Curriculum Vitae — Scott A. Yost

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	Charleston, SC 29409		
Web Page	http://www.vic.com/syost/physics		

Academic Appointments

Assistant Professor	The Citadel	2008 –
Visiting Research Scholar	Princeton University	May – July 2009
Visiting Associate Professor	Princeton University	2007 – 2008
Associate Professor	Baylor University	2004 – 2007
Visiting Associate Professor	Baylor University	Fall 2003
Lecturer (Physics and Astronomy)	University of Tennessee	2002 – 2003
Research Associate Professor	University of Tennessee	1996 – 2002
Research Assistant Professor	University of Tennessee	1993 – 1996
Postdoctoral Associate	University of Tennessee	1991 – 1993
Postdoctoral Associate	University of Florida	1987 – 1991

Education

Princeton University*	Ph.D. in Physics	Oct. 1987
Carnegie-Mellon University†	B.S. in Physics	May 1982
Carnegie-Mellon University†	B.S. in Mathematics	May 1982

*N.S.F. Fellowship, 1982 – 1985, Joseph Henry Award, 1982.
Dissertation: *String Loops in Background Fields*

† graduated with University Honors; first rank in the Mellon College of Science.

Research Interests

Elementary particle physics and phenomenology, quantum field theory, the interface between experimental and theoretical particle physics

Grants

P.I., U.S. Department of Energy grant DE-PS02-09ER09-01	2010 – 2013
Citadel Foundation Research Grants	2009, 2010
Citadel Foundation Research Presentation Grants	2009, 2010
Citadel Foundation New Faculty Research Grant	2008
Co-P.I., U.S. Department of Energy grant DE-FG02-05ER41399 (with B.F.L. Ward and Jay Dittmann, Baylor University)	2005 – 2007

Teaching – The Citadel

	Course	Enrollment	Semester
Phy. 221	Physics with Calculus I	8	fall 2011
Phy. 271	Laboratory for Physics with Calculus I	20	fall 2011
Phy. 222	Physics with Calculus II	28	spring 2011
Phy. 272	Laboratory for Physics with Calculus II	26	spring 2011
Phy. 221	Physics with Calculus I	24	fall 2010
Phy. 271	Laboratory for Physics with Calculus I	32	fall 2010
Phy. 222	Physics with Calculus II	12	spring 2010
Phy. 272	Laboratory for Physics with Calculus II	9	spring 2010
Phy. 416	Advanced Topics in Physics	6	spring 2010
Phy. 221	Physics with Calculus I	44	fall 2009
Phy. 253	Laboratory for College Physics I	57	fall 2009
Phy. 222	Physics with Calculus II	16	spring 2009
Phy. 272	Laboratory for Physics with Calculus II	27	spring 2009
Phy. 416	Advanced Topics in Physics	4	spring 2009
Phy. 221	Physics with Calculus I	51	fall 2008
Phy. 253	Laboratory for College Physics I	41	fall 2008

Teaching – Princeton University

	Course	Enrollment	Semester
Phy. 104	General Physics II	43	spring 2008
Phy. 103	General Physics I	40	fall 2007

Teaching – Baylor University

	Course	Enrollment	Semester
Phy. 1422	General Physics I-A	105	spring 2007
Phy. 1422	General Physics I-A	7	fall 2006
Phy. 1422	General Physics I-A	105	spring 2006
Phy. 1422	General Physics I-A	37	fall 2005
Phy. 1422	General Physics I-A	44	spring 2005
Phy. 1422	General Physics I-A	27	fall 2004
Phy. 1425	General Physics I	13	spring 2004
Phy. 1425	General Physics I	33	fall 2003

Teaching – University of Tennessee

	Course	Enrollment	Semester
Phy. 222	Elements of Physics II	33	summer 2003
Ast. 162	Introduction to Astronomy II	124	spring 2003
Ast. 162	Introduction to Astronomy II (online course)	88	spring 2003
Ast. 162	Introduction to Astronomy II Laboratory	20	spring 2003
Phy. 101	How Things Work	114	fall 2002
Ast. 161	Introduction to Astronomy I	208	fall 2002
Ast. 161	Introduction to Astronomy I Laboratory	20	fall 2002
Phy. 222	Elements of Physics II	44	summer 2002
Phy. 221	Elements of Physics I Laboratory/Recitation	60	spring 2002
Phy. 221	Elements of Physics I Laboratory/Recitation	60	fall 2001

Professional Affiliations and Selected Service Activities

Member, Phi Kappa Phi and Sigma Pi Sigma honor societies		
Member, American Physical Society (APS) – Division of Particles and Fields		
Member, American Mathematical Society (AMS)		
Editorial Board, ISRN High Energy Physics journal		2011 –
Planning committee, Citadel Trebuchet competition		2010 – 2011
Judge for Science Fair, Academic Magnet High School		2010, 2011
Senior Advisor, Physics Department	Citadel	2009 – 2010
Faculty Council	Citadel	2010 –
Faculty Development Committee	Citadel	2009 –
Web Design Committee, Physics Department	Citadel	2009 – 2010
Judge for Citadel Undergraduate Research Conference		March 2009
Co-Advisor for Senior Thesis	Princeton	2007 – 08
Grader for Graduate Preliminary Exams	Princeton	2008
Judge of student presentations, TSAPS/AAPT/SPS Joint Conference, Univ. of Texas, Arlington		Oct. 2006
APS District Advocate		2005 – 2007
Supervised two REU summer research students	Baylor	2005
Chair, Physics Electronic Activities Committee	Baylor	2003 – 2007
Participant in APS Lobbying Day, Washington DC		June 2004
CAPA homework system development	Baylor	2003 – 2007
Faculty Advisor, Canoe and Hiking Club	Tennessee	2002 – 2003
CAPA homework system development	Tennessee	2002 – 2003
Member, World Wide Web Task Force	Tennessee	1995 – 1996
Assisted in supervising Ph.D. student M. Melles	Tennessee	1994 – 1995
Member, Local Organizing Committee, Tennessee International Symposium on Radiative Corrections (RADCOR-94)		1994
Member, UNIX System Administrators' Group	Tennessee	1994 – 2003

Publications

PDF files are available at http://www.vic.com/syost/physics/papers. According to the inSPIRE high energy physics database, these publications have 2290 citations, resulting in an author h-index of 18.

1. *The Epsilon Expansion of Feynman Diagrams via Hypergeometric Functions and Differential Reduction*, S.A. Yost, V.V. Bytev, M.Yu. Kalmykov, and B.A. Kniehl, *Proceedings of DPF 2011, Providence, July 9-13, 2011*, *SLAC Electronic Proceedings*, 2011, arXiv:1101.0210

2. *Differential Reduction Techniques for the Evaluation of Feynman Diagrams*, S.A. Yost, V.V. Bytev, M.Yu. Kalmykov, B.A. Kniehl, and B.F.L. Ward, *Proceedings of ICHEP 2010, Paris, France, 22-28 July, 2010*, *PoS (ICHEP2010)* (2010) 135, arXiv:1101.2348

3. *HERWIRI1.031: New Approach to Parton Shower MC's in Precision QCD Theory*, B.F.L. Ward and S.A. Yost, *Proceedings of ICHEP 2010, Paris, France, 22-28 July, 2010*, *PoS (ICHEP2010)* (2010) 127, arXiv:1012.2653

4. *Theoretical Uncertainties in Electroweak Boson Production Cross Sections at 7, 10, and 14 TeV at the LHC*, Nadia Adam, Valerie Halyo, and Scott A. Yost, *JHEP* **11** (2010) 074, arXiv:1006.3766

5. *MC Realization of IR-Improved DGLAP-CS Parton Showers: HERWIRI1.0*, S. Joseph, S. Majhi, B.F.L. Ward, and S.A. Yost, *Proceedings of RADCOR 2009*, Ascona, Switzerland, 25-30 Oct. 2009, *Mod. Phys. Lett.* **A25** (2010) 2207, arXiv:1001.2730

6. *New Approach to Parton Shower MC's for Precision QCD Theory: HERWIRI1.0(31)*, S. Joseph, S. Majhi, B.F.L. Ward, and S.A. Yost, *Phys. Rev.* **D81** (2010) 076008, arXiv:1001.1434

7. *HERWIRI1.0(2): MC Realization of IR-Improvement for DGLAP-CS Parton Showers*, B.F.L. Ward, S. Joseph, S. Majhi, and S.A. Yost, *Proceedings of DPF-2009*, Detroit, MI, eConf C090726 (2009), arXiv:0910.0491

8. *HERWIRI1.0(31): MC Realization of IR-Improved DGLAP-CS Parton Showers*, S. Joseph, S. Majhi, B.F.L. Ward, and S.A. Yost, *Phys. Lett.* **B685** (2010) 283-292, arXiv:0906.0788

9. *Proceedings of the Workshop: HERA and the LHC Series on the Implications of HERA for LHC Physics*, Z.J. Ajaltouni *et al.*, DESY-PROC-2009-02, SPIRES Conference C08/05/26.4, C07/03/12, C06/06/06.1 (2009),

arXiv:0903.3861 (inSPIRE "Well-known": 50+ citations)

10. *Differential Reduction Algorithms for Hypergeometric Functions Applied to Feynman Diagram Calculation*, V.V. Bytev, M. Kalmykov, Bernd A. Kniehl, B.F.L. Ward, and Scott A. Yost, *Proceedings of LCWS08/ILC08, International Linear Collider Workshop 2008*, Chicago, Nov. 16 – 20, 2008, arXiv:0902.1352

11. *Feynman Diagrams, Differential Reduction, and Hypergeometric Functions*, Mikhail Kalmykov, Vladimir V. Bytev, Bernd A. Kniehl, B.F.L. Ward, and Scott A. Yost, *Proceedings of ACAT 2008, XII International Workshop on Advanced Computing and Analysis Techniques in Physics Research*, Erice, Sicily, Nov. 3 – 7, 2008, arXiv:0901.4716

12. *Hypergeometric Functions, Their ε Expansions and Feynman Diagrams*, M. Yu. Kalmykov, Bernd A. Kniehl, B.F.L. Ward, and S.A. Yost, *Proceedings of Quarks-2008*, Sergiev Posad, Russia, May 23 – 29, 2008, arXiv:0810.3238

13. *Evaluation of the Theoretical Uncertainties in $W \to \ell\nu$ Cross Sections at the LHC*, N.E. Adam, Valerie Halyo, Scott A. Yost and Wen-Han Zhu, *JHEP* **09** (2008) 133, arXiv:0808.0758

14. *Precision QED⊗QCD Resummation Theory for LHC Physics: Status and Update*, B.F.L. Ward, S. Joseph, S. Majhi, and S.A. Yost, *Proceedings of Hera and the LHC*, CERN, Geneva, May 2008, arXiv:0808.3133

15. *Differential Reduction Algorithms for the All-Order ε-Expansion of Hypergeometric Functions*, S.A. Yost, M.Yu. Kalmykov and B.F.L. Ward*Proceedings of ICHEP-2008, the 34^{th} International Conference on High Energy Physics*, Philadelphia, July 29 – Aug. 5, 2008, arXiv:0808.2605

16. *Evaluation of the Theoretical Uncertainties in $Z \to \ell^+\ell^-$ Cross Sections at the LHC*, N.E. Adam, Valerie Halyo, and Scott A. Yost, *JHEP* **05** (2008) 062, arXiv:0802.3251

17. *New Developments in Precision LHC Theory: QED⊗QCD Exponentiation, Shower/ME Matching, IR-Improved DGLAP-CS Theory and Implications for UV Finite Quantum Gravity*, B.F.L. Ward and S.A. Yost, *PoS (RAD COR 2007)* 038, arXiv:0802.0724

18. *On the All-Order ε-Expansion of Generalized Hypergeometric Functions with Integer Values of Parameters*, M.Yu. Kalmykov, B.F.L. Ward, and S.A. Yost, *JHEP* **11** (2007) 009, arXiv:0708.0803

19. *Multiple (Inverse) Binomial Sums of Arbitrary Weight and Depth and the*

All Order ε-Expansion of Generalized Hypergeometric Functions with One Half-Integer Value of Parameter, M.Yu. Kalmykov, B.F.L. Ward, and S.A. Yost, *JHEP* **10** (2007) 048, arXiv:0707.3654

20. *QED⊗QCD Resummation and Shower/ME Matching for LHC Physics*, *Acta Phys. Polon.* **B38** (2007) 2395-2403, arXiv:0704.0294

21. *All-Order ε-Expansion of Gauss Hypergeometric Functions with Integer and Half-Integer Values of Parameters*, M.Yu. Kalmykov, B.F.L. Ward, and S.A. Yost, *JHEP* **02** 040 hep-th/0612240

22. *Numerically Stable Calculations of Radiative Corrections to Bremsstrahlung*, S.A. Yost, S. Jadach, and B.F.L. Ward, *ICHEP 2006: Proceedings of the 33^{rd} International Conference on High Energy Physics, Moscow, July 26 – Aug. 2, 2006* (World Scientific, 2007) 697, hep-ph/0610169

23. *QED ⊗ QCD Exponentiation: Shower/ME Matching and IR-Improved DGLAP Theory at the LHC*, B.F.L. Ward and S.A. Yost, in *ICHEP 2006: Proceedings of the 33^{rd} International Conference on High Energy Physics, Moscow, July 26 – Aug. 2, 2006* (World Scientific, 2007) 505, hep-ph/0610230

24. *Comparisons of Exact Results for the Virtual Photon Contribution to Single Hard Bremsstrahlung in Radiative Return for e^+e^- Annihilation*, S. Jadach, B.F.L. Ward and S.A. Yost, *Phys. Rev.* **D73** (2006) 073001, hep-ph/0602197

25. *Virtual Corrections to Bremsstrahlung in High-Energy Collider Physics: LHC and e^+e^- Colliders*, S.A. Yost and B.F.L. Ward, *Nucl. Phys. Proc. Suppl.* **B157** (2006) 78-82, hep-ph/0602030

26. *Virtual Corrections to Bremsstrahlung with Applications to Luminosity Processes and Radiative Return*, S.A. Yost, S. Majhi and B.F.L. Ward, *Proceedings of Loopfest IV, 2005 International Linear Collider Physics and Detector Workshop and Second ILC Accelerator Workshop*, Snowmass, CO eConf C0508141, ALCPG1911 (2005), hep-ph/0512022

27. *QED ⊗ QCD Exponentiation and Shower/ME Matching at the LHC*, B.F.L. Ward and S.A. Yost, Proceedings of *HERA and the LHC*, CERN-2005-014 (2005) 304-308, hep-ph/0509003

28. *Radiative Corrections to Bremsstrahlung in Radiative Return*, S.A. Yost, S. Jadach and B.F.L. Ward, *Acta Phys. Polon.* **B36** (2005) 2379-2386, hep-ph/0505065

29. *Precision Calculations of W and Z Production at the LHC: Progress in*

Precision Luminosity Studies, S.A. Yost, C. Glosser and B.F.L. Ward, contributed paper, *XII International Symposium on Lepton-Photon Interactions at High Energy*, Uppsala, Sweden, June 30 - July 5, 2005, PAPER-0063

30. *New Results on Precision Studies of Heavy Vector Boson Physics*, B.F.L. Ward, C. Glosser, S. Jadach, W. Placzek, M. Skrzypek, Z. Was and S.A. Yost, *Int. J. Mod. Phys.* **A20** (2005) 3258-3262, hep-ph/0411051

31. *Threshold Corrections in Precision LHC Physics: QED $\otimes$ QCD*, B.F.L. Ward, C. Glosser, S. Jadach and S.A. Yost, *Int. J. Mod. Phys.* **A20** (2005) 3735-3738, hep-ph/0411047

32. *The Virtual Correction to Bremsstrahlung in High-Energy e^+e^- Annihilation: Comparison of Exact Results*, S.A. Yost, Chris Glosser, S. Jadach and B.F.L. Ward, *ICHEP 2004: Proceedings of the 32nd International Conference on High Energy Physics, Beijing* (World Scientific, Singapore, 2005) 478-481, hep-ph/0410238

33. *Threshold Corrections in QED $\otimes$ QCD at the LHC*, B.F.L. Ward, C. Glosser, S. Jadach and S.A. Yost, *ICHEP 2004: Proceedings of the 32nd International Conference on High Energy Physics, Beijing* (World Scientific, Singapore, 2005) 588-591, hep-ph/0410277

34. *Comparisons of Fully Differential Exact Results for $\mathcal{O}(\alpha)$ Virtual Corrections to Single Hard Bremsstrahlung in e^+e^- Annihilation at High Energies*, C. Glosser, S. Jadach, B.F.L. Ward and S. Yost, *Phys. Lett.* **B605** (2005) 123-128, hep-ph/0406298

35. *Comparison of Exact Results for the Virtual Corrections to Bremsstrahlung in Electron-Positron Annihilation at High Energies*, S.A. Yost, C. Glosser, S. Jadach and B.F.L. Ward, *Proceedings of LCWS 2004, The International Conference on Linear Colliders, Paris*, Addendum: Session on Loop Calculations (Éditions de l'École Polytechnique, Paris, 2007), hep-ph/0409041

36. *QED $\otimes$ QCD Threshold Corrections at the LHC*, C. Glosser, S. Jadach, B.F.L. Ward and S. Yost, *Mod. Phys. Lett.* **A19** (2004), 2113-2120, hep-ph/0404087

37. *Precision Electro-Weak and Hadronic Luminosity Calculations*, S.A. Yost, C. Glosser and B.F.L. Ward, *Quantum Theory and Symmetries: Proceedings of the 3rd International Symposium, Cincinnati* (World Scientific, Singapore, 2004), hep-ph/0401211

38. *Exact Differential $\mathcal{O}(\alpha^2)$ Results for Hard Bremsstrahlung in e^+e^- An-*

nihilation to Two Fermions At and Beyond LEP2 Energies, S. Jadach, M. Melles, B.F.L. Ward and S.A. Yost, *Phys. Rev.* **D65** (2002), 73030, hep-ph/0109279

39. *New Results on the Precision of the LEP Luminosity*, S. Jadach, M. Melles, B.F.L. Ward and S.A. Yost, *Acta Phys. Polon.* **B30** (1999), 1745-1750

40. *Precision Calculation of Bhabha Scattering at LEP*, W. Placzek, S. Jadach, M. Melles, B.F.L. Ward and S.A. Yost, *Fourth International Symposium on Radiative Corrections: Applications of Quantum Field Theory to Phenomenology, Barcelona* (World Scientific, Singapore, 1999), 325-333

41. *New Results on the Theoretical Precision of the LEP/SLC Luminosity*, B.F.L. Ward, S. Jadach, M. Melles and S.A. Yost, *Phys. Lett.* **B450** (1999), 262-266, hep-ph/9811245 (inSPIRE "Well-known": 50+ citations)

42. *Theoretical Calculations of the Bhabha Process*, S. Jadach, M. Melles, W. Placzek, E. Richter-W as, M. Skrzypek, B.F.L. Ward, Z. W as and S.A. Yost, *ICHEP '96: Proceedings of the 28th International Conference on High Energy Physics, Warsaw* (World Scientific, Singapore, 1997), 1072-1076

43. *Precise Calculations of the Bhabha Process*, S. Jadach, M. Melles, W. Placzek, E. Richter-W as, M. Skrzypek, B.F.L. Ward, Z. W as and S.A. Yost, *Acta Phys. Polon.* **B28** (1997), 925-942

44. *Bhabha Process at LEP: Theoretical Calculations*, S. Jadach, M. Melles, B.F.L. Ward and S.A. Yost, *Nucl. Phys. Proc. Suppl.* **51C** (1996), 164-173, hep-ph/9603248

45. *Exact Results on $\mathcal{O}(\alpha)$ Corrections to the Single Hard Bremsstrahlung Process in Low Angle Bhabha Scattering in the SLC/LEP Energy Regime*, S. Jadach, M. Melles, B.F.L. Ward and S. Yost, *Phys. Lett.* **B377** (1996), 168-176, hep-ph/9603248

46. *Theoretical Expectations For High Mass Photon Pairs in $l^+l^-\gamma\gamma$ Events at LEP/SLC*, S. Jadach, B.F.L. Ward and S.A. Yost, *Phys. Rev.* **D51** (1995), 3149-3152, hep-ph/9402350

47. *Higher-order Radiative Corrections to Bhabha Scattering at Low Angles: the YFS Monte Carlo Approach*, S. Jadach, M. Melles, W. Płaczek, E. Richter-Wąs, M. Skrzypek, B.F.L. Ward, Z. Wąs and S. Yost, in *Reports of the Working Group on Precision Calculations for the Z Resonance* (CERN Yellow Report 95-03, 1995) 343-359

48. *Higher-order Radiative Corrections to Bhabha Scattering at Low Angles:*

YFS Monte Carlo Approach, S. Jadach, M. Melles, W. Płaczek, E. Richter-Wąs, M. Skrzypek, B.F.L. Ward, Z. Wąs and S. Yost, *Tennessee International Symposium on Radiative Corrections, Gatlinburg 1994* (World Scientific, Singapore, 1994), 153-167

49. *QED Corrections to Luminosity Measurements at LEP*, S. Jadach, M. Melles, W. Płaczek, E. Richter-Wąs, M. Skrzypek, B.F.L. Ward, Z. Wąs and S. Yost, *Electroweak Interactions and Unified Theories, Moriond 1994* (Meribell, France, 1994), 167-180

50. *Higher Order Radiative Corrections to Z^0 and SSC Physics: YFS Monte Carlo Approach*, B.F.L. Ward, D. DeLaney, S. Jadach, Ch. Shio, G. Siopsis, M. Skrzypek, E. Richter-Wąs, Z. Wąs, and S.A. Yost, *Acta Phys. Polon.* **B25** (1994), 245-264

51. *Exact Results on $e^+e^- \to e^+e^- + 2\gamma$ at SLC/LEP Energies*, S. Jadach, B.F.L. Ward and S. Yost, *Phys. Rev.* **D47** (1993) 2682-2689, hep-ph/9211252

52. *Charged Black Holes in Two-Dimensional String Theory*, M. McGuigan, C. Nappi and S. Yost, *Nucl. Phys.* **B375** (1992), 421-452, hep-th/9111038 (inSPIRE "Very well-known": 100+ citations)

53. *Supermatrix Models*, S. Yost, *Int. J. Mod. Phys.* **A7** (1992) 6105-6120, hep-th/9111033

54. *Superstring Field Theory*, C. Preitschopf, C. Thorn and S. Yost, *Superstrings and Particle Theory, Tuscaloosa 1989* (World Scientific, Singapore, 1990) 38-48

55. *Superstring Field Theory*, C. Preitschopf, C. Thorn and S. Yost, *Nucl. Phys.* **B337** (1990) 363-433 (inSPIRE "Well-known": 50+ citations)

56. *Bosonized Superstring Boundary States and Partition Functions*, S. Yost, *Nucl. Phys.* **B321** (1989) 629-652

57. *Loop Corrections to Superstring Equations of Motion*, C. Callan, C. Lovelace, C. Nappi, and S. Yost, *Nucl. Phys.* **B308** (1988) 221 (inSPIRE "Famous": 250+ citations)

58. *Loop Corrections to Conformal Invariance for Type I Superstrings*, C. Callan, C. Lovelace, C. Nappi, and S. Yost, *Phys. Lett.* **206B** (1988) 41

59. *String Loops in Background Fields*, S. Yost, Princeton University thesis (1987)

60. *Adding Holes and Crosscaps to the Superstring*, C. Callan, C. Lovelace, C. Nappi, and S. Yost, *Nucl. Phys.* **B293** (1987) 83 (inSPIRE "Famous": 250+ citations)

61. *String Loop Corrections to Beta Functions*, C. Callan, C. Lovelace, C. Nappi, and S. Yost, *Nucl. Phys.* **B288** (1987) 525 (inSPIRE "Famous": 250+ citations)

62. *Open Strings in Background Gauge Fields*, A. Abouelsaood, C. Callan, C. Nappi, and S. Yost, *Nucl. Phys.* **B280** (1987) 599 (inSPIRE "Renowned": 500+ citations)

63. *The Mass of the H Dibaryon in a Chiral Model*, S. Yost and C. Nappi, *Phys. Rev.* **D32** (1985) 816

Unpublished Presentations

1. *The Hypergeometric Representation of Feynman Diagrams and Construction of the Epsilon Expansion*, Particle Physics Seminar, The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences, Cracow, Jan. 14, 2011
2. *The Hypergeometric Representation of Feynman Diagrams and Construction of the Epsilon Expansion*, invited talk in the AMS Special Session *Mathematics Related to Feynman Diagrams* at the 2011 Joint Mathematics Meetings, New Orleans, Jan. 9, 2011
3. *New Results from the HERWIRI Event Generator Project*, Loopfest IX, Stony Brook, NY, June 21, 2010
4. *The Physics of the LHC*, Sigma Pi Sigma presentation, The Citadel, Nov. 13, 2009
5. *Theoretical Uncertainties in Vector Boson Production at the LHC*, Pheno 09, Madison, WI, May 2009
6. *HERWIRI: Progress on a Precision Event Generator for W and Z Production at the LHC*, Loopfest VIII, Madison, WI, May 8, 2009
7. *Hypergeometric Functions and Feynman Diagrams*, Mathematics Colloquium, College of Charleston, Charleston, SC, April 17, 2009
8. *Precision Physics at the Large Hadron Collider (LHC)*, Physics Seminar, The Citadel, Charleston, SC, Feb. 2008
9. *Precision Physics at the Large Hadron Collider (LHC)*, Physics Colloquium, Sacramento State, Sacramento, CA, Dec. 11, 2007

10. *All Order Epsilon-Expansion of Gauss Hypergeometric Functions with Integer and Half-Integer Values of Parameters*, APS April Meeting, Jacksonville, 2007
11. *QED⊗QCD Resummation and Shower/ME Matching for LHC Physics*, poster, APS April Meeting, Jacksonville, 2007
12. *Precision Physics for the LHC*, Physics Seminar, Erskine College, Due West, SC, March 2, 2007
13. *Precision Calculations of Radiative Corrections for ILC Physics*, Joint Meeting of Pacific Region Particle Physics Communities, Honolulu, Oct.-Nov. 2006
14. *Exponentiated Monte Carlo Approach to Vector Boson Production at the LHC*, Texas Section of the APS Fall Meeting, U.T. Arlington, Oct. 2006
15. *Precision Studies of Radiative Corrections to Bhabha Scattering and Fermion Pair Production*, International School-Workshop "Calculations for Modern and Future Colliders", Dubna, Russia, July 2006
16. *QED⊗QCD Exponentiation and Shower/ME Matching at the LHC*, Second Workshop on HERA and the LHC, CERN, Geneva, June 2006
17. *On a General Procedure for Evaluating Higher Order Radiative Corrections for LHC Physics*, APS April Meeting, Dallas, 2006
18. *Comparisons of Exact Results for the Virtual Photon Contribution to Single Hard Bremsstrahlung in Radiative Return for Electron-Positron Annihilation*, APS April Meeting, Dallas, 2006
19. *QED⊗QCD Exponentiation and Shower/ME Matching at High Energies*, APS April Meeting, Dallas, 2006
20. *Comparisons of Virtual Corrections to Bremsstrahlung in Radiative Return at High Energy e^+e^- Colliders*, APS April Meeting, Tampa, 2005
21. *QCD ⊗ QED Exponentiation and Shower/ME Matching at the LHC*, APS April Meeting, Tampa, 2005
22. *Virtual Corrections to Bremsstrahlung in High Energy e^+e^- Colliders*, Texas Section of the APS Fall Meeting, Baylor, Oct. 2004
23. *Luminosity Calculations for the LHC*, APS April Meeting, Denver, 2004
24. *Precision Electroweak Studies in Electron-Positron Collisions*, Physics Department Colloquium, University of Tennessee, March 1999
25. *Exact Results on 2-Photon Bremsstrahlung in e^+e^- Scattering at SLC/LEP Energies*, Elementary Particle Physics Seminar, Univ. of Oklahoma, March 1993
26. *Exact Results on $e^+e^- \to e^+e^- + 2\gamma$ at SLC/LEP Energies*, APS April Meeting, Washington, DC, 1993

27. *Exact Results on $e^+e^- \to e^+e^- + 2\gamma$ at SLC/LEP Energies*, Seminar, Univ. of Florida, fall 1992
28. *Superstring Field Theory*, Seminar, City College of New York, Dec. 1989
29. *Superstring Field Theory*, Seminar, SUNY Stony Brook, Dec. 1989
30. *Superstring Corrections to Conformal Invariance*, Seminar, Univ. of Miami, Oct. 1988
31. *String Loop Corrections to Beta Functions*, Seminar, Univ. of Florida, Feb. 1987
32. *String Loop Corrections to Beta Functions*, Seminar, City College of New York, Jan. 1987
33. *String Loop Corrections to Beta Functions*, Workshop on Superstrings, Institute of Theoretical Physics, Santa Barbara, 1986

Conferences and Schools Attended

1. *Meeting of the APS Division of Particles and Fields*, Brown Univ., Aug. 9 – 13, 2011
2. *Standard Model Benchmarks at High Energy Colliders*, DESY Zeuthen, Germany, June 15 – 17, 2011
3. *Cracow Epiphany Conference on the First Year of the LHC*, Cracow, Poland, Jan. 10 – 12, 2011
4. *2011 Joint Mathematics Meetings*, New Orleans, Jan. 6 – 9, 2011
5. *Standard Model Benchmarks at the Tevatron and LHC*, Fermilab, Nov. 19 – 20, 2010
6. *The* 34^{th} *International Conference on High Energy Physics*, Paris, July 22 – 28, 2010
7. *The Physics of W and Z Bosons*, RIKEN BNL Research Center, Brookhaven National Laboratory, June 24 – 25, 2010
8. *Loopfest IX*, Stony Brook, NY, June 21 – 23, 2010
9. *PHENO 2009 Symposium, "LHC Alive!"*, Madison, WI, May 11 – 13, 2009
10. *Loopfest VIII*, Madison, WI, May 7 – 9, 2009
11. *International Linear Collider Workshop 2008: LCWS08/ILC08*, Chicago, Nov. 16 – 20, 2008
12. *Strings, Geometry, and the LHC*, 2008 Simons Workshop in Mathematics and Physics, Stony Brook University, July, 2008

13. *APS April Meeting*, Jacksonville, FL, Apr. 14 – 17, 2007
14. *"Physics at LHC: From Experiment to Theory" and second workshop on "Monte Carlo Tools for Beyond the Standard Model Physics" (MC4BSM)*, Princeton, March 21 – 24, 2007
15. *Cracow Epiphany Conference on Precision Physics and Monte Carlos for LHC*, Cracow, Poland, Jan. 4 – 6, 2007
16. *Joint Meeting of Pacific Region Particle Physics Communities*, Honolulu, Hawaii, Oct. 29 – Nov. 4 2006
17. *TSAPS/AAPT/SPS Joint Fall Meeting*, Univ. of Texas, Arlington, Oct. 5 – 7, 2006
18. *The 33^{rd} International Conference on High Energy Physics*, Moscow, July 26 – Aug. 2, 2006
19. *International School-Workshop "Calculations for Modern and Future Colliders" (CALC-2006)*, Dubna, Russia, July 15-25, 2006
20. *Seventh International Symposium on Radiative Corrections: Application of Quantum Field Theory to Phenomenology (RADCOR 2005)*, Shonan Village, Japan, Oct. 2 – 7, 2005
21. *2005 International Linear Collider Physics and Detector Workshop and Second ILC Accelerator Workshop*, Snowmass, CO, Aug. 14 – 27, 2005
22. *XXII International Symposium on Lepton-Photon Interactions at High Energy*, Uppsala, Sweden, June 30 - July 5, 2005
23. *APS April Meeting*, Tampa, FL, Apr. 16 – 19, 2005
24. *Cracow Epiphany Conference on Hadron Spectroscopy*, Cracow, Poland, Jan. 6 – 8, 2005
25. *APS/AAPT New Faculty Seminar*, College Park, MD, Nov. 2004
26. *TSAPS/AAPT/SPS Joint Fall Meeting*, Baylor University, Oct. 7 – 9, 2004
27. *32^{nd} International Conference on High Energy Physics*, Beijing, China, Aug. 16 – 22, 2004
28. *APS April Meeting*, Denver, CO, Apr. 30 – May 4, 2004
29. *International Conference on Linear Colliders LCWS 04*, Paris, France, Apr. 19 – 23, 2004
30. *Third International Symposium on Quantum Theory and Symmetries*, Cincinnati, Sept. 9 – 14, 2003
31. *PierreFest*, Institute for Fundamental Theory, Univ. of Florida, Feb. 1 –2, 2003

32. *Special Birthday Symposium in Honor of Curtis G. Callan, Jr.*, Nov. 1 – 2, 2002
33. *Cracow Epiphany Conference on Neutrinos in Physics and Astrophysics*, Jan. 6 – 9, 2000
34. *Cracow Epiphany Conference on Electron-Positron Colliders*, Jan. 5 – 10, 1999
35. *Trends in Mathematical Physics*, Univ. of Tennessee, Knoxville, Oct. 1998
36. *Cracow Epiphany Conference on Spin Effects in Particle Physics*, Jan. 9 – 11, 1998
37. *Tennessee International Symposium on Radiative Corrections: Status and Outlook (RADCOR-94)*, Gatlinburg, TN, June 27 – July 1, 1994
38. *Second IFT Workshop on Yukawa Couplings and the Origins of Mass*, Institute for Fundamental Theory, Univ. of Florida, Feb. 11 – 13, 1994
39. *1992 SLAC Summer Institute: The Third Family and the Physics of Flavor*, Stanford Linear Accelerator Center, July 13 – 24, 1992
40. *Princeton Lectures on Biophysics*, NEC Research Institute, Princeton, NJ, June 23 – 29, 1991
41. *Aspen Center for Physics Summer Program*, Aspen, CO, Aug. 1990
42. *Strings '90*, Texas A& M University, Mar. 12 – 17, 1990
43. *Superstrings and Particle Theory / SEPAPS Meeting*, Tuscaloosa, AL, Nov. 8–11, 1989
44. *Aspen Center for Physics Summer Program*, Aspen, CO, Aug. 1989
45. *Strings '89*, Texas A& M University, Mar. 13 – 18, 1989
46. *Aspen Center for Physics Summer Program*, Aspen, CO, 1988
47. *Strings '88*, Univ. of Maryland, College Park, MD, May 24 – 28, 1988
48. *Workshop on Superstrings*, Institute of Theoretical Physics, Santa Barbara, 1986
49. *Theoretical Advanced Study Institute in High Energy Physics*, Yale University, summer 1985
50. *Symposium on Anomalies, Geometry and Topology*, Argonne National Laboratory, Univ. of Chicago, March 28 – 30, 1985