committee on Research (UCSC Academic Senate)
- 1992 Member, University Ad-Hoc Committee (for faculty promotion)

UC Office of the President:

- 1995-1998 Member, University of California Committee on Research Policy (UCORP)
- 1995–1996 Webmaster for UCORP. Created two web pages: a public page reporting UCORP activities [http://scipp.ucsc.edu/~haber/UC_CORP/] and a private page [<http://scipp.ucsc.edu/~haber/ucorp/>] which documented ongoing UCORP activities. A special web page was created to document the ongoing campus debate on the question of whether UC should renew its contract with the Department of Energy (DOE) to manage the Lawrence Livermore National Laboratory and Los Alamos National Laboratory [see http://scipp.ucsc.edu/~haber/UC_CORP/doelabs.html].

Division of Biological and Physical Sciences:

- 2004–2006 Chair, Divisional Committee on Academic Personnel
- 1999–2004 Member, Divisional Committee on Academic Personnel
- 1999–2000 Member, Divisional Curriculum Committee

Miscellaneous UC Service:

- 2002–2005 Member, Dean’s Committee on Opportunity for Particle Theory at UC Davis.

OUTSIDE PROFESSIONAL ACTIVITIES

Invited Talks at Conferences and Workshops

- June, 2024 31st International Conference on Supersymmetry and Unification of Fundamental Interactions: Theory meets Experiment (SUSY 2024), in Madrid, Spain, “Classes of complete dark photon models constrained by Z Physics”
- June, 2024 PLANCK 2024: 26th International Conference from the Planck Scale to the Electroweak Scale, In Lisbon, Portugal, “Flavor-nondiagonal neutral Higgs Yukawa couplings revisited”
- May, 2024 Cosmology, Astrophysics, Theory and Collider Higgs 2024 (CATCH22+2), at the Dublin Institute for Advanced Study (DIAS), in Dublin, Ireland, “Classes of complete dark photon models constrained by Z Physics ”
- September, 2023 Scalars 2023, at the University of Warsaw in Warsaw, Poland, “Scalar revelations at future e^+e^- colliders”
- September, 2023 Higgs Days at Santander 2023, in Santander, Spain, “Signals of new heavy scalars in the flavor-aligned 2HDM”
- July, 2023 The XXX International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2023), at the University of Southampton, in Southampton, England, “Supersymmetry confronts a SM-like Higgs boson”
- July, 2023 Pre-SUSY 2023, preceding the 30th International Conference on Supersymmetry and Unification of Fundamental Interactions, at the University of Southampton, in Southampton, England, “Supersymmetry and Higgs Physics” (two lectures)
- June, 2023 The 6th International Workshop on "Higgs as a Probe of New Physics" (HPNP2023), at Osaka University, in Osaka, Japan, “Signals of new heavy scalars in the flavor-aligned 2HDM”
- May, 2023 Beyond the SM from Colliders to the Early Universe: a symposium in honor of Marcela Carena and Carlos Wagner on the occasion of their 60th birthdays, at the University of Chicago in Chicago, IL USA and at Fermilab in Batavia, IL USA, “My Journey through Physics with Marcela and Carlos”
- May, 2023 PLANCK 2023: 25th International Conference from the Planck Scale to the Electroweak Scale, at the University of Warsaw in Warsaw, Poland, “Higgs Boson Physics—The View Ahead”
- May, 2023 International Workshop on Future Linear Colliders (LCWS2023), at SLAC National Accelerator Laboratory in Stanford, CA USA, “P-even, CP-violating Signals in Scalar-Mediated Processes”
- March, 2023 Herbi-Fest, at the Bethe Center for Theoretical Physics in Bonn, Germany, “Adventures from Spinors to Supersymmetry”
- August, 2022 Workshop on Multi-Higgs Models, at the Instituto Superior Técnico in Lisbon, Portugal, “P-even, CP-violating Signals in Scalar-Mediated Processes”

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| June, 2022 | The XXIX International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2022), at the University of Ioannina in Ioannina, Greece, “The anapole moment of a charged lepton in softly-broken Supersymmetric QED” |
| December, 2021 | DISCRETE 2020-2021 Workshop, “A natural mechanism for a SM-like Higgs boson in the 2HDM without decoupling” |
| August, 2021 | Charged Higgs Online Workshop, “Extended Higgs sector at present and future colliders” |
| August, 2021 | The 49th SLAC Summer Institute (SSI 2021)–The Higgs State Fair, at SLAC in Stanford, CA USA, “Higgs Boson Physic—The View Ahead” |
| March, 2021 | The 5th International Workshop on "Higgs as a Probe of New Physics" Special Edition 2021 (HPNP2021), in Osaka, Japan, “Exceptional regions of the 2HDM parameter space” |
| September, 2019 | Higgs Days 2019, in Santander, Spain, “Future Perspectives (Part 2)” |
| September, 2019 | Scalars 2019, in Warsaw, Poland, “The Future of Particle Physics—A Theorist’s Perspective” |
| September, 2019 | Scalars 2019, in Warsaw, Poland, “Approximate alignment without decoupling in the 2HDM naturally” |
| August, 2019 | Sorak Symposium reminiscence on Particle Physics, in South Korea, “Quo Vadis Higgs (or what the current Higgs data is trying to tell us)” |
| August, 2019 | Sorak Symposium reminiscence on Particle Physics, in South Korea, “The incomplete and biased history of the Higgs boson” |
| May, 2019 | 7th RISE Collaboration Workshop: NonMinimalHiggs, in Helsinki Finland, “Approximate alignment without decoupling in the 2HDM naturally” |
| February, 2019 | The 4th Toyama International Workshop on "Higgs as a Probe of New Physics 2019" (HPNP2019), in Osaka, Japan, “Symmetries and Mass Degeneracies in the Scalar Sector” |
| December, 2018 | The 5th HARMONIA Warsaw-Lisbon-Catania-Dresden meeting, at the OCHOTA campus of the University of Warsaw, in Warsaw, Poland, “Symmetries and Mass Degeneracies in the Scalar Sector” |
| September, 2018 | Workshop on Multi-Higgs Models, at the Instituto Superior Técnico in Lisbon, Portugal, “Symmetries and Mass Degeneracies in the Scalar Sector” |
| August, 2018 | The 46th SLAC Summer Institute (SSI 2018)–Standard Model at 50: Successes and Challenges, at SLAC in Stanford, CA USA, “The woefully incomplete, unabashedly biased history of the Higgs Boson” |
| June, 2018 | MASS2018: Origin of Mass at the High Energy and Intensity Frontier, at CP3 Origins in Odense, Denmark, “Beyond the Standard Model Higgs Boson” |
| May, 2018 | PLANCK 2018: 21th International Conference from the Planck Scale to the Electroweak Scale, in Bonn, Germany, “Mass Degeneracies in Extended Higgs Sectors” |
| March, 2018 | Rencontres de Moriond: QCD and High Energy Interactions, in La Thuile, Aosta Valley, Italy, “Approximate Higgs alignment without decoupling” |

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| February, 2018 | TRIUMF Theory Workshop on New Physics and the Higgs, at TRIUMF in Vancouver, BC, Canada, “Mass Degeneracies in Extended Higgs Sectors” |
| November, 2017 | Scalars 2017, at the University of Warsaw, in Warsaw, Poland, “Replicating the Higgs Doublet” |
| September, 2017 | Energy Frontier in Particle Physics: LHC and Future Colliders, at National Taiwan University in Taipei, Taiwan, “Alignment in Models of Extended Higgs Sectors” |
| September, 2017 | GGI Workshop: "Collider Physics and the Cosmos", at the Galileo Galilei Institute for Theoretical Physics in Arcetri, Florence, Italy, “Non-minimal Higgs sectors” |
| May, 2017 | 2nd HARMONIA Meeting, in Warsaw, Poland, “In search of natural Higgs alignment without decoupling in the 2HDM” |
| May, 2017 | PLANCK 2017: 20th International Conference from the Planck Scale to the Electroweak Scale, in Warsaw, Poland, “Alignment in extended Higgs models” |
| March, 2017 | 3rd RISE Collaboration Meeting: NonMinimalHiggs, in Toyama, Japan, “High scale flavor-aligned 2HDM” |
| March, 2017 | The 3rd Toyama International Workshop on ‘Higgs as a Probe of New Physics 2017’ (HPNP2017), in Toyama, Japan, “A Theorist’s Outlook for Higgs physics beyond the Standard Model” |
| January, 2017 | The 2017 April American Physical Society Meeting in January, in Washington, DC, “ Beyond the Standard Model Higgs Boson” |
| December, 2016 | Helsinki Higgs Forum, at the Helsinki Institute of Physics in Helsinki, Finland, “High scale flavor alignment in the 2HDM and its phenomenology” |
| November, 2016 | Higgs Couplings 2016, at SLAC, Stanford, CA, “SUSY and the alignment limit” |
| October, 2016 | Sixth International Workshop on the Prospects for Charged Higgs Discovery at Colliders (CHARGED 2016), in Uppsala, Sweden, “ Future Higgs Studies: A Theorist’s Outlook” |
| September, 2016 | Higgs Days at Santander 2016, in Santander, Spain, “ Alignment without decoupling in the MSSM” |
| September, 2016 | Workshop on Multi-Higgs Models, in Lisbon, Portugal, “ Flavor violation via Planck scale alignment in the 2HDM” |
| September, 2016 | Higgs Hunting 2016, in Paris, France, “ Higgs Hunting 2016 Theory Summary Talk” |
| July, 2016 | The 24rd International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2016), in Melbourne, Australia, “Extended Higgs sectors an the alignment limit” |
| June–July, 2016 | Pre-SUSY 2016, preceding the 24th International Conference on Supersymmetry and Unification of Fundamental Interactions, University of Melbourne, Melbourne, Australia, “SM and SUSY Higgs” (three lectures) |
| June, 2016 | 2016 Theoretical Advanced Study Institute (TASI 2016), University of Colorado, Bolder, CO, “Supersymmetric Theories and Models” (four lectures) |

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| August, 2015 | The 23rd International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2015), at Granlibakken Conference Center, Tahoe City, CA, “Partially Natural Two Higgs Doublet Models” |
| May, 2015 | Third KUTS Workshop, LPTHE, Paris, France, “The Alignment Limit of the MSSM Higgs sector—the Impact of Radiative Corrections” |
| April, 2015 | The 4th MCTP Spring Symposium on Higgs Boson Physics in the Standard Model and Beyond, Ann Arbor, MI, “Partially Natural Two Higgs Doublet Models” |
| February, 2015 | The 2nd Toyama International Workshop on Higgs as a Probe of New Physics 2015 (HPNP2015), Toyama, Japan, “Constraints on the alignment limit of the MSSM Higgs sector” |
| January, 2015 | SID Workshop, SLAC, Stanford, CA, “Higgs Physics and the ILC” |
| September, 2014 | IFT Program on Physics Challenges in the face of LHC-14, Madrid, Spain, “Constraints on the alignment limit of the MSSM Higgs sector” |
| September, 2014 | IFT Program on Physics Challenges in the face of LHC-14, Madrid, Spain, “Motivations for a stable scalar in an extended Higgs sector” |
| September, 2014 | Higgs Days at Santander 2014, Santander, Spain, “2HDM Benchmarks—Theoretical Framework” |
| September, 2014 | 3rd Workshop on Multi-Higgs Models, Lisbon, Portugal, “Constraints on the alignment limit of the MSSM Higgs sector” |
| July, 2014 | 22nd International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2014), Manchester, UK, “Can the $Hb\bar{b}$ coupling be equal in magnitude to its SM value but opposite in sign?” |
| June, 2014 | Workshop of the LHC Higgs Cross Section Working Group, CERN “2HDM—Report on recent activities” |
| May, 2014 | Americas Workshop on Linear Colliders (AWLC14), Fermilab, “Probing wrong-sign Yukawa couplings” |
| May, 2014 | Americas Workshop on Linear Colliders (AWLC14), Fermilab, “Higgs Physics” |
| April, 2014 | Precision SUSY Higgs Mass Calculation Initiative, KUTS Workshop I, MPI, Munich, Germany, “Some Issues for Precision Higgs Mass Computations” |
| March, 2014 | Gunion Fest, Davis, CA, “Precision Higgs and Future Colliders” |
| March, 2014 | Bay Area Particle Physics Seminar, San Francisco, CA, “Decoupling and Alignment in Light of the Higgs Data” |
| November, 2013 | 2013 International Workshop on Future Linear Colliders (LCWS 2013), Tokyo, Japan, “Higgs/EWSB Working Group Summary” |
| November, 2013 | 2013 Inter-Academy Seoul Science Forum, Seoul, South Korea, “The Higgs Boson: Past, Present and Future” |
| September, 2013 | Higgs Days at Santander 2013, Santander, Spain, “2HDM Theory and a strategy for benchmarks” |
| September, 2013 | Scalars 2013, Warsaw, Poland, “Higgs Physics at the ILC” |
| July, 2013 | Higgs Hunting 2013, Orsay, France, “Higgs physics—approaching the decoupling limit” |

- July, 2013 LHC–The First Part of the Journey, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, “Decoupling and the MSSM Higgs Mass” ”
- July, 2013 Snowmass Energy Frontier Workshop, University of Washington, Seattle, WA, “BSM Higgs Physics at the ILC”
- June, 2013 PDG Workshop on Searches, Lawrence Berkeley National Laboratory, Berkeley, CA, “Supersymmetry Theory Review”
- May, 2013 Planck 2013: *From the Planck scale to the electroweak scale*, Bonn, Germany, “The MSSM Higgs Mass Revisited”
- April, 2013 The LHC Higgs Signal: Characterization, Interpretation and BSM Model Implications, Davis, CA, “2HDM Benchmarks for LHC Higgs Studies”
- March, 2013 Aspen 2013 Winter Conference–*Higgs Quo Vadis*, Aspen Center for Physics, Aspen, CO, “A Higgs Hunter’s Perspective”
- February, 2013 Higgs as a Probe of New Physics 2013 (HPNP2013), University of Toyama, Japan, “Alternative futures for the Higgs data: are we approaching or receding from the decoupling limit?”
- January, 2013 The Higgs Symposium, The Higgs Centre for Theoretical Physics, University of Edinburgh, “A Higgs Hunter’s Perspective”
- December, 2012 KITP Miniprogram: Higgs Identification, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, “Workshop Summary: Revisiting the Higgs Wishlist”
- December, 2012 West Coast LHC Theory Meeting: Higgs and More at the LHC, University of California, Riverside, “Mass-Degenerate-Higgs Hunters Explore the Two-Higgs-Doublet Model”
- October, 2012 ATLAS Analysis Jamboree on Higgs Searches, Berkeley, CA, “The Two-Higgs Doublet Model in Theory and Practice”
- September, 2012 Higgs Days at Santander 2012, IFCA (Instituto de Fisica de Cantabria), Santander, Cantabria, Spain, “Degenerate Higgs hunters and the $\gamma\gamma$ excess”
- September, 2012 Higgs Days at Santander 2012, IFCA (Instituto de Fisica de Cantabria), Santander, Cantabria, Spain, “Higgs boson couplings near the decoupling limit”
- August, 2012 Workshop on Multi-Higgs Models, Complexo Interdisciplinar da UL, Lisbon, Portugal, “Necessary Conditions for Spontaneous CP Violation”
- July, 2012 40th SLAC Summer Institute, *The Electroweak Scale: Unraveling the Mysteries at the LHC*, “EWSB Basics”
- July, 2012 LHC Theory Workshop, University of Melbourne, “What can the LHC Higgs data teach us about the Two-Higgs-Doublet Model?”
- May, 2012 The Next Stretch of the Higgs Magnificent Mile Workshop, Northwestern University, Chicago campus, “Theoretical motivations for a Higgs factory”
- December, 2011 Annual United Kingdom Theory Meeting, IPPP, University of Durham, “Higgs and SUSY”
- October, 2011 Berkeley workshop on searches for supersymmetry at the LHC, “Theoretical Aspects of Higgs Physics”

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| September, 2011 | International Workshop on Future Linear Colliders (LCWS11), “A Framework for Precision 2HDM studies at the ILC/CLIC” |
| September, 2011 | IDPASC Higgs School, Foz do Arelho, Portugal, “Extending the Standard Model Higgs Sector: Two Higgs doublets and the MSSM” (2 lectures) |
| September, 2011 | 19th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-11), Fermilab, “Higgs: where are we now?” |
| August, 2011 | Scalars 2011 Conference, Warsaw, Poland, “Basis independent methods for the Two-Higgs Doublet Model” |
| August, 2011 | CERN TH-LPCC Summer Institute on LHC Physics, “SUSY Monojets and Precision Coupling Determinations” |
| May, 2011 | Implications of EWSB Workshop, University of Wisconsin at Madison, “What’s so special about the MSSM Higgs sector?” |
| December, 2010 | 4th Annual Workshop of the Helmholtz Alliance “Physics at the Terascale,” Dresden, Germany, “Status and prospects for a Higgs boson discovery” |
| October, 2010 | Higgs Days at Santander 2010, Santander, Spain, “An Introduction to Higgs Boson Theory” |
| October, 2010 | 2nd Bethe Center Workshop: Cosmology meets Particle Physics Bad Honnef, Germany, “Prospects for Higgs Physics at the LHC” |
| August, 2010 | The Pre-18th International Conference on Supersymmetry and Unification of Fundamental Interactions, Bonn, Germany, “Two-component Spinor Formalism: practical methods for treating Majorana fermions” |
| July, 2010 | PASCOS-2010, Valencia, Spain, “Higgs Phenomenology at the LHC” |
| May, 2010 | MCTP Symposium on Higgs Boson Physics, “Custodial Symmetry Breaking in the two Higgs doublet model” |
| January, 2010 | Zurich conference in celebration of Daniel Wyler’s 60th birthday: The New, the Rare and the Beautiful, “Radiative Neutralino Decay—21 Years Later” |
| January, 2010 | Nordic Conference in Particle Physics, Spaaatind, Norway, “Two-component Spinor Formalism: practical methods for treating Majorana fermions” |
| January, 2010 | Nordic Conference in Particle Physics, Spaaatind, Norway, “Introduction to Electroweak Symmetry Breaking” (2 lectures) |
| September, 2009 | DESY Theory Workshop, “Electroweak Symmetry Breaking” |
| September, 2009 | Workshop on Multi-Higgs Models, Lisbon, Portugal, “Custodial Symmetry Breaking in the Two-Higgs-Doublet Model” |
| August, 2009 | CERN Theory Institute, “The Pseudo-Nambu Goldstone Boson of Metastable SUSY-Violation” |
| June, 2009 | The 17th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY-09), “The Pseudo-Nambu Goldstone Boson of Metastable SUSY-Violation” |
| April, 2009 | International Workshop on Supersymmetry and Supersymmetry Breaking, IPPP, Durham, England, “The Pseudo-Nambu Goldstone Boson of Metastable SUSY-Violation” |

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| October, 2008 | Augusto Barroso Fest, Lisbon, Portugal, “The Two-Higgs-Doublet Model: Past, Present and Future” |
| May, 2008 | PLANCK-08 meeting: from the Planck scale to the electroweak scale, “The Wrong-Higgs Couplings of the MSSM” |
| October, 2007 | American Linear Collider Physics Group (ALCPG) Workshop 2007, “The ILC Physics Menu—500 GeV and 1 TeV” |
| August, 2007 | CERN Theory BSM Institute, New Physics and the LHC, “Sneutrino mixing phenomena in the seesaw-extended MSSM” |
| April, 2007 | Workshop on the LHC Early Phase for the ILC, Fermilab, “Report of the Higgs Working Group” |
| January, 2007 | Kane Symposium (in honor of Gordon Kane’s 70th Birthday), “The Two Higgs Doublet Model: Past, Present and Future” |
| August, 2006 | Particle Theory in Anticipation of the LHC—a workshop at the Aspen Center for Physics, Aspen, CO, “Two-Higgs Physics at Future Colliders” |
| July, 2006 | Vancouver Linear Collider Workshop (VLCW-06), University of British Columbia, Vancouver, BC Canada, “A Model Independent Approach to Two-Higgs Doublet Model Physics” |
| July, 2005 | The Pre-13th International Conference on Supersymmetry and Unification of Fundamental Interactions, IPPP, Durham, England, “Practical methods for treating Majorana fermions” |
| May, 2005 | Frontiers in Contemporary Physics III, Vanderbilt University, Nashville, TN, “Linear Collider Physics: Theory and Phenomenology” (2 lectures) |
| March, 2005 | 3rd Workshop on CP Studies and Non-Standard Higgs Physics (CP-NSH), SLAC, Stanford, CA, “Basis-Independent Description of CP-Violation in the Two-Higgs-Doublet Model” |
| February, 2005 | Aspen Winter Conference: The Highest Energy Physics, Aspen, CO, “Opportunities for Discovery at the International Linear Collider (ILC)” |
| August, 2004 | Paul Scherrer Institute Zuoz Summer School on Particle Physics, Zuoz, Switzerland, “Introduction to Supersymmetry” (5 lectures) |
| June, 2004 | Theoretical Advanced Study Institute, Boulder, CO, “Practical Supersymmetry: Four Introductory Lectures” (4 lectures) |
| May, 2004 | PLANCK-04, The 7th European Meeting on Physics From the Planck Scale to the Electroweak Scale, “A New Look at the Two-Higgs-Doublet Model” |
| April, 2004 | International Conference on Linear Colliders LCWS-04, Paris, France, “Higgs Theory—A Brief Overview” |
| January, 2004 | ALCPG 2004 Winter Workshop, SLAC, “Higgs Working Group Summary” |
| October, 2003 | Second Workshop on the Discovery Potential of an Asymmetric B Factory at 10^{36} Luminosity, SLAC, “Exploring Supersymmetry with Precision B Physics” |
| May, 2003 | 2003 PHENO Symposium, Madison, WI, “PHENO-2003 Conference Summary” |
| February, 2003 | LHC/LC Study Group Meeting, CERN, “The approach to the decoupling limit in Two-Higgs-Doublet Models” |

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| September, 2002 | 6th International Symposium on Radiative Corrections: Application of Quantum Field Theory to Phenomenology (RADCOR-2002) and 6th Zeuthen Workshop on Elementary Particle Theory: Loops and Legs 2002, Kloster Banz, Germany, “Decoupling and the radiatively-corrected MSSM Higgs sector” |
| September, 2002 | Summer School for High Energy Physics, Maria Laach, Eifel, Germany, “Higgs Physics” (four lectures) |
| June, 2002 | 10th International Conference on Supersymmetries in Physics (SUSY-02), “Higgs theory and phenomenology in the Standard Model and MSSM” |
| January, 2002 | The 18th International Workshop on Weak Interactions and Neutrinos (WIN-02), “MSSM Higgs Phenomenology in the Decoupling Limit” |
| July, 2001 | Workshop on the Future of High Energy Physics (Snowmass 2001) “Introduction to Electroweak Symmetry Breaking” |
| June, 2001 | ICTP Summer School in High Energy Physics and Cosmology, Trieste, Italy, “Introduction to Supersymmetry” (four lectures) |
| May, 2001 | IPPP Conference on Phenomenology of Beyond the Standard Model, Durham, England, “Precision Higgs Physics” |
| October, 2000 | International Symposium Celebrating 30 Years of Supersymmetry, Minneapolis, Minnesota, “Low-energy supersymmetry and its phenomenology” |
| June, 2000 | 8th International Conference on Supersymmetries in Physics (SUSY-2K), CERN, “Neutrino and Sneutrino Masses and Mixing in R-Parity-Violating Supersymmetry” |
| March, 2000 | LBL Linear Collider Workshop, Berkeley, “Higgs Physics at Future Colliders: Summary and Issues for the Future” |
| June, 1999 | 7th International Conference on Supersymmetries in Physics (SUSY 99), Fermilab, “Theory and phenomenology of the MSSM Higgs sector at the upgraded Tevatron” |
| April, 1999 | Phenomenology for the Third Millennium (Pheno ’99 Symposium), University of Wisconsin, “Recent Developments in Higgs Physics” |
| November, 1998 | Physics at Run II: Workshop on Supersymmetry/Higgs Summary Meeting, Fermilab, “Higgs Working Group Report I” |
| September, 1998 | 4th International Symposium on Radiative Corrections (RADCOR 98), Universitat Autònoma de Barcelona, “How well can we predict the mass of the Higgs Boson of the Minimal Supersymmetric Model?” |
| July, 1998 | 6th International Conference on Supersymmetries in Physics (SUSY 98), Oxford University, “(S)neutrino Masses and Mixing in Low-Energy Supersymmetry” |
| May, 1998 | First European Meeting <i>From the Planck Scale to the Electroweak Scale</i> , Kazimierz, Poland, “Higgs Physics at the Tevatron” |
| May, 1998 | General Meeting of the Supersymmetry/Higgs Physics at the Tevatron Run-II Workshop, “Report of the Higgs Group” |
| November, 1997 | Workshop on Physics at the First Muon Collider, Fermilab, “The Higgs Sector of Low-Energy Supersymmetry” |

- September, 1997 2nd International Workshop on Electron-Electron Interactions at TeV Energies (e^-e^- 97), “Higgs Physics at e^-e^- Colliders”
- June, 1997 ICTP Summer School in High Energy Physics and Cosmology, Trieste, Italy, “The Standard Model—Four Introductory Lectures” (four lectures)
- May, 1997 5th International Conference on Supersymmetries in Physics (SUSY 97), “The Status of the Minimal Supersymmetric Standard Model and Beyond”
- April, 1997 3rd Warsaw Workshop on Physics from the Planck Scale to the Electroweak Scale, Warsaw, Poland, “Sneutrino Mixing Phenomena”
- December, 1996 Rutherford Laboratory Christmas Meeting, “Review of Higgs Physics and Phenomenology”
- December, 1996 Ringberg Workshop on the Higgs Puzzle—What can We Learn from LEP2, LHC, NLC, and FMC?, “Future Directions in Higgs Phenomenology”
- July, 1996 Snowmass Workshop on New Directions for High Energy Physics, “Light Higgs Working Group Summary”
- December, 1995 Workshop on Supersymmetric Phenomena and Supersymmetric Grand Unified Theories, Institute for Theoretical Physics, Santa Barbara, “Low-Energy Supersymmetry, Precision Electroweak Data, and the Top Quark Mass”
- September, 1995 Workshop on Unification, Gran Sasso Laboratory, Italy, “A Four-Generation Low-Energy Supersymmetric Model with a Light Top Quark Mass”
- July, 1995 European Physical Society Meeting, Brussels, Belgium, “Supersymmetric Hints from Precision Electroweak Data?”
- July, 1995 European Physical Society Meeting, Brussels, Belgium, “Recent Refinements in Higgs Physics”
- June, 1995 Workshop on Particle Physics, Valencia, Spain, “Challenges for Low-Energy Supersymmetry”
- June, 1995 Workshop on Physics at Future e^+e^- Linear Colliders, Gran Sasso Laboratory, Italy, “Physics Beyond the Standard Model at Future Colliders”
- March, 1995 German Physical Society Meeting, Karlsruhe, Germany, “Physics Beyond the Standard Model”
- March, 1995 XXXth Rencontres de Moriond: Electroweak Interactions and Unified Theories, “Is $m_t \approx m_W$ Ruled Out?”
- February, 1995 Workshop on Electroweak Physics, Ringberg Castle, Germany, “The Challenge of the Non-Minimal Higgs Sector for Future e^+e^- Colliders”
- December, 1994 Beyond the Standard Model IV Workshop, Granlibakken, Lake Tahoe, CA, “Quest for the Non-Minimal Higgs Sector”
- September, 1994 Supersymmetry Workshop, DESY, Hamburg, Germany, “The MSSM Higgs Sector—Can We Distinguish it from the Standard Model”
- September, 1994 Workshop on Supersymmetry, Institute for Theoretical Physics, University of Warsaw, Poland, “If the Higgs Sector is Non-Minimal, How Will We Know?”
- August, 1994 Report on the DPF Long Range Planning Study, DPF Meeting, Albuquerque, NM, “Electroweak Symmetry Breaking and Beyond the Standard Model”

- July, 1994 Workshop on Electroweak Physics, Eötvös University, Budapest, Hungary, “Decoupling of the Non-Minimal Higgs Sector and Implications for Future Searches”
- July, 1994 Eötvös Summer School Graduate Courses, Eötvös University, Budapest, Hungary, “The Physics of Electroweak Symmetry Breaking” (three lectures)
- August, 1993 XXI SLAC Summer Institute on Particle Physics, Stanford, CA, “Spin Structure at Future High-Energy Colliders” (three lectures)
- April, 1993 Workshop on Recent Advances in the Superworld, Houston, TX, “Low-Energy Supersymmetric Basics” (or “The Supersymmetric Top-Ten Lists”)
- March, 1993 SUSY-93 Workshop, Boston, MA, “Phenomenology of Gluino Searches at the Tevatron”
- October, 1992 23rd Workshop of the INFN Eloisatron Project—The Decay Properties of Supersymmetric Particles, Erice (Trapani), Italy, “The Higgs Sector in the Minimal Supersymmetric Model”
- June, 1992 Theoretical Advanced Study Institute, Boulder, CO, “Three Lectures on Low-Energy Supersymmetry”
- April, 1992 The SSC Physics Symposium, Madison, WI, “Radiatively-Corrected Higgs Sector of the Minimal Supersymmetric Model”
- January, 1992 Aspen Winter Conference in Elementary Particle Physics, “Effects of Radiative Corrections to the Higgs Sector of the Minimal Supersymmetric Model”
- November, 1991 International Workshop on Electroweak Symmetry Breaking, Hiroshima, Japan, “The Higgs Sector in the Minimal Supersymmetric Model: Radiative Corrections and Their Implications”
- September, 1991 Workshop of Physics and Experiments with Linear Colliders, Saariselkä, Finland, “Higgs Theory and Phenomenology at Future e^+e^- Linear Colliders”
- February, 1991 Workshop on Precision Electroweak Measurements, Institute for Theoretical Physics, Santa Barbara, CA, “Supersymmetry Effects on Electroweak Predictions”
- August, 1990 Mt. Sorak Symposium on Theoretical Physics, South Korea, “Two Lectures on Higgs Physics”
- June, 1990 Theoretical Advanced Study Institute, Boulder, CO, “Six Lectures on Electroweak Symmetry Breaking”
- March, 1990 Workshop on Thinking About the Top Quark, Institute for Theoretical Physics, Santa Barbara, CA, “Implications of a Large Top Quark Mass for Higgs Boson Phenomenology”
- July, 1989 8th INFN Eloisatron Project Workshop—Higgs Particles: Physics Issues and Experimental Searches in High Energy Collisions, Erice, Italy, “Nonminimal Higgs Bosons: Theory and Phenomenology”
- May, 1989 Workshop on the Tau-Charm Factory, SLAC, “Can the Higgs Sector be Probed in Tau-Decay?”
- January, 1989 Workshop on High Energy Physics Phenomenology, Bombay, India, “Minimal and Nonminimal Higgs Bosons: Two Introductory Lectures”, and “Higgs Boson Hunting: Report of the Higgs Boson Working Group”

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| July, 1988 | Conference on Phenomenology in High Energy Physics, Trieste, Italy, “Supersymmetry Signals at Present and Future Colliders” |
| June, 1987 | European Physical Society Meeting, Uppsala, Sweden, “Search for Supersymmetry at Future Colliders” |
| May, 1986 | Madison Workshop on Physics Simulations at High Energy, “Distribution of Heavy Particles in the Proton” |
| August, 1985 | Oregon Workshop on Super High Energy Physics, “Beyond the Standard Model at the SSC” |
| June, 1985 | Workshop on Tests of Electroweak Theories, Trieste, Italy, “Signatures of Supersymmetry at the CERN Collider” |
| May, 1985 | Madison Workshop on New Particles, “Signatures of Supersymmetry at the CERN Collider” |
| November, 1984 | Annual Meeting of the Division of Particles and Fields of the American Physical Society, Santa Fe, NM, “Implications for Supersymmetry of the CERN Monojets” |
| June-July, 1984 | Snowmass Workshop on the Superconducting Supercollider, “Report of the New W ’s and Z ’s Working Group” |
| August, 1983 | Gordon Conference, “New Trends in Electroweak Physics” |
| March, 1982 | Rencontres de Moriond, “Are Supersymmetry and Grand Unification Compatible?” |

Outside Committees and Consulting

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| 2015–present | Member of the International Advisory Committee of the Higgs Hunting Conference, Orsay/Paris, France |
| 2013–present | Member of the International Advisory Committee of the International Workshop on Higgs as a Probe of New Physics (HPNP) |
| 2013–present | Honorary Member, Aspen Center for Physics |
| 2011–present | Member of the Program Committee of the Scalars Conference, Warsaw, Poland |
| 2009–present | Member, International Advisory Committee, Workshop on Multi-Higgs Models, Lisbon, Portugal |
| 2007–present | Member of the Particle Data Group |
| 1997–present | Member of the Board of Editors, <i>European Physical Journal C</i> |
| 2022–2023 | Member of the Committee of Visitors (COV) for the Division of Physics at the National Science Foundation |
| 2022 | Member of the Aspen Center for Physics Admissions Committee |
| 2021 | Mail-in reviewer for research grant proposals to the FY2021 Department of Energy Comparative Review of the University HEP Theory Program |
| 2019 | Member, National Science Foundation High Energy Physics Theory and Cosmology Panel |
| 2001–2019 | Member of the International Advisory Board of the International Symposium on Radiative Corrections (RADCOR) |
| 2018 | Mail-in reviewer for theoretical HEP proposals to the FY2018 DOE Office of Science Early Career Research Program |

2018 Member of the Aspen Center for Physics Presidential Search Committee

2017 Member of the American Physical Society J.J. Sakurai Prize Selection Committee

2016–2017 Member of the Division of Particles and Fields Mentoring Award Selection Committee

2016 Chair of the Aspen Center for Physics Presidential Search Committee

2015–2018 Member of the Advisory Committee to the Fermilab Distinguished Scholars Program (FDSP)

2015 Member of the Advisory Committee to HEPAP to formulate a charge to the Subcommittee on Respective Roles and Responsibilities (RR&R)

2015 Member, Department of Energy FY16 University Theory Program Comparative Review Panel

2015 Member, National Science Foundation High Energy Physics Theory and Cosmology Panel

2014 Member, Department of Energy FY15 University Theory Program Comparative Review Panel

2014 Member of the P5 Rollout Campaign Committee

2013–2018 Member of the Dean’s Advisory Committee to evaluate the Laboratory for Nuclear Science at MIT

2013–2015 Elected Secretary/Treasurer of the Division of Particles and Fields of the American Physical Society

2013 Member, Colloquium Committee, Aspen Center for Physics

2011–2012 Member, Admissions Committee, Aspen Center for Physics

2011 Member, Program Committee for the International Workshop on Future Linear Colliders (LCWS11)

2011 Member, International Advisory Committee for the SUSY 2011 Conference

2010–2011 Member, Executive Committee of the Trustees, Aspen Center for Physics

2010 Member, Local Organizing Committee for the SUSY-10 Conference

2010 Member, National Science Foundation High Energy Physics Theory and Cosmology Panel

2009–2010 Member, Program Committee, Aspen Center for Physics

2008–2009 Member, Nominations Committee, Aspen Center for Physics

2007–2008 Member, Program Committee, Aspen Center for Physics

2007 Member, Program Committee, American Linear Collider Physics Group Workshop 2007 (ALCPG07)

2007 Candidate for Vice-Chair of the Division of Particles and Fields

2006–2008 Member, Admissions Committee, Aspen Center for Physics

2006–2008 Member, Nominations Committee, Aspen Center for Physics

2006–2007 Member, Admissions Committee, Aspen Center for Physics

2005–2011 Trustee, Aspen Center for Physics

2006 Member, Department of Energy Panel to Review Outstanding Junior Investigator (OJI) grants in particle physics

2006 Chair of the American Physical Society J.J. Sakurai Prize Selection Committee

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| 2005–2010 | Member, Finance Committee, Aspen Center for Physics |
| 2005–2006 | Member, Program Committee, Aspen Center for Physics |
| 2005 | Vice-chair of the American Physical Society J.J. Sakurai Prize Selection Committee |
| 2004–2005 | Member, Nominations Committee, Aspen Center for Physics |
| 2002–2004 | Member, Editorial Board of Physical Review D |
| 2002–2004 | elected Member, Executive Committee of the Division of Particles and Fields of the American Physical Society |
| 2004 | Chair, Program Committee, Aspen Center for Physics |
| 2004 | Member, Admissions Committee, Aspen Center for Physics |
| 2003 | Chair, Public Lecture Series Committee, Aspen Center for Physics |
| 2003 | Member, Program Committee, Aspen Center for Physics |
| 2001–2002 | Member, International Scientific Advisory Committee for the SUSY-07 Conference |
| 2001–2002 | Member, Tenure Review Committee, Stanford Linear Accelerator Center |
| 2001 | Member, NSF Panel to Review Theoretical Physics Grants |
| 2000–2001 | Member, Computer Committee, Aspen Center for Physics |
| 2000–2001 | Member, Faculty Search Committee, Stanford Linear Accelerator Center |
| 1999 | Chair, Nominations Committee, Aspen Center for Physics |
| 1998–2001 | Member, Finance Committee, Aspen Center for Physics |
| 1998–2001 | Corporate Secretary, Aspen Center for Physics |
| 1997–1998 | Aspen Winter Conference Committee, Aspen Center for Physics |
| 1996–2000 | Member, SLAC Experimental Program Advisory Committee |
| 1996–1997 | Scientific Secretary, Aspen Center for Physics |
| 1995–1996 | Assistant Scientific Secretary, Aspen Center for Physics |
| 1994–1997 | Member, Board of Editors, <i>Zeitschrift für Physik C</i> |
| 1994–1995 | Aspen Winter Conference Committee, Aspen Center for Physics |
| 1993–1995 | Computing Committee, Aspen Center for Physics |
| 1993–2013 | General Member, Aspen Center for Physics |
| 1992–2006 | Outside consultant to the Particle Data Group |
| 1989–1992 | Divisional Associate Editor of <i>Physical Review Letters</i> |
| December, 1989 | Member of a National Science Foundation Panel to select recipients of the Presidential Young Investigator Awards in Physics |

Visiting Appointments

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| July, 2024 | Aspen Center for Physics |
| June, 2024 | CERN Theory Group |
| July-August, 2023 | Department of Applied Mathematics and Theoretical Physics, University of Cambridge |
| July, 2023 | Instituto Superior Técnico in Lisbon, Portugal |

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| June, 2023 | Aspen Center for Physics |
| August, 2022 | Aspen Center for Physics |
| July–August, 2021 | Aspen Center for Physics |
| March, 2020 | Center for Cosmology and Particle Physics, New York University |
| Feb.–March, 2020 | Bethe Center for Theoretical Physics, Bonn |
| August–Sept., 2019 | Aspen Center for Physics |
| July–August, 2019 | Department of Applied Mathematics and Theoretical Physics, University of Cambridge |
| June, 2019 | Instituto Superior Técnico in Lisbon, Portugal |
| June, 2019 | Munich Institute for Astro- and Particle Physics (MIAPP) |
| Nov.–Dec., 2018 | Bethe Center for Theoretical Physics, Bonn |
| August–Oct., 2018 | Galileo Galilei Institute for Theoretical Physics, Florence |
| July–August, 2018 | Aspen Center for Physics |
| July, 2018 | CERN Theory Group |
| May, 2018 | Bethe Center for Theoretical Physics, Bonn |
| September, 2017 | Galileo Galilei Institute for Theoretical Physics, Florence |
| August–Sept., 2017 | Bethe Center for Theoretical Physics, Bonn |
| July–August, 2017 | Aspen Center for Physics |
| December, 2016 | Helsinki Institute of Physics |
| August, 2016 | Aspen Center for Physics |
| July–August, 2016 | CERN Theory Group |
| July, 2016 | Bethe Center for Theoretical Physics, Bonn |
| March–June, 2016 | Kavli Institute for Theoretical Physics, Santa Barbara |
| September, 2015 | Galileo Galilei Institute for Theoretical Physics, Florence |
| July–August, 2015 | Aspen Center for Physics |
| July, 2015 | CERN Theory Group |
| June, 2015 | Bethe Center for Theoretical Physics, Bonn |
| September, 2014 | Bethe Center for Theoretical Physics, Bonn |
| August, 2014 | Aspen Center for Physics |
| July, 2014 | Mainz Institute for Theoretical Physics (MITP), Mainz |
| June, 2014 | Bethe Center for Theoretical Physics, Bonn |
| Jan.–June, 2014 | Lawrence Berkeley National Laboratory, Theoretical Physics Group and Particle Data Group |
| Sept.–Dec., 2013 | Lawrence Berkeley National Laboratory, Particle Data Group |
| September, 2013 | Bethe Center for Theoretical Physics, Bonn |
| August, 2013 | Aspen Center for Physics |
| December, 2012 | Kavli Institute for Theoretical Physics, Santa Barbara |
| September, 2012 | Bethe Center for Theoretical Physics, Bonn |
| August, 2012 | Aspen Center for Physics |

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| September, 2011 | Bethe Center for Theoretical Physics, Bonn |
| August, 2011 | CERN Theory Group |
| June–July, 2011 | Aspen Center for Physics |
| Aug.–Dec., 2010 | Bethe Center for Theoretical Physics, Bonn |
| June–July, 2010 | Aspen Center for Physics |
| September, 2009 | Bethe Center for Theoretical Physics, Bonn |
| August, 2009 | CERN Theory Group |
| July, 2009 | Aspen Center for Physics |
| November, 2008 | Bethe Center for Theoretical Physics, Bonn |
| July–August, 2008 | Aspen Center for Physics |
| June–July, 2008 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| March–April, 2008 | Kavli Institute for Theoretical Physics, Santa Barbara |
| August, 2007 | CERN Theory Group |
| July, 2007 | Aspen Center for Physics |
| Sept.–Nov., 2006 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| August, 2006 | Aspen Center for Physics |
| March, 2006 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| August, 2005 | Aspen Center for Physics |
| July, 2005 | IPPP, Durham, England |
| June, 2005 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| August, 2004 | CERN Theory Group |
| June–July, 2004 | Aspen Center for Physics |
| June–July, 2003 | Aspen Center for Physics |
| Jan.–March, 2003 | Institute for Particle Physics Phenomenology (IPPP), Durham, England |
| September, 2002 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| July–August, 2002 | Aspen Center for Physics |
| June–July, 2002 | CERN Theory Group |
| July, 2001 | Aspen Center for Physics |
| June, 2001 | Universidad Autónoma de Madrid |
| Feb.–Apr., 2001 | Oxford University |
| Jan.–Feb., 2001 | Rheinische Friedrich-Wilhelms-Universität Bonn |
| August, 2000 | Aspen Center for Physics |
| July, 2000 | CERN Theory Group |
| September, 1999 | Rutherford Laboratory Theory Group |
| Aug.–Sept., 1999 | CERN Theory Group |
| July, 1999 | Aspen Center for Physics |
| Sept.–Dec., 1998 | Fermilab Theory Group |
| August, 1998 | CERN Theory Group |
| July, 1998 | Rutherford Laboratory Theory Group |

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|-------------------|---|
| August, 1997 | Aspen Center for Physics |
| June–July, 1997 | CERN Theory Group |
| March, 1997 | Consejo Superior de Investigaciones Científicas, Madrid |
| September, 1996 | Max-Planck-Institut für Physik, Munich |
| August, 1996 | CERN Theory Group |
| June–July, 1996 | Aspen Center for Physics |
| September, 1995 | Institute for Theoretical Physics, Univ. of California, Santa Barbara |
| April, 1995 | Weizmann Institute, Rehovot, Israel |
| Jan.–Sept., 1995 | Scientific Associate, CERN Theory Group |
| August, 1994 | Aspen Center for Physics |
| Jan.–March, 1994 | Institute for Theoretical Physics, Univ. of California, Santa Barbara |
| July, 1993 | Aspen Center for Physics |
| July, 1992 | Aspen Center for Physics |
| July–August, 1991 | Aspen Center for Physics |
| September, 1990 | CERN Theory Group |
| July, 1990 | Aspen Center for Physics |
| March, 1990 | Institute for Theoretical Physics, Univ. of California, Santa Barbara |
| August, 1989 | Aspen Center for Physics |
| September, 1988 | Laboratoire de Physique Mathématique, Université des Sciences et Techniques du Languedoc, Montpellier, France |
| May, 1988 | Institute for Theoretical Physics, Univ. of California, Santa Barbara |
| June, 1987 | Theoretische Physik, ETH Hönggerberg, Zurich, Switzerland |
| April–July, 1985 | University of Oregon |
| 1982–present | Visiting Physicist, Theory Group, Stanford Linear Accelerator Center |

Panels and Working Groups

| | |
|-------------|---|
| 2017 | co-convener of the Higgs/EW/BSM session of the Americas Workshop on Linear Colliders 2017 (AWLC2017) |
| 2015–2016 | co-convener of the Higgs session of the KITP workshop, “Experimental Challenges for the LHC Run II” |
| 2014 | co-convener of the Higgs/Electroweak Symmetry Breaking Working Group, Americas Workshop on Linear Colliders (AWLC14) |
| 2014 | founding member of the Precision SUSY Higgs Mass Calculation Initiative |
| 2013 | co-convener of the Higgs/EWSB Working Group, International Conference on Future Linear Colliders (LCWS-13) |
| 2007 | co-convener of the Higgs Working Group for the Workshop on “The LHC early phase for the ILC” |
| 2005–2006 | co-convener of the CP violation in 2HDM working group, Workshop on CP Studies and Non-Standard Higgs Physics (CPNSH) |
| April, 2004 | co-convener of the Higgs and Electroweak Symmetry Breaking Working Group, International Conference on Future Linear Colliders (LCWS-04) |

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| 2003–2004 | co-editor of the LHC/ILC Study Group |
| 2000–2004 | co-convener of the Higgs Working Group, American Linear Collider Physics Group |
| July, 2001 | co-convener of the Snowmass 2001 Working Group on Electroweak Symmetry Breaking |
| October, 1998 | co-convener of the “Is it really top? Is it only top?” Discussion Group, Top-Quark Physics for Tevatron Run II Thinkshop |
| March–Dec., 1998 | co-convener of the Higgs Working Group, Tevatron Run II Workshop |
| June–July, 1996 | co-convener of the Light Higgs Boson Working Group, Snowmass Workshop on New Directions for High Energy Physics |
| 1995 | co-convener of the Higgs Boson Working Group, European Workshop on Future e^+e^- Linear Colliders |
| 1994–1995 | co-convener of the <i>Electroweak Symmetry Breaking and Beyond the Standard Model Working Group</i> , for the DPF Long Range Planning Study |
| 1990–1991 | member of SLAC working group on the Next Linear Collider |
| January, 1989 | co-leader of <i>Higgs Boson Working Group</i> at the Workshop on High Energy Physics Phenomenology, Tata Institute for Fundamental Research, Bombay, India |
| 1987–1988 | member of SLAC panel studying Opportunities and Requirements for Experimentation at a Very High-Energy e^+e^- Collider |
| July, 1987 | co-leader of <i>Non-minimal Higgs Boson Working Group</i> at the 1987 Berkeley Workshop on the SSC |
| March–Aug., 1985 | leader of <i>Beyond the Standard Model Working Group</i> at the 1985 Oregon Workshop on Supercollider Physics |
| June–July, 1984 | leader of <i>New W’s and Z’s Working Group</i> at the 1984 Snowmass Workshop on the SSC |

Conferences and Workshops Organized

| | |
|-----------|---|
| 2024–2025 | Co-Chair of the 32nd International Conference on Supersymmetry and Unification of Fundamental Interactions: Theory meets Experiment (SUSY 2025), at UC Santa Cruz |
| 2024–2025 | Co-Chair of the Pre-SUSY 2025 Symposium on Supersymmetry and Unification of Fundamental Interactions at UC Santa Cruz |
| 2022–2023 | Chair of the Organizing Committee of the Marcela–Carlos Fest, a symposium in honor of the 60th birthdays of Marcela Carena and Carlos Wagner, to be held at the University of Chicago and Fermilab, May 28–30, 2023 |
| 2022–2023 | Co-organizer of the Herbi Fest, a symposium in honor of the 60th birthday of Herbi Dreiner, to be held at the Bethe Center for Theoretical Physics in Bonn, Germany, March 27–28, 2023 |
| 2015 | Chairman of the Pre-SUSY 2015 Symposium on Supersymmetry and Unification of Fundamental Interactions at UC Davis |
| 2015 | Chairman of the SCIPP Reunion Theory Symposium |
| 2014–2015 | Member of the Local Organizing Committee of the 23rd International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY 2015) |

2014 co-convener of the Higgs Physics parallel sessions of the 37th International Conference on High Energy Physics (ICHEP-2014)

August, 2013 Aspen Center for Physics, co-organizer of the Workshop on Implications of LHC Higgs-Like Signals

2013 Member, Local Organizing Committee, Meeting of the Division of Particles and Fields of the American Physical Society (DPF 2013)

2012 co-organizer of Higgs Identification, KITP Rapid Response workshop, December 10–21, 2012 in Santa Barbara, CA

2011 Member, Program Committee for the International Workshop on Future Linear Colliders (LCWS11)

2010 Member, Local Organizing Committee of the 18th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY 2010)

2010 Chairman, West Coast LHC Theory meeting at UCSC, May 21, 2010

2007 Member, Program Committee, American Linear Collider Physics Group Workshop 2007 (ALCPG07)

January, 2007 Co-organizer of the Kane Symposium (in honor of Gordon Kane’s 70th Birthday), University of Michigan, Ann Arbor, MI, 19–20 January 2007

2006–2007 Member, Program Committee, Supersymmetry-2007 Conference, Karlsruhe, Germany

March, 2005 Co-chair of the Workshop on LHC/ILC Synergies, SLAC, Stanford, CA, 23 March 2005

2001–2002 Co-chair, Theoretical Advanced Study Institute (TASI-2002), Boulder, CO, 3–28 June 2002

2001–2002 Member, International Scientific Advisory Committee for the SUSY-02 Conference

July, 2001 Aspen Center for Physics, co-organizer of the Workshop on Electroweak Symmetry Breaking and TeV scale physics after LEP

1999–2000 Chairman, 5th International Symposium on Radiative Corrections (RADCOR 2000), Carmel, CA 11–15 September 2000

January, 1999 Co-chair, Parallel Session on Physics Beyond the Standard Model, DPF-99 Conference at UCLA

1998–1999 member, local organizing committee for the 1999 Lepton-Photon International Conference, Stanford University 9–14 August 1999

August, 1997 Aspen Center for Physics, co-organizer of the Workshop on New Physics at the Tevatron and LEP-2

1996–1997 member, International Scientific Advisory Committee for the SUSY-97 Conference

July–August, 1994 Aspen Center for Physics, co-organizer of the Workshop on Supersymmetry

February, 1994 Co-chairman of the Workshop on Electroweak Symmetry Breaking and TeV Scale Physics, held at the Institute for Theoretical Physics, Santa Barbara.

January, 1993 Aspen Winter Conference: Particle Physics from Supercolliders to the Planck Scale, Co-chairman of conference.

December, 1992 Workshop on Electroweak Symmetry Breaking at Colliding-Beam Facilities, Chairman of the workshop, held at U.C. Santa Cruz

| | |
|-------------------|---|
| July–August, 1991 | Aspen Center for Physics, co-organizer of the Workshop on CP Violation and Heavy Flavor Physics |
| January, 1990 | Meeting of the Division of Particles and Fields of the American Physical Society, Rice University, Houston, convener of Beyond the Standard Model mini-conference |
| August, 1988 | 24th International Conference on High Energy Physics, Munich, organizer of Beyond the Standard Model parallel session |
| January, 1988 | U.C. Davis Workshop on Higgs Boson Physics, held at U.C. Davis, member of local organizing committee |
| June-July, 1986 | Theoretical Advanced Study Institute, held at U.C. Santa Cruz, member of local organizing committee and editor of Proceedings |
| August, 1985 | Gordon Conference on Particle Physics, organizer of the Electroweak Theory Session |
| August, 1984 | Physics in Collision IV, held at U.C. Santa Cruz, member of local organizing committee |
| March, 1983 | Theoretical Symposium on Intense Sources of High Energy Physics, held at U.C. Santa Cruz, member of local organizing committee and co-editor of Proceedings |

Referee

| | |
|--------------|---|
| 2011–present | Peer-review Referee for the Israel Science Foundation grant proposals. |
| 1985–present | Peer-review Referee for Department of Energy grant proposals. |
| 1984–present | Peer-review Referee for National Science Foundation grant proposals. |
| 1980–present | Peer-review referee for professional journals: <i>Physical Review Letters</i> , <i>Physical Review D</i> , <i>Physics Letters B</i> , <i>Nuclear Physics B</i> , <i>Physics Reports</i> , <i>International Journal of Modern Physics A</i> , <i>Modern Physics Letters A</i> , <i>Zeitschrift für Physik C</i> , <i>European Physical Journal C</i> , <i>JHEP</i> , <i>SciPost Physics</i> , <i>Proceedings of Science</i> , and <i>Europhysics Letters</i> . |

TEACHING 2023–2024

| | | | Enrollment | Shared? |
|--------|--------------|---------------------|------------|---------|
| Fall | Physics 195B | Senior Thesis II | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Winter | Physics 195B | Senior Thesis III | 1 | no |
| | Physics 214 | Electromagnetism II | 10 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Spring | Physics 297B | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |

TEACHING 2022–2023

| | | | Enrollment | Shared? |
|--------|--------------|---------------------------------|------------|---------|
| Fall | Physics 299B | Thesis Research | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 10 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Spring | Physics 195A | Senior Thesis I | 1 | no |
| | Physics 251 | Group Theory and Modern Physics | 7 | no |
| | Physics 299B | Thesis Research | 1 | no |

TEACHING 2021–2022

| | | | | |
|--------|--------------|---------------------|----|----|
| Fall | Physics 299B | Thesis Research | 2 | no |
| Winter | Physics 214 | Electromagnetism II | 16 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Spring | Physics 299B | Thesis Research | 2 | no |

TEACHING 2020–2021

| | | | | |
|--------|--------------|-------------------|---|----|
| Fall | Physics 297B | Independent Study | 1 | no |
| | Physics 297C | Independent Study | 1 | no |
| Winter | Physics 297B | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Spring | Physics 299B | Thesis Research | 2 | no |

TEACHING 2019–2020

| | | | | |
|--------|--------------|---------------------------------|----|----|
| Fall | Physics 116A | Mathematical Methods in Physics | 69 | no |
| | Physics 297B | Independent Study | 2 | no |
| Winter | Physics 297B | Independent Study | 1 | no |
| | Physics 297C | Independent Study | 1 | no |
| Spring | Physics 222 | Quantum Field Theory III | 4 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |

TEACHING 2018–2019

| | | | | |
|--------|--------------|-------------------|---|----|
| Summer | Physics 297A | Independent Study | 1 | no |
| Fall | Physics 297B | Independent Study | 1 | no |
| | Physics 297C | Independent Study | 1 | no |

| | | | Enrollment | Shared? |
|---------------------------|--------------|-----------------------------------|------------|---------|
| Winter | Physics 297B | Independent Study | 2 | no |
| Spring | Physics 251 | Group Theory and Modern Physics | 11 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |
| TEACHING 2017–2018 | | | | |
| Summer | Physics 297A | Independent Study | 1 | no |
| Fall | Physics 297B | Independent Study | 1 | no |
| Winter | Physics 215 | Introduction to Quantum Mechanics | 15 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |
| Spring | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |
| TEACHING 2016–2017 | | | | |
| Fall | Physics 217 | Quantum Field Theory I | 10 | no |
| Winter | Physics 214 | Electromagnetism II | 19 | no |
| | Physics 215 | Introduction to Quantum Mechanics | 21 | no |
| Spring | Physics 251 | Group Theory and Modern Physics | 14 | no |
| TEACHING 2015–2016 | | | | |
| Fall | Physics 171 | General Relativity | 22 | no |
| | Physics 299A | Thesis Research | 1 | no |
| Winter | Physics 218 | Advanced Quantum Field Theory | 9 | no |
| TEACHING 2014–2015 | | | | |
| Fall | Physics 171 | General Relativity | 21 | no |
| | Physics 297B | Independent Study | 1 | no |
| | Physics 299A | Thesis Research | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Winter | Physics 218 | Advanced Quantum Field Theory | 4 | no |
| | Physics 299B | Thesis Research | 3 | no |

| | | | Enrollment | Shared? |
|---------------------------|--------------|---------------------------------|------------|---------|
| Spring | Physics 251 | Group Theory and Modern Physics | 5 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| TEACHING 2013–2014 | | | | |
| Fall | Physics 297A | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Winter | Physics 297A | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Spring | Physics 297A | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| TEACHING 2012–2013 | | | | |
| Fall | Physics 116C | Mathematical Methods in Physics | 77 | no |
| | Physics 299A | Thesis Research | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 7 | no |
| | Physics 297A | Independent Study | 3 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Spring | Physics 251 | Group Theory and Modern Physics | 6 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| TEACHING 2011–2012 | | | | |
| Fall | Physics 116C | Mathematical Methods in Physics | 67 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 11 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 299A | Thesis Research | 1 | no |
| Spring | Physics 216 | Non-Rel. Quantum Mechanics II | 11 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 299A | Thesis Research | 1 | no |
| TEACHING 2010–2011 | | | | |
| Fall | Physics 297A | Independent Study | 2 | no |

| | | | Enrollment | Shared? |
|---------------------------|--------------|---------------------------------|------------|---------|
| Winter | Physics 116A | Mathematical Methods in Physics | 77 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 1 | no |
| Spring | Physics 251 | Group Theory and Modern Physics | 7 | no |
| | Physics 297A | Independent Study | 2 | no |
| TEACHING 2009–2010 | | | | |
| Fall | Physics 139B | Quantum Mechanics II | 13 | no |
| | Physics 291C | Particle Physics Seminar | 4 | no |
| Winter | Physics 116A | Mathematical Methods in Physics | 69 | no |
| Spring | Physics 216 | Non-Rel. Quantum Mechanics II | 14 | no |
| | Physics 291C | Particle Physics Seminar | 7 | no |
| TEACHING 2008–2009 | | | | |
| Fall | Physics 291C | Particle Physics Seminar | 4 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Winter | Physics 5B | Introduction to Physics II | 151 | no |
| | Physics 299B | Thesis Research | 1 | no |
| Spring | Physics 251 | Group Theory and Mod. Physics | 4 | no |
| | Physics 291C | Particle Physics Seminar | 5 | no |
| | Physics 299B | Thesis Research | 1 | no |
| TEACHING 2007–2008 | | | | |
| Summer | Physics 299A | Thesis Research | 1 | no |
| Fall | Physics 212 | Electromagnetism I | 13 | no |
| | Physics 291C | Particle Physics Seminar | 8 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Winter | Physics 5B | Introduction to Physics II | 146 | no |
| | Physics 297B | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |
| Spring | Physics 222 | Quantum Field Theory III | 6 | no |
| | Physics 297B | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 2 | no |

TEACHING 2006–2007

| | | | Enrollment | Shared? |
|--------|--------------|---------------------|------------|---------|
| Summer | Physics 299A | Thesis Research | 1 | no |
| Fall | Physics 299B | Thesis Research | 1 | no |
| | Physics 299C | Thesis Research | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 12 | no |
| | Physics 297B | Independent Study | 1 | no |
| | Physics 299B | Thesis Research | 1 | no |
| | Physics 299C | Thesis Research | 1 | no |
| Spring | Physics 251 | Group Theory | 7 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |

TEACHING 2005–2006

| | | | | |
|--------|--------------|---------------------------------|----|----|
| Summer | Physics 297A | Independent Study | 1 | no |
| Fall | Physics 217 | Quantum Field Theory I | 8 | no |
| | Physics 297B | Independent Study | 2 | no |
| Winter | Physics 116A | Mathematical Methods in Physics | 62 | no |
| | Physics 297A | Independent Study | 1 | no |
| | Physics 297B | Independent Study | 2 | no |
| Spring | Physics 222 | Quantum Field Theory III | 4 | no |
| | Physics 297B | Independent Study | 1 | no |
| | Physics 299C | Thesis Research | 1 | no |

TEACHING 2004–2005

| | | | | |
|--------|---------------|------------------------------|----|----|
| Fall | Physics 217 | Quantum Field Theory I | 9 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Winter | Astronomy 202 | Electromagnetism and Plasmas | 8 | no |
| | Physics 213 | Electromagnetism and Plasmas | 18 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 222 | Quantum Field Theory III | 4 | no |
| | Physics 297 | Independent Study | 2 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 2003–2004

| | | | Enrollment | Shared? |
|--------|-------------|--------------------------|------------|---------|
| Fall | Physics 171 | General Relativity | 19 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 14 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 222 | Quantum Field Theory III | 10 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 2002–2003

| | | | | |
|--------|-------------|-------------------|---|----|
| Fall | Physics 199 | Tutorial | 1 | no |
| | Physics 297 | Independent Study | 1 | no |
| Winter | Sabbatical | | | |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 251 | Group Theory | 5 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 2001–2002

| | | | | |
|--------|-------------|--------------------|----|----|
| Fall | Physics 171 | General Relativity | 12 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Winter | Sabbatical | | | |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Sabbatical | | | |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 2000–2001

| | | | | |
|--------|-------------|------------------------|----|----|
| Fall | Physics 217 | Quantum Field Theory I | 10 | no |
| Winter | Sabbatical | | | |
| Spring | Physics 216 | Quantum Mechanics II | 12 | no |
| | Physics 297 | Independent Study | 1 | no |

TEACHING 1999–2000

| | | | Enrollment | Shared? |
|--------|-------------|------------------------|------------|---------|
| Fall | Physics 217 | Quantum Field Theory I | 2 | no |
| Winter | Physics 112 | Therm. and Stat. Mech. | 36 | no |
| | Physics 214 | Electromagnetism II | 10 | no |
| | Physics 297 | Independent Study | 1 | no |
| Spring | Physics 223 | Strong Interactions | 5 | no |
| | Physics 199 | Tutorial | 2 | no |

TEACHING 1998–1999

| | | | | |
|--------|-------------|------------------------|----|----|
| Summer | Physics 299 | Thesis Research | 1 | no |
| Fall | Physics 299 | Thesis Research | 1 | no |
| Winter | Physics 112 | Therm. and Stat. Mech. | 24 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 251 | Group Theory | 5 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 1997-98

| | | | | |
|--------|-------------|---------------------|----|----|
| Fall | Physics 212 | Electromagnetism I | 7 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Winter | Physics 214 | Electromagnetism II | 11 | no |
| | Physics 14 | Vector Calculus | 11 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 223 | Strong Interactions | 3 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 1996–1997

| | | | | |
|--------|--------------|--------------------------|---|----|
| Fall | Physics 139B | Quantum Mechanics II | 5 | no |
| | Physics 297 | Independent Study | 1 | no |
| Winter | Physics 218 | Quantum Field Theory II | 5 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 222 | Electroweak Interactions | 8 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 1995–1996

| | | | Enrollment | Shared? |
|--------|--------------|----------------------------|------------|---------|
| Fall | Physics 114B | Math. Meth. in Physics II | 26 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| | Physics 301 | Supervised Teaching | 1 | no |
| Winter | Physics 218 | Quantum Field Theory II | 7 | no |
| | Physics 14 | Vector Calculus | 14 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 217 | Quantum Field Theory I | 10 | no |
| | Physics 199 | Undergrad. Thesis Research | 1 | no |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |

TEACHING 1994–1995

| | | | | |
|--------|--------------|---------------------------|----|-----|
| Fall | Physics 10 | Overview of Physics | 82 | yes |
| | Physics 114B | Math. Meth. in Physics II | 51 | no |
| | Physics 297 | Independent Study | 3 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 3 | no |
| | Physics 301 | Supervised Teaching | 1 | no |
| Winter | Sabbatical | | | |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |
| Spring | Sabbatical | | | |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |

TEACHING 1993–1994

| | | | | |
|------|-------------|--------------------------|---|----|
| Fall | Physics 215 | Quantum Mechanics I | 8 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 2 | no |
| | Physics 205 | Introduction to Research | 7 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 3 | no |

| | | | Enrollment | Shared? |
|---------------------------|-------------|----------------------------|------------|---------|
| Spring | Physics 223 | Strong Interactions | 7 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |
| TEACHING 1992–1993 | | | | |
| Fall | Physics 215 | Quantum Mechanics I | 18 | no |
| | Physics 298 | Research Project | 3 | no |
| Winter | Physics 251 | Group Theory | 9 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |
| Spring | Physics 3 | Concepts of Modern Physics | 8 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |
| | Physics 301 | Supervised Teaching | 1 | no |
| TEACHING 1991–1992 | | | | |
| Fall | Physics 212 | Electromagnetism I | 10 | no |
| | Physics 297 | Independent Study | 6 | no |
| | Physics 298 | Research Project | 3 | no |
| | Physics 299 | Thesis Research | 3 | no |
| Winter | Physics 3 | Concepts of Modern Physics | 25 | no |
| | Physics 297 | Independent Study | 4 | no |
| | Physics 298 | Research Project | 3 | no |
| | Physics 299 | Thesis Research | 2 | no |
| Spring | Physics 217 | Quantum Field Theory I | 9 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 3 | no |
| | Physics 299 | Thesis Research | 2 | no |
| TEACHING 1990–1991 | | | | |
| Fall | Physics 212 | Electromagnetism I | 13 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 2 | no |

| | | | Enrollment | Shared? |
|---------------------------|-------------|---------------------------|------------|---------|
| Winter | Physics 251 | Group Theory | 13 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 298 | Research Project | 1 | no |
| | Physics 299 | Thesis Research | 2 | no |
| Spring | Physics 217 | Quantum Field Theory I | 7 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 2 | no |
| TEACHING 1989–1990 | | | | |
| Fall | Physics 218 | Quantum Field Theory II | 6 | no |
| | Physics 297 | Independent Study | 4 | no |
| | Physics 298 | Research Project | 3 | no |
| Winter | Physics 216 | Quantum Mechanics II | 13 | no |
| | Physics 297 | Independent Study | 4 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 223 | Strong Interactions | 4 | no |
| | Physics 297 | Independent Study | 3 | no |
| | Physics 298 | Research Project | 2 | no |
| | Physics 299 | Thesis Research | 1 | no |
| TEACHING 1988–1989 | | | | |
| Fall | Physics 218 | Quantum Field Theory II | 7 | no |
| | Physics 297 | Independent Study | 2 | no |
| Winter | Physics 216 | Quantum Mechanics II | 7 | no |
| | Physics 297 | Independent Study | 5 | no |
| Spring | Physics 251 | Group Theory | 9 | no |
| | Physics 297 | Independent Study | 4 | no |
| | Physics 298 | Research Project | 2 | no |
| TEACHING 1987–1988 | | | | |
| Fall | Physics 215 | Quantum Mechanics I | 11 | no |
| | Physics 297 | Independent Study | 2 | no |
| Winter | Physics 15 | Stat. Physics and Thermo. | 35 | no |
| | Physics 297 | Independent Study | 2 | no |
| | Physics 301 | Supervised Teaching | 1 | no |

| | | | Enrollment | Shared? |
|---------------------------|--------------|----------------------|------------|---------|
| Spring | Physics 297 | Independent Study | 1 | no |
| TEACHING 1986–1987 | | | | |
| Fall | Physics 215 | Quantum Mechanics I | 8 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Winter | Physics 216 | Quantum Mechanics II | 7 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| Spring | Physics 297 | Independent Study | 1 | no |
| | Physics 299 | Thesis Research | 1 | no |
| TEACHING 1985–1986 | | | | |
| Winter | Physics 223 | Strong Interactions | 6 | no |
| Spring | Physics 299 | Thesis Research | 1 | no |
| TEACHING 1984–1985 | | | | |
| Fall | Physics 139A | Quantum Mechanics I | 30 | no |
| | Physics 297 | Independent Study | 1 | no |
| | Physics 301 | Supervised Teaching | 1 | no |
| Winter | Physics 139B | Quantum Mechanics II | 11 | no |
| | Physics 297 | Independent Study | 3 | no |
| TEACHING 1983–1984 | | | | |
| Winter | Physics 290 | Special Topics | 5 | no |
| TEACHING 1982–1983 | | | | |
| Fall | Physics 215 | Quantum Mechanics | 7 | no |

MISCELLANEOUS UNDERGRADUATE TEACHING

| | | | |
|-----------|------------|---------------------|----------------------|
| Fall 2005 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 2004 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 2002 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 1993 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 1992 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 1991 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 1990 | Physics 10 | Overview of Physics | contributing lecture |
| Fall 1989 | Physics 10 | Overview of Physics | contributing lecture |

PHYSICS COLLOQUIA GIVEN (2009–present)

| | | |
|----------------|---|-----------------------|
| April 10, 2024 | Higgs Boson Physics: The View Ahead | Univ. Federal do ABC |
| Oct. 24, 2017 | Does the Higgs boson portend the end of particle physics? | Ohio State University |
| Oct. 3, 2017 | Does the Higgs boson portend the end of particle physics? | National Taiwan Univ. |
| Nov. 29, 2012 | The Higgs Boson Unleashed | UC Santa Cruz |
| Nov. 19, 2012 | The Higgs Boson Unleashed | Univ. Southern Cal. |
| Oct. 29, 2012 | The Higgs Boson Unleashed | Sonoma State Univ. |
| Nov. 19, 2010 | The Higgs Hunter’s Guide at the Dawn of the LHC Era | Univ. Heidelberg |
| Nov. 5, 2009 | The Higgs Hunter’s Guide at the Dawn of the LHC Era | UC Santa Cruz |
| Oct. 29, 2009 | The Higgs Hunter’s Guide at the Dawn of the LHC Era | Cal. Poly State Univ. |

OTHER TEACHING

| | | |
|-----------------|---|--------------|
| July, 2023 | Pre-SUSY 2023 | (2 Lectures) |
| August, 2021 | 49th SLAC Summer Institute, “The Higgs State Fair” | (1 Lecture) |
| August, 2019 | 2019 Sorak Symposium | (2 Lectures) |
| August, 2018 | 46th SLAC Summer Institute, “Standard Model at 50” | (1 Lecture) |
| June, 2016 | Pre-SUSY 2016 | (3 Lectures) |
| June, 2016 | Theoretical Advanced Study Institute, Boulder, Colorado | (4 Lectures) |
| July, 2012 | 40th SLAC Summer Institute, “The Electroweak Scale” | (2 Lectures) |
| September, 2011 | IDPASC Higgs School, Foz do Arelho, Portugal, | (2 Lectures) |
| August, 2008 | CERN-Fermilab Hadron Collider Physics Summer School | (2 Lectures) |
| August, 2004 | PSI Zuoz Summer School on Particle Physics, Zuoz, Switzerland | (5 Lectures) |
| June, 2004 | Theoretical Advanced Study Institute, Boulder, Colorado | (4 Lectures) |
| September, 2002 | Herbstschule für Hochenergiephysik Maria Laach | (4 Lectures) |
| June, 2001 | Trieste Summer School on High Energy Physics | (4 Lectures) |
| November, 1999 | SCIPP Outreach Physics Workshop | (1 Lecture) |
| June, 1997 | Trieste Summer School in High Energy Physics and Cosmology | (4 Lectures) |
| July, 1995 | Institut für Theoretische Teilchenphysik, Karlsruhe, Germany | (3 Lectures) |
| July, 1994 | Eötvös Summer School Graduate Courses, Budapest, Hungary | (3 Lectures) |
| August, 1993 | XXI SLAC Summer Institute on Particle Physics | (3 Lectures) |
| June, 1992 | Theoretical Advanced Study Institute, Boulder, Colorado | (3 Lectures) |
| August, 1990 | Mt. Sorak Summer School on Theoretical Physics, South Korea | (2 Lectures) |
| June, 1990 | Theoretical Advanced Study Institute, Boulder, Colorado | (6 Lectures) |

UCSC COURSE WEB PAGES

| | | |
|--------------|--------------|---|
| Winter, 2024 | Physics 214 | http://scipp.ucsc.edu/~haber/ph214/ |
| Spring, 2023 | Physics 251 | http://scipp.ucsc.edu/~haber/ph251/ |
| Winter, 2023 | Physics 214 | http://scipp.ucsc.edu/~haber/archives/physics214_23/ |
| Winter, 2022 | Physics 214 | http://scipp.ucsc.edu/~haber/archives/physics214_22/ |
| Spring, 2020 | Physics 222 | http://scipp.ucsc.edu/~haber/ph222/ |
| Fall 2019 | Physics 116A | http://scipp.ucsc.edu/~haber/ph116A/ |
| Spring, 2019 | Physics 251 | http://scipp.ucsc.edu/~haber/archives/physics251_19/ |
| Winter, 2018 | Physics 215 | http://scipp.ucsc.edu/~haber/ph215/ |
| Spring, 2017 | Physics 251 | http://scipp.ucsc.edu/~haber/archives/physics251_17/ |
| Winter, 2017 | Physics 215 | http://scipp.ucsc.edu/~haber/archives/physics215_17/ |
| Winter, 2017 | Physics 214 | http://scipp.ucsc.edu/~haber/archives/physics214_17/ |
| Fall, 2016 | Physics 217 | http://scipp.ucsc.edu/~haber/ph217/ |
| Winter, 2016 | Physics 218 | http://scipp.ucsc.edu/~haber/ph218/ |
| Fall, 2015 | Physics 171 | http://scipp.ucsc.edu/~haber/ph171/ |
| Spring, 2015 | Physics 251 | http://scipp.ucsc.edu/~haber/archives/physics251_15/ |
| Winter, 2015 | Physics 218 | http://scipp.ucsc.edu/~haber/archives/physics218_15/ |
| Fall, 2014 | Physics 171 | http://scipp.ucsc.edu/~haber/archives/physics171_14/ |
| Spring, 2013 | Physics 251 | http://scipp.ucsc.edu/~haber/archives/physics251_13/ |
| Winter, 2013 | Physics 214 | http://scipp.ucsc.edu/~haber/archives/physics214_13/ |
| Fall, 2012 | Physics 116C | http://scipp.ucsc.edu/~haber/ph116C/ |
| Spring, 2012 | Physics 216 | http://scipp.ucsc.edu/~haber/ph216/ |
| Winter, 2012 | Physics 214 | http://scipp.ucsc.edu/~haber/archives/physics214_12/ |
| Fall, 2011 | Physics 116C | http://scipp.ucsc.edu/~haber/archives/physics116C11/ |
| Spring, 2011 | Physics 251 | http://scipp.ucsc.edu/~haber/archives/physics251_11/ |
| Winter, 2011 | Physics 116A | http://scipp.ucsc.edu/~haber/archives/physics116A11/ |
| Spring, 2010 | Physics 216 | http://scipp.ucsc.edu/~haber/archives/physics216_10/ |
| Winter, 2010 | Physics 116A | http://scipp.ucsc.edu/~haber/archives/physics116A10/ |
| Fall, 2009 | Physics 139B | http://scipp.ucsc.edu/~haber/ph139B/ |
| Winter, 2009 | Physics 5B | http://scipp.ucsc.edu/~haber/ph5B/ |
| Winter, 2008 | Physics 5B | http://scipp.ucsc.edu/~haber/archives/physics5B08/ |
| Winter, 2006 | Physics 116A | http://scipp.ucsc.edu/~haber/archives/physics116A06/ |
| Fall, 2003 | Physics 171 | http://scipp.ucsc.edu/~haber/archives/physics117_03/ |
| Fall, 2001 | Physics 171 | http://scipp.ucsc.edu/~haber/archives/physics117_01/ |
| Winter, 2000 | Physics 112 | http://scipp.ucsc.edu/~haber/ph112/ |

MISCELLANEOUS GRADUATE TEACHING

1990–1993 Co-organizer of Research Opportunities in Physics Seminar Series

THESIS ADVISING

Advisor or co-advisor of completed Ph.D. Thesis

2024 Joseph Connell “Theory and Phenomenology of Two-Higgs-Doublet Models with Flavor-Aligned and Six-Texture Yukawa Couplings”

| | | |
|------|---------------------------|--|
| 2017 | Laurel Stephenson-Haskins | “Supersymmetry, Inflation, and Dark Matter” |
| 2015 | Laura Fava | “Precision Measurement of the Strong Coupling Constant of the Minimal Universal Extra Dimensions Model Using Like-sign Leptons at the LHC” |
| 2015 | Edward Santos | “Renormalization Group Constraints on the Two Higgs Doublet Model” |
| 2009 | Deva O’Neil | “Phenomenology of the Basis-Independent CP-Violating Two-Higgs Doublet Model” |
| 2008 | John Mason | “Aspects of Supersymmetry Breaking” |
| 2005 | Douglas Pahel | “CP violating effects in W and Z boson pair productions at the International Linear Collider in the minimal supersymmetric standard model” |
| 1999 | Heather Logan | “Radiative corrections to the $Zb\bar{b}$ vertex and constraints on extended Higgs sectors” |
| 1995 | John Hiser | “A Triplet Supersymmetric Model” |
| 1992 | Marco Diaz | “Radiative Corrections to Higgs Masses in the MSSM” |
| 1992 | Ralf Hempfling | “Radiative Corrections to the Higgs Sector in the Minimal Supersymmetric Model” |
| 1991 | Paulo Gomes | “Charged Higgs Decays into $W\gamma$ and WZ in the Minimal Supersymmetric Model” |
| 1987 | Kim Griest | “Stable, Heavy, Neutral Particles in the Sun and in Toponium Decay” |

Technical Advisor of Senior Thesis

| | | |
|------|-----------------|---|
| 2016 | Jason E. Cohen | “An Exploration of General Relativistic Bending of Light, Lensing and Orbital Motion Through the Presentation of Visual Simulations” |
| 2012 | Matthew Stanton | “Vector Boson Scattering Processes at the Upgraded LHC” |
| 2012 | Kevin Goldberg | “Let’s Go Sailing!” |
| 2008 | James Beacham | “A comparison of the fermionic overlap-Dirac operator and pure gauge field definitions of the quenched topological susceptibility in the Schwinger model” |
| 1998 | Jacob Mannix | “Models of Supersymmetry Breaking” |
| 1996 | Robert Gingrich | “Particles Leading to Grand Unification” |
| 1987 | Michael Bourne | “Non-Relativistic Determination of the Toponium Spectrum and Transmission Rates” |
| 1986 | Karl Offen | “The Physics of a Tennis Racket” |

GRADUATE STUDENTS SUPERVISED

| | |
|--------------|--------------------------|
| 2017-present | Eric Shahly |
| 2017-2024 | Joseph Connell |
| 2013–2016 | Laurel Stevenson-Haskins |
| 2009–2015 | Edward Santos |
| 2009–2015 | Laura Fava |
| 2005–2009 | Deva O’Neill |
| 2006–2008 | Heath Holguin |

2004–2008 John Mason
 2001–2005 Douglas Pahel
 2001–2002 Fred Cauthen
 1998–2000 Erik Kramer
 1994–1999 Heather Logan
 1993–1995 Per Lasse Reinertsen
 1992–1995 John Hiser
 1992–1993 Rick Rennels
 1989–1995 Carlos Figueroa
 1989–1992 Ralf Hempfling
 1989–1992 Marco Diaz
 1987–1991 Paulo Gomes
 1985–1987 Kim Griest

EXAM COMMITTEES

Ph.D. Oral Qualifying Exam Committee

Physics

2021 Joseph Connell
 2020 Eric Shahly
 2018 Logan Morrison
 2018 Amita Kuttner
 2016 Joseph Schindler
 2016 Adam Coogan
 2015 Di Xu
 2015 Laurel Stevenson-Haskins
 2012 Edward Santos
 2012 T.J. Torres
 2011 Laura Fava
 2011 Angelo Monteux
 2010 Lawrence Pack
 2010 Weitao Wu
 2010 John Kehayias
 2008 Lorenzo Ubaldi
 2007 Jeff Jones
 2006 Alex Morisse
 2006 John Mason
 2006 Deva O’Neil
 2006 Rudy Gilmore
 2003 Douglas Pahel
 2003 Sun Zheng
 2002 Erik Kramer
 2002 Michael Wilson
 2000 Josh Gray
 1999 Alexey Anissimov
 1998 Robert Echols

1997 Riko Wichmann
 1997 Rong Li
 1997 Douglas Epperson
 1996 Heather Logan
 1994 Yuriy Shirman
 1994 Jeffrey Rahn
 1993 John Bagnasco
 1992 Carlos Figueroa
 1992 Tom Yang
 1992 Judy Leslie
 1992 John Hiser
 1992 Xi Liu
 1992 Jaipal Tuttle
 1991 Ralf Hempfling
 1991 Marco Diaz
 1991 Douglas MacIntire
 1990 Scot Olivier
 1989 Paulo Gomes
 1988 John Drinkard
 1988 Corrado Gatto
 1986 Kim Griest

Mathematics

2023 Greyson Meyer
 2023 Maneesha Ampagouni
 2020 Nathan Marianovsky
 2014 Rob Carman
 2007 Chris Marks
 2006 Jennifer Mogel
 2002 David Raske
 1999 Robert Hartmann
 1997 Mark Hoyle
 1991 Yves Martin
 1990 Shu-xian Lou

Ph.D. THESIS DEFENSE COMMITTEE

2024 Joseph Connell
 2024 Miguel Bento (Instituto Superior Técnico, Universidade de Lisboa)
 2021 Logan Morrison
 2019 Joseph Schindler
 2018 Di Xu
 2017 Laurel Stevenson-Haskins
 2015 Laura Fava
 2015 Edward Santos
 2014 Angelo Monteux
 2012 Lawrence Pack

| | |
|------|-------------------|
| 2011 | Weitao Wu |
| 2011 | Lorenzo Ubaldi |
| 2009 | Jeff Jones |
| 2009 | Sean Echols |
| 2009 | Deva O’Neil |
| 2008 | John Mason |
| 2007 | Sun Zheng |
| 2005 | Douglas Pahel |
| 2004 | Erik Kramer |
| 2002 | Alexey Anissimov |
| 2001 | Josh Gray |
| 1999 | Riko Wichmann |
| 1999 | Rong Li |
| 1999 | Robert Echols |
| 1999 | Heather Logan |
| 1997 | Jeffrey Rahn |
| 1997 | Yuriy Shirman |
| 1995 | John Hiser |
| 1995 | Judy Leslie |
| 1994 | John Bagnasco |
| 1993 | Douglas MacIntire |
| 1993 | Jaipal Tuttle |
| 1992 | Ralf Hempfling |
| 1992 | Marco Diaz |
| 1991 | Scot Olivier |
| 1991 | Paulo Gomes |
| 1990 | John Drinkard |
| 1989 | Corrado Gatto |
| 1989 | Sterling Watson |
| 1987 | Rongsheng Xu |
| 1987 | Kim Griest |

SCIPP THEORY POST-DOCTORAL RESEARCH ASSOCIATES

| | |
|-----------|-------------------|
| 2023-2025 | Reuven Balkin |
| 2023-2025 | Sarah Geller |
| 2021–2024 | William DeRocco |
| 2020–2024 | Jeff Dror |
| 2018–2021 | Hiren Patel |
| 2015–2017 | Francesco D’Eramo |
| 2014–2017 | Tim Stefaniak |
| 2012–2015 | William Shepherd |
| 2011–2014 | Patrick Draper |
| 2010–2012 | Chang Soon Park |
| 2009–2011 | Sebastian Grab |
| 2007–2010 | Guido Festuccia |

2006–2009 Linda Carpenter
2005–2006 Andreas Birkedal
2004–2007 Assaf Shomer
2002–2005 Patrick Fox
2001–2004 Elie Gorbатов
1999–2002 Michael Graesser
1997–1998 Stephen Martin
1996–1997 Patrick Huet
1995–1997 Jens Erler
1993–1995 Carl Schmidt
1993–1994 Scott Thomas
1991–1993 Alex Pomarol
1991–1993 Robert Leigh
1991 C.P. Yuan
1987–1989 Joseph Lykken
1985–1986 Marc Sher