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POSITIONS HELD:

- 2004–present: Marshak Postdoctoral Fellow, University of Rochester
- 2002–2004: Fellow, Theory Group, DESY, Hamburg, Germany
- 1999–2002: Research Associate, Theoretical Physics Dept., Fermilab

EDUCATION:

- 1999: Ph.D. Physics, Univ. of Wisconsin (Advisor: Prof. Dieter Zeppenfeld)
Title: Intermediate mass Higgs searches in weak boson fusion
- 1993: B.S. Physics, with honors, minor in mathematics, Summa cum laude,
Univ. of Missouri – Columbia

GRADUATE AWARDS:

- 1994–1995: Wisconsin Alumni Research Foundation Fellow

RESEARCH ASSISTANTSHIPS:

- 1996–1999: Dept. of Physics, University of Wisconsin
- Summer 1998: NSF Summer Institute Fellow, KEK Theory Group, Japan
- Summer 1993: American Nuclear Society Foreign Exchange Student, Tokyo
Inst. of Technology, Research Laboratory for Nuclear Reactors
- 1992–1993: Dept. of Physics, University of Missouri
- Summer 1991: Argonne National Laboratory, Argonne, IL
- 1990–1991: Dept. of Physics, University of Missouri

TEACHING ASSISTANTSHIPS:

- Fall 1995: Dept. of Physics, University of Wisconsin
2nd semester calculus-based introductory physics
- Spring 1992: Dept. of Physics, University of Missouri
1st semester calculus-based introductory physics

PROFESSIONAL ACTIVITIES - ADVISORY:

- Grant referee for the National Science Foundation
- Journal referee for: Physical Rev. D, Physical Rev. Letters, European Physical Journal C, Journal of High Energy Physics, Journal of Physics G
- Member of the Physics Leaders advisory panel, Dept. of Physics, U. Missouri, Columbia

PROFESSIONAL ACTIVITIES - STUDENTS:

- Graduate students currently working with me:
Daniel Berdine (University of Rochester, 4th year Ph.D. student)
- Graduate students who previously worked with me:
Alexandre Alves (University of São Paulo, Ph.D. 2004)
Jürgen Reuter (University of Karlsruhe, Ph.D. 2004)
- Undergraduate students who previously worked with me:
George Bruhn (University of Rochester, B.S. 2005)
Michael Dürrsen (University of Freiburg, Diplom 2004)

PROFESSIONAL ACTIVITIES - EDUCATION AND PUBLIC OUTREACH:

- Guest Lecturer (special graduate course) at the Catholic University of Louvain, on Higgs phenomenology, Louvain-la-Neuve, Nov. 2006
- Lecturer at the Theoretical Advanced Study Institute, on Higgs phenomenology, Univ. of Colorado at Boulder, June 2006
- Instructor for Fermilab's "Saturday Morning Physics" high school course, 2001-2002
- Article for Macmillan Encyclopedia of Physics, 2002, "Search for the Higgs boson"
- Regular Fermilab respondent (1999-2002) for journalist and public physics and science inquiries, including meeting with members of the public

PROFESSIONAL ACTIVITIES - CONFERENCES & WORKSHOPS:

- LHC/ILC co-convenor of the Vancouver Linear Collider Workshop, July 19-22, 2006
- Member of the Coordinating Committee on the LC/LHC Relation, American Linear Collider Physics Group 2005 workshop, Snowmass, Colorado
- Physics Landscape co-convenor for Tev4LHC, Fermilab, 2004-2006
- EWSB working group co-convenor for WIN'03, Lake Geneva, Wisconsin, Oct. 2003
- Higgs group co-convenor for SUSY02, DESY, Hamburg, June 2002
- Organizing committee for Workshop on the Future of Higgs Physics, Fermilab, May 2001
- Subgroup convenor for Top Thinkshop 2, Fermilab, November 2000

PROFESSIONAL ACTIVITIES - LOCAL COMMITTEES:

- Co-organizer of the Univ. of Rochester joint HEP-Nuclear seminars, 2004-2007

REFEREED PUBLICATIONS:

42. **$gg \rightarrow VVV$ at the LHC**,
(with T. Plehn and M. Rauch), in preparation.
41. **Long-lived staus at neutrino telescopes from atmospheric and prompt-decay neutrinos**,
(with S. Ando, J. Beacom and S. Profumo), arXiv:0711.2908, submitted to JCAP.
40. **MadGraph/MadEvent v4: The New Web Generation**,
(with J. Alwall, P. Demin, S. de Visscher, R. Frederix, M. Herquet, F. Maltoni, T. Plehn and T. Stelzer), JHEP **09** (2007) 028.
39. **Electroweak same-sign chargino production at LHC**,
(with J. Alwall and T. Plehn), Phys. Rev. **D76**, 055006.
38. **Breakdown of the narrow width approximation for new physics**,
(with D. Berdine and N. Kauer), Phys. Rev. Lett. **99**, 111601 (2007).
37. **Hints for gauge unification at the LHC**,
(with T. Tait), Phys. Rev. **D75**, 115014 (2007).
36. **Distinguishing Little Higgs Product and Simple Group models at the LHC and ILC**,
(with W. Kilian and J. Reuter), Phys. Rev. **D74**, 095003 (2006).
35. **Weak boson fusion production of supersymmetric particles at the LHC**,
(with G.-C. Cho, K. Hagiwara, J. Kanzaki, T. Plehn and T. Stelzer),
Phys. Rev. **D73**, 054002 (2006).
34. **Improved Measurement of $t\bar{t}Z$ Couplings at the LHC**
(with U. Baur, A. Juste and L. Orr), Phys. Rev. **D73**, 034016 (2006).
33. **Supersymmetry simulations with off-shell effects for LHC and ILC**,
(with K. Hagiwara, W. Kilian, F. Krauss, T. Ohl, T. Plehn, J. Reuter and S. Schumann),
Phys. Rev. **D73**, 055005 (2006).
32. **Correlated decays of pair-produced scalar taus**,
(with K. Hagiwara, K. Mawatari and T. Stelzer), Phys. Rev. **D73**, 075010 (2006).
31. **Squark and gluino production with jets**,
(with T. Plehn and P. Skands), Phys. Lett. **B645**, 217 (2007).
30. **Standard Model charge asymmetries in $t\bar{t} + 0, 1, 2$ jets production at the Tevatron**,
(with M. Bowen and S. Ellis), Phys. Rev. **D73**, 014008 (2006).
29. **Mixed top-bottom squark production at the LHC**,
(with D. Berdine), Phys. Rev. **D72**, 075003 (2005).
28. **Probing electroweak top quark couplings at hadron colliders**,
(with U. Baur, A. Juste, and L. Orr), Phys. Rev. **D71**, 054013 (2005).

REFEREED PUBLICATIONS (CONTINUED):

27. **Pseudo-axions in Little Higgs models**,
(with W. Kilian and J. Reuter), Phys. Rev. **D71**, 015008 (2005).
26. **Extracting Higgs boson couplings from LHC data**,
(with M. Dürrssen, H. Logan, S. Heinemeyer, G. Weiglein and D. Zeppenfeld),
Phys. Rev. **D70**, 113009 (2004).
25. **Probing the Higgs self-coupling at hadron colliders using rare decays**,
(with U. Baur and T. Plehn), Phys. Rev. **D69**, 053004 (2004).
24. **Robust LHC Higgs Searches in Weak Boson Fusion**.
(with A. Alves, O. Eboli and T. Plehn), Phys. Rev. **D69**, 075005 (2004).
23. **Next-to-leading order QCD predictions for $W + 2$ jet and $Z + 2$ jet production at the CERN LHC**,
(with J. Campbell and K. Ellis), Phys. Rev. **D68**, 094021 (2003).
22. **Examining the Higgs boson potential at lepton and hadron colliders: a comparative analysis**,
(with U. Baur and T. Plehn), Phys. Rev. **D68**, 033001 (2003).
21. **Top-Quark Physics**,
(with D. Chakraborty and J. Konigsberg), Ann. Rev. of Nuc. & Part. Sci. , Vol. 53, 2003.
20. **TeV resonances in top quark physics at the LHC**,
(with T. Han and G. Valencia), Phys. Rev. **D68**, 015003 (2003).
19. **Measuring the Higgs boson self coupling at future hadron colliders**,
(with U. Baur and T. Plehn), Phys. Rev. **D67**, 033003 (2003).
18. **Measuring the Higgs boson self coupling at the LHC**,
(with U. Baur and T. Plehn), Phys. Rev. Lett. **89**, 151801 (2002).
17. **Measuring the top quark Yukawa coupling at hadron colliders via $t\bar{t}H, H \rightarrow W^+W^-$** ,
(with F. Maltoni and S. Willenbrock), Phys. Rev. **D66**, 034022 (2002).
16. **Increased Yield of $t\bar{t}b\bar{b}$ at Hadron Colliders in Low-Energy Supersymmetry**,
(with A. Leibovich), Phys. Rev. Lett. **88**, 221801 (2002).
15. **Top quark associated production of topcolor pions at hadron colliders**,
(with A. Leibovich), Phys. Rev. **D65**, 055012 (2002).
14. **Higgs decays to muons in weak boson fusion**,
(with T. Plehn), Phys. Lett. **B520**, 108.
13. **Determining the structure of Higgs couplings at the LHC**,
(with T. Plehn and D. Zeppenfeld), Phys. Rev. Lett. **88**, 051801 (2002)

REFEREED PUBLICATIONS (CONTINUED):

12. **$H \rightarrow WW$ as the discovery mode for a light Higgs boson,**
(with N. Kauer, T. Plehn and D. Zeppenfeld), Phys. Lett. **B503**, 113 (2001).
11. **Probing neutral gauge boson self-interactions in ZZ production at hadron colliders,**
(with U. Baur), Phys. Rev. **D62**, 113011 (2000).
10. **$p\bar{p} \rightarrow t\bar{t}H$: A discovery mode for the Higgs boson at the Tevatron,**
(with J. Goldstein, C.T. Hill, J. Incandela, S. Parke and D. Stuart),
Phys. Rev. Lett. 86, 1694 (2001).
9. **New method for measuring the bottom quark Yukawa coupling at the CERN Large Hadron Collider,**
Phys. Lett. **B503**, 320 (2001).
8. **A Method for identifying $H \rightarrow \tau\tau \rightarrow e^\pm\mu^\mp p_T$ at the CERN LHC,**
(with T. Plehn and D. Zeppenfeld), Phys. Rev. **D61**, 093005 (2000).
7. **Observing $H \rightarrow W^{(*)}W^{(*)} \rightarrow e^\pm\mu^\mp p_T$ in weak boson fusion at the LHC,**
(with D. Zeppenfeld), Phys. Rev. **D60**, 113004 (1999).
6. **Drell-Yan plus missing energy as a signal for extra dimensions,**
(with T. Han and D. Zeppenfeld), Phys. Lett. **B463**, 93 (1999).
5. **Probing the MSSM Higgs sector via weak boson fusion at the LHC,**
(with T. Plehn and D. Zeppenfeld), Phys. Lett. **B454**, 297 (1999).
4. **Searching for $H \rightarrow \tau\tau$ in weak boson fusion at the LHC,**
(with K. Hagiwara and D. Zeppenfeld), Phys. Rev. **D59**, 014037 (1999).
3. **Searching for $H \rightarrow \gamma\gamma$ in weak boson fusion at the LHC,**
(with D. Zeppenfeld), JHEP **12** (1998) 004.
2. **Multijet structure of high E_T hadronic collisions,**
(with D. Zeppenfeld and D. Summers), Phys. Rev. **D55**, 5681 (1997).
1. **Probing color-singlet exchange in $Z + 2$ -jet events at the CERN LHC,**
(with R. Szalapski and D. Zeppenfeld), Phys. Rev. **D54**, 6680 (1996).

PROCEEDINGS AND OTHER PUBLICATIONS:**24. Searching for the Higgs boson,**

hep-ph/0702124, to appear in the compiled lectures of the Theoretical Advanced Study Institute, 2006.

23. Tevatron-for-LHC Report: Preparations for Discoveries,

(ed., with V. Buescher, Marcela Carena, B. Dobrescu, S. Mrenna and M. Schmitt), FERMILAB-CONF-06-284-T, hep-ph/0608322.

22. Pseudo-axions in Little Higgs models,

(with W. Kilian and J. Reuter), in CP Studies and Non-Standard Higgs Physics, hep-ph/0608079, CERN-2006-009, 2006.

21. Probing Electroweak Top Quark Couplings at Hadron and Lepton Colliders,

(with U. Baur, A. Juste and L. Orr), hep-ph/0606264, in the Proceedings of Loops and Legs 2006, Eisenach, Germany, Nucl. Phys. Proc. Suppl. **160**, 17 (2006).

20. A repository for beyond-the-Standard-Model tools,

(with numerous authors), hep-ph/0602198, Les Houches “Physics at TeV colliders 2005” beyond the Standard Model working group: Summary Report, Les Houches, France.

19. Next Generation Multi-particle event generators for the MSSM,

(with K. Hagiwara, W. Kilian, F. Krauss, T. Ohl, T. Plehn, J. Reuter and S. Schumann), hep-ph/0512012, to appear in Proceedings of the 2005 International Linear Collider Physics and Detector Workshop, Snowmass, Colorado.

18. QCD Radiation in the Production of High s -hat Final States,

(with T. Plehn and P. Skands), hep-ph/0511306, to appear in Proceedings of the 2005 International Linear Collider Physics and Detector Workshop, Snowmass, Colorado.

17. Pseudo-Axions in Little Higgs Models,

(with W. Kilian and J. Reuter), hep-ph/0507081, to appear in Proceedings of International Conference on Linear Colliders (LCWS 05), Stanford, USA, 18-22 Mar 2005.

16. Determination of Higgs-boson couplings at the LHC,

(with M. Duehrssen, S. Heinemeyer, H. Logan, G. Weiglein and D. Zeppenfeld), Proceedings of the XXXIXth Rencontres de Moriond, La Thuile, March 2004.

15. Examining the Higgs boson potential,

(with U. Baur and T. Plehn), in the LHC/LC Study Group Working Document “Physics interplay of the LHC and the ILC”, hep-ph/0410364, 2004.

14. NLO corrections to V +jets as a background to the LHC Higgs search,

in Proceedings of the 2003 Les Houches Workshop; hep-ph/0406152.

13. Higgs coupling measurements at the LHC: beyond the SM,

(with M. Duehrssen, S. Heinemeyer, H. Logan, G. Weiglein and D. Zeppenfeld), in Proceedings of the 2003 Les Houches Workshop; hep-ph/0406152.

PROCEEDINGS AND OTHER PUBLICATIONS (CONTINUED):

12. **Probing the Higgs self-coupling**,
(with U. Baur, A. Dahlhoff and T. Plehn),
in Proceedings of the 2003 Les Houches Workshop; hep-ph/0406152.
11. **Higgs physics at the LHC**,
in Tsukuba 2001, Physics at linear colliders, March, 2001.
10. **Higgs boson production at hadron colliders: signal and background processes**,
(with M. Spira and D. Zeppenfeld), hep-ph/0203187; in Proceedings of the 2001 Les Houches Workshop on Physics at TeV Colliders, hep-ph/0203056 (also hep-ph/0203187).
9. **Prospects For Observing $t\bar{t}H$ At Run II: A Discovery Mode For The Higgs Boson?**,
(with J. Goldstein, J. Incandela, S. Parke, D. Stuart, C. S. Hill),
Int. J. Mod. Phys. A **16S1A**, 308 (2001).
8. **Physics at future hadron colliders**,
in Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001), eConf **C010630**, E4001 (2001).
7. **Linear collider physics**,
(with P. Derwent *et al.*) report prepared for Fermilab Directorate, FERMILAB-FN-0701, hep-ex/0107044, July 2001.
6. **Linear collider resource book for Snowmass 2001**,
(with T. Abe *et al.*), FNAL-PUB-01-058-E, hep-ex/0106055-0106058.
5. **Precision Higgs physics at a future linear collider**,
Proc. of the 5th International Symposium on Radiative Corrections, hep-ph/0101135.
4. **Vector boson pair production and trilinear gauge boson couplings - prospects for Run II**,
(with U. Baur and H.T. Diehl) report of the working group on photon and weak boson production, in Batavia 1999, QCD and weak boson physics in Run II, hep-ph/0005226, May, 2005.
3. **Vector boson fusion and scattering**,
(with Z. Kunszt and R. Mazini) in the Electroweak Physics report of Geneva 1999, Standard model physics (and more) at the LHC, hep-ph/0003275.
2. **Intermediate mass Higgs searches in weak boson fusion**,
(Ph.D. dissertation), hep-ph/9908378.
1. **Searching for $VV \rightarrow H \rightarrow \tau\tau$ at the CERN LHC**,
in DPF99 proceedings, hep-ph/9903463.

PLENARY AND CONFERENCE INVITED TALKS:

12. **SUSY searches at the LHC**,
PASCOS 06, Ohio State Univ., Columbus, Ohio, Sept. 15, 2006.
11. **Top quark physics - theoretical overview**,
Hadron Collider Physics Symposium 2006, Duke Univ.,
Durham, North Carolina, May 23, 2006.
10. **What do we believe the top quark to be in the Standard Model?**,
April APS meeting, Tampa, Florida, 2005.
9. **Frontier studies of Higgs and SUSY at LHC**,
Physics in the LHC era, Kyoto University, Japan, Dec. 13, 2004.
8. **New Models of Electroweak Symmetry Breaking**,
DPF 2004, Univ. of California, Riverside, Aug. 27, 2004.
7. **Probing the Higgs potential with hadron colliders**,
Nordic LHC Workshop 9, Copenhagen, Denmark, June 17, 2004.
6. **Measuring the Higgs Potential at Future Hadron Colliders**,
International Workshop on Future Hadron Colliders, Fermilab, Oct. 16-18, 2003.
5. **Higgs Searches: Past, Present and Future**,
DPF 2003, Philadelphia, April 7, 2003.
4. **Higgs Physics at Hadron Colliders**,
Pheno 2001 Symposium, Madison, Wisconsin, May 8, 2001.
3. **Higgs Physics Prospects at the LHC**,
KEK Theory Workshop on Linear Colliders, KEK, Japan, March 16, 2001.
2. **Precision Higgs Physics at a Future Linear Collider**,
Radcor 2000, Carmel, California, Sept. 15, 2000.
1. **The Higgs and the LHC**,
Berkeley 2000, LBNL, March 30, 2000.

WORKING GROUP CONFERENCE SUMMARY TALKS:

4. **Landscape working group summary**,
final Tev4LHC workshop meeting, Fermilab, Chicago, Oct. 22, 2005.
3. **LHC/ILC Connections working group introduction and motivation**,
2005 International Linear Collider Workshop, Snowmass, Colorado, Aug. 17, 2005.
2. **Electroweak Symmetry Breaking working group summary**,
Weak Interactions and Neutrinos - 2003, Lake Geneva, Wisconsin, Oct. 11, 2003.
1. **“Top as a Tool” working group summary**,
Top Thinkshop 2, Fermilab, Nov. 12, 2000.

COLLOQUIA:

12. **New physics in the LHC era**,
Physics colloquium, Univ. of Victoria, April. 23, 2007.
11. **Problems and connections in (astro)particle physics**,
Special colloquium, Univ. of New Mexico, March 27, 2007.
10. **New physics in the LHC era**,
Physics colloquium, Univ. of California – Santa Barbara, Feb. 27, 2007.
9. **New physics in the LHC era**,
Special colloquium, Univ. of Pittsburgh, Jan. 23, 2007.
8. **Possible new physics at the LHC and its challenges**,
Univ. of Missouri Physics Dept. O. M. Stewart colloquium, March 20, 2006.
7. **LHC SUSY phenomenology beyond $2 \rightarrow 2$** ,
Southern Methodist Univ. Physics Dept. seminar, March 6, 2006.
6. **New physics phenomenology at the LHC**,
McGill University Physical Society Colloquium, Montréal, Canada, Jan. 26, 2006.
5. **Making the most of new physics at LHC**,
Argonne HEP Division Seminar, Oct. 26, 2005.
4. **Making the most of new physics at LHC**,
Max Planck Institute Colloquium, Munich, Germany, Aug. 2, 2005.
3. **Probing the Higgs self-coupling with hadron colliders**,
NIKHEF Colloquium, Amsterdam, Netherlands, April 2, 2004.
2. **The puzzle of electroweak symmetry breaking**,
University of Oregon Physics colloquium, Jan. 29, 2004.
1. **QCD radiation in $t\bar{t}$ events at hadron colliders**,
University of Texas - Arlington departmental colloquium, Feb. 26, 2002.

CONTRIBUTED TALKS:

33. **Long-lived staus in IceCube from atmospheric neutrinos**,
Pheno 07, University of Wisconsin - Madison, May 8, 2007.
32. **Breakdown of the narrow width approximation**,
LoopFest-VI, Fermilab, April 17, 2007.
31. **Standard Model Higgs at LHC with 10 fb^{-1}** ,
LHC-ILC 2007, Fermilab, April 12, 2007.
30. **Higgs and BSM physics: opportunities at LHC**,
Duke ATLAS Workshop, Duke University, Durham, NC, Dec. 18, 2006.
29. **Z - H - η couplings in Little Higgs models**,
Pheno 2006, Madison, WI, May 16, 2006.
28. **Violations of the Narrow Width Approximation**,
Workshop on Collider Physics, Argonne, May 10, 2006.
27. **SUSY-MadGraph**,
LoopFest IV, Snowmass, Colorado, Aug. 19, 2005.
26. **SUSY at the LHC with SMadGraph**,
SUSY 2005, University of Durham, England, July 22, 2005.
25. **SUSY at the LHC with SMadGraph**,
Pheno 2005, Madison, WI, May 2, 2005.
24. **Heavy [SUSY] Pairs plus jets at LHC**,
Tev4LHC workshop, Fermilab, Sept. 17, 2004.
23. **What we need to know about Top and why**,
KITP Collider Physics Workshop, UCSB, Santa Barbara, Feb. 3, 2004.
22. **Higgs backgrounds: QCD Zjj at NLO**,
Les Houches 2003: Physics at TeV Colliders, Les Houches, France, May 26 - June 6, 2003.
21. **NLO Results for V +jets at the LHC**,
Pheno 2003, Madison, WI, May 5, 2003.
20. **Higgs potential measurements at future colliders**,
LC Higgs workshop, DESY-Zeuthen, Berlin, March 20, 2003.
19. **Measurement of the Higgs potential and gauge coupling structure**,
SUSY 2002, DESY, Hamburg, Germany, June 20, 2002.
18. **QED corrections to $H \rightarrow ZZ \rightarrow 4\ell$ (status report)**,
LoopFest, Brookhaven National Lab, May 10, 2002.
17. **Measuring the top Yukawa coupling at the LHC**,
Pheno 2002, Madison, WI, April 23, 2002.

CONTRIBUTED TALKS (CONTINUED):

16. **Prospects for $pp \rightarrow t\bar{t}H, H \rightarrow W^+W^-$ at the LHC,**
Snowmass 2001, July 13, 2001.
15. **Weak boson fusion Higgs production at hadron colliders,**
Snowmass 2001, July 6, 2001.
14. **Precision Higgs physics at the LHC,**
Snowmass 2001, July 3, 2001.
13. **After Higgs discovery: the nature of the beast,**
Workshop on the Future of Higgs Physics, Fermilab, May 4, 2000.
12. **Issues in $t\bar{t} + jets$ production at hadron colliders,**
Top Thinkshop 2, Fermilab, Nov. 11, 2000.
11. **Prospects for observing $t\bar{t}H$ at Run II,**
DPF 2000, Columbus, OH, Aug. 11, 2000.
10. **A no-lose theorem for observation of the MSSM Higgs sector,**
SUSY 2000, CERN, July 1, 2000.
9. **MSSM $VV \rightarrow H \rightarrow \tau\tau$ at the LHC,**
Argonne National Lab Theoretical Institute on SUSY and Higgs,
Chicago, May 11, 2000.
8. **New method to measure the bottom quark Yukawa coupling at the LHC,**
Pheno 2000, Madison, Wisconsin, April 18, 2000.
7. **The MSSM and searching for $VV \rightarrow H \rightarrow \tau\tau$ at the CERN LHC,**
SUSY '99, Fermilab, June 18, 1999.
6. **Standard Model $VV \rightarrow H \rightarrow WW$ at the LHC,**
Pheno '99, Madison, Wisconsin, April 13, 1999.
5. **Drell-Yan plus real K-K emission at the Tevatron and LHC,**
Pheno '99, Madison, Wisconsin, April 13, 1999.
4. **SM process contributions to $VV \rightarrow \tau\tau + X$ at the LHC,**
LHC Workshop, CERN, January 22, 1999.
3. **Searching for $VV \rightarrow H \rightarrow \tau\tau$ at the LHC,**
DPF '99, UCLA, January 6, 1999.
2. **$H \rightarrow \gamma\gamma$ via weak boson scattering at the LHC,**
Pheno-CTEQ Symposium 1998, Madison, Wisconsin, March 25, 1998.
1. **$H \rightarrow \gamma\gamma$ via weak boson scattering at the LHC,**
Workshop on Physics at the First Muon Collider, Fermilab, Nov. 7, 1997.

SEMINARS:**76. A fourth generation,**

Buffalo-Rochester Journal Club seminar, Univ. of Rochester, July 12, 2006.

75. Breakdown of the narrow width approximation,

Special dept. seminar, Univ. of Victoria, British Columbia, April 24, 2007.

74. Breakdown of the narrow width approximation,

HEP Theory seminar, Univ. of California, Santa Barbara, CA, Feb. 28, 2007.

73. Breakdown of the narrow width approximation and SUSY phenomenology,

Theory seminar, SLAC, Menlo Park, CA, Jan. 17, 2007.

72. Breakdown of the narrow width approximation and SUSY phenomenology,

HEFTI seminar, Univ. of California, Davis, CA, Jan. 16, 2007.

71. Breakdown of the narrow width approximation and SUSY phenomenology,

Particle theory seminar, LBNL, Berkeley, CA, Jan. 15, 2007.

70. Breakdown of the narrow width approximation,

HEP seminar, Johns Hopkins University, Baltimore, Nov. 13, 2006.

69. Breakdown of the narrow width approximation,

HEP seminar, Univ. of Edinburgh, Scotland, Nov. 1, 2006.

68. Breakdown of the narrow width approximation,

IPPP Internal Seminar, Univ. of Durham, England, Oct. 27, 2006.

67. Gravitino dark matter and cosmological constraints,

Buffalo-Rochester Journal Club seminar, State Univ. of New York, Buffalo, July 27, 2006.

66. What is this LHC thing?,

lecture for undergrad physics majors, Univ. of Rochester, July 21, 2006.

65. Exploring electroweak symmetry breaking at the LHC,

Special Theory seminar, Univ. of Rochester, March 23, 2006.

64. LHC SUSY phenomenology beyond $2 \rightarrow 2$,

YITP seminar, Yang Institute for Theoretical Physics, SUNY - Stony Brook, Feb. 23, 2006.

63. What is the LHC for?,

Theoretical High Energy Physics seminar, University of Maryland, Feb. 20, 2006.

62. New physics phenomenology at the LHC,

Theoretical High Energy Physics seminar, Purdue University, Feb. 15, 2006.

61. LHC SUSY phenomenology beyond $2 \rightarrow 2$,

Joint Particle seminar, Univ. of California at Irvine, Jan. 18, 2006.

60. LHC SUSY phenomenology beyond $2 \rightarrow 2$,

Theoretical Elementary Particle Physics seminar, Univ. of California at Los Angeles, Jan. 17, 2006.

SEMINARS (CONTINUED):

59. **SUSY at the LHC with SMadGraph**,
HEP seminar, Univ. of Pittsburgh and Carnegie Mellon University, Nov. 2, 2005.
58. **SUSY at the LHC with SMadGraph**,
Argonne HEP special seminar, Oct. 26, 2005.
57. **SUSY at the LHC with SMadGraph**,
UW-Madison HEP seminar, Oct. 24, 2005.
56. **Unitarity and the scale of fermion mass generation**,
MPI Journal Club presentation, Max Planck Institute, Munich, Germany, July 28, 2005.
55. **SUSY at the LHC with SMadGraph**,
Particle physics theory seminar, University of Glasgow, Scotland, July 25, 2005.
54. **Unitarity and the scale of fermion mass generation**,
Buffalo-Rochester Journal Club seminar, State Univ. of New York, Buffalo, March 31, 2005.
53. **QCD and Asymptotic Freedom**,
lecture for undergraduate physics majors, Univ. of Rochester, March 18, 2005.
52. **Pseudo-Axions in Little Higgs models**,
Cornell Particle Theory seminar, Feb. 9, 2005.
51. **Pseudo-axions in Little Higgs models**,
Brookhaven HET/RIKEN seminar, Feb. 2, 2005.
50. **MadSUSY: A progress report**,
(with T. Plehn) Pheno seminar, Univ. of Wisconsin - Madison, Jan. 25, 2005.
49. **WBF Higgs production and precision Higgs couplings at LHC**,
Tokyo University HEP seminar, Tokyo, Japan, Dec. 17, 2004.
48. **Phenomenology of Little Higgs pseudo-axions**,
University of Chicago HEP seminar, Chicago, Nov. 29, 2004.
47. **New models of electroweak symmetry breaking**,
Carleton University HEP seminar, Ottawa, Canada, Nov. 8, 2004.
46. **New models of electroweak symmetry breaking**,
Buffalo-Rochester Journal Club seminar, State Univ. of New York, Buffalo, Sept. 30, 2004.
45. **Probing the Higgs self-coupling with hadron colliders**,
HEP Seminar, University of Rochester, Rochester, New York, July 13, 2004.
44. **Probing the Higgs self-coupling with hadron colliders**,
Theory Seminar, Max Planck Institute, Munich, June 21, 2004.

SEMINARS (CONTINUED):

43. **Probing the Higgs self-coupling with hadron colliders**,
Theory Seminar, DESY-Zeuthen, Berlin, May 13, 2004.
42. **Probing the Higgs self-coupling with hadron colliders**,
Particle Physics Seminar, Lund University, Sweden, May 3, 2004.
41. **Higgs pair production and the Higgs potential**,
Univ. of Washington Particle Theory seminar, Seattle, Feb. 24, 2004.
40. **Higgs pair production and a Higgs sector potential**,
Univ. of Wisconsin - Madison HEP seminar, Feb. 16, 2004.
39. **Higgs pair production and a Higgs sector potential**,
Fermilab theory seminar, Feb. 12, 2004.
38. **Reconstructing the Higgs Potential**,
Michigan State University HEP seminar, Feb. 10, 2004.
37. **Higgs pair production and the Higgs potential**,
University of Oregon HEP seminar, Jan. 30, 2004.
36. **Studying a Higgs sector potential at future colliders**,
University of Würzburg, Germany, Nov. 20, 2003.
35. **Measuring the Higgs self-coupling at colliders**,
University of Bonn, Germany, Nov. 10, 2003.
34. **Studying a Higgs sector potential at future colliders**,
Institut für Theoretische Physik E, Aachen, Germany, Nov. 4, 2003.
33. **LHC Higgs news: the good, the bad, and the maybe**,
Brookhaven HET/RIKEN seminar, April 9, 2003.
32. **Understanding $t\bar{t} + jets$ backgrounds to Higgs searches**,
ATLAS Higgs Working Group meeting, CERN, Feb. 19, 2003.
31. **Higgs potential measurements at future colliders**,
LHC/LC Study Group meeting, CERN, Feb. 14, 2003.
30. **Higgs potential measurements at future colliders**,
DESY Theory seminar, Jan. 6, 2003.
29. **LHC Higgs physics: recent developments**,
Argonne HEP lunch seminar, April 9, 2002.
28. **QCD radiation in top quark pair production**,
University of Chicago HEP experimental lunch seminar, April 8, 2002.
27. **LHC Higgs physics: recent developments**,
Brookhaven High Energy Theoretical Physics Seminar, March 27, 2002.

SEMINARS (CONTINUED):

26. **$t\bar{t} + jets$ at hadron colliders,**
Fermilab Theory lunch seminar, March 8, 2002.
25. **QCD radiation in $t\bar{t}$ events at hadron colliders,**
Southern Methodist University departmental seminar, Feb. 25, 2002.
24. **Cross section for $H \rightarrow W^+W^-$ studies at the LHC,**
Fermilab CMS group meeting, Oct. 30, 2001.
23. **Top-pions in topcolor assisted technicolor at hadron colliders,**
University of Chicago HEP experimental lunch seminar, Oct. 22, 2001.
22. **In search of...the Higgs boson,**
Tevatron University seminar at Fermilab, Aug. 16, 2001.
21. **The potential for Higgs physics at future colliders,**
SLAC Experimental Seminar, May 30, 2001.
20. **$pp \rightarrow Hjj \rightarrow W^+W^-jj$ as discovery channel at the LHC,**
Fermilab CMS group meeting, March 22, 2001.
19. **$t\bar{t}H$ and $t\bar{t}b\bar{b}$ calculations for the LHC,**
Fermilab CMS group meeting, March 22, 2001.
18. **Prospects for Higgs physics at the LHC,**
High Energy Theory Seminar at Iowa State University, March 18, 2001.
17. **Higgs physics prospects at hadron colliders,**
High Energy Theory Seminar at Purdue Univ., Feb. 13, 2001.
16. **New prospects for Higgs physics at present and future colliders,**
High Energy Theoretical/Experimental Physics Seminar at the Univ. of Illinois - Urbana,
Dec. 4, 2000.
15. **Higgs pair production at the LHC,**
Fermilab CMS group meeting, Aug. 28, 2000.
14. **Prospects for observing $t\bar{t}H$ at Run II,**
BNL HEP lunch seminar, Aug. 4, 2000.
13. **Calculations of $t\bar{t}H$, $t\bar{t}b\bar{b}$, $t\bar{t}c\bar{c}$, and $t\bar{t} + jets$ at the LHC,**
Fermilab CMS group meeting, April 11, 2000.
12. **$t\bar{t}H$ at Tevatron and LHC,**
Fermilab CMS group meeting, March 7, 2000.
11. **Weak boson fusion Higgses at the LHC,**
High Energy Physics and Astrophysics Seminar, Indiana University, Bloomington,
October 4, 1999.

SEMINARS (CONTINUED):

10. **Weak boson fusion Higgses at the LHC**,
Fermilab Theory seminar, Sept. 16, 1999.
9. **Observing an intermediate-mass Higgs boson via weak boson fusion at the CERN LHC**,
Theoretical Particle Physics Seminar, Univ. of Toronto, March 22, 1999.
8. **Observing an intermediate-mass Higgs boson via weak boson fusion at the CERN LHC**,
Theoretical Elementary Particle Physics Seminar, Univ. of Rochester, March 16, 1999.
7. **Observing an intermediate-mass Higgs boson via weak boson fusion at the CERN LHC**,
High Energy Physics Seminar, SUNY - Buffalo, March 15, 1999.
6. **Intermediate mass $VV \rightarrow H \rightarrow \tau\tau$ at the LHC**,
High Energy Theory Seminar at Univ. of California - Riverside, Jan. 11, 1999.
5. **$VV \rightarrow H \rightarrow \tau\tau$ at the LHC: how to see it with $30 fb^{-1}$** ,
High Energy Physics Theory Seminar at Argonne Labs, Nov. 30, 1998.
4. **Standard Model Higgs via Weak Boson Fusion at the LHC**,
Theory Seminar at KEK, July 14, 1998.
3. **Standard Model Higgs via Weak Boson Fusion at the LHC**,
High Energy Theoretical/Experimental Physics Seminar at the University of Illinois - Urbana, April 20, 1998.
2. **Intermediate-mass Higgs bosons via weak boson fusion at the LHC**,
Theoretical Physics Seminar at the Univ. of Kentucky - Lexington, Feb. 9, 1998.
1. **Searching for $H \rightarrow \gamma\gamma$ via weak boson scattering**,
High Energy Physics Seminar, Univ. of Wisconsin - Madison, Oct. 6, 1997.

CONFERENCES AND WORKSHOPS ATTENDED:

Pheno 2007 Symposium, University of Wisconsin, Madison, May 7-9, 2006
LoopFest VI, Fermilab, Chicago, April 16-18, 2007
The LHC Early Phase for the ILC, Fermilab, Chicago, April 12-14, 2007
Beyond the Standard Model Wksp., Univ. of Edinburgh, Scotland, Oct. 31 - Nov. 3, 2006.
PASCOS 2006, Ohio State University, Columbus, OH, Sept. 14-15, 2006
Hadron Collider Physics 2006, Duke Univ., Raleigh, NC, May 22-23, 2006
Pheno 2006 Symposium, University of Wisconsin, Madison, May 15-17, 2006
Argonne workshop on collider physics, Argonne, IL, May 8-12, 2006
TeV4LHC workshop, Fermilab, Chicago, Oct. 20-22, 2005
Collider Physics workshop, Aspen Center for Physics, Colorado, Aug. 15 - Sept. 11, 2005
LoopFest IV, Snowmass, Colorado, Aug. 18-19, 2005
International Linear Collider Workshop, Snowmass, Colorado, Aug. 14-27, 2005
SUSY 2005, University of Durham, England, July 18-23, 2005
Pheno 2005 Symposium, University of Wisconsin, Madison, May 2-4, 2005
TeV4LHC workshop, Brookhaven National Laboratory, Upton, NY, Feb. 3-5, 2005
Physics in the LHC Era, YITP, Kyoto University, Japan, Dec. 13-15, 2004
TeV4LHC workshop, Fermilab, Chicago, Sept. 16-18, 2004
DPF'04, University of California, Riverside, Aug. 26-31
Nordic LHC Workshop 9, Niehls Bohr Institute, Copenhagen, June 16-18, 2004
International Conference on Linear Colliders (LCWS) 2004,
Le Carrè des Science, Paris, April 19-23, 2004
KITP Collider Physics Conference and Workshop, UCSB, Santa Barbara,
Jan. 12 - Feb. 6, 2004
International Workshop on Future Hadron Colliders, Fermilab, Oct. 16-18, 2003
Weak Interactions and Neutrinos Workshop, Lake Geneva, Wisconsin, Oct. 6-11, 2003
Physics at TeV Colliders Workshop, Les Houches, France, May 26 - June 6, 2003
DESY Theory Workshop, Sept. 23-26, 2003
DPF 2003, Philadelphia, April 5-8, 2003
DESY Theory Workshop, Sept. 24-27, 2002
SUSY 2002, 10th International Conference on Supersymmetry and
Unification of Fundamental Interactions, DESY, June 17-23, 2002
LoopFest, Brookhaven National Lab, May 9-10, 2002
Pheno 2002 Symposium, University of Wisconsin, Madison, April 22-24, 2002
Chicago Linear Collider Workshop, Chicago, Illinois, Jan. 7-9, 2002

CONFERENCES AND WORKSHOPS ATTENDED (CONTINUED):

Snowmass 2001, Snowmass, Colorado, June 30 - July 21, 2001
Pheno 2001 Symposium, University of Wisconsin, Madison, May 7-9, 2001
Workshop on the Future of Higgs Physics, Fermilab, May 3-5, 2001
Theory Workshop on Linear Colliders, KEK, Japan, March 15-17, 2001
Top Thinkshop 2, Fermilab, Nov. 10-12, 2000
Linear Collider Workshop 2000, Fermilab, Oct. 24-28, 2000
Radcor 2000: 5th International Symposium on Radiative Corrections,
Carmel, California, Sept. 11-15, 2000
DPF 2000, Ohio State University, Aug. 9-12, 2000
SUSY 2000: 8th International Conference on Supersymmetries in Physics,
CERN, June 26 - July 1, 2000
Pheno 2000 Symposium, University of Wisconsin, Madison, April 17-19, 2000
Berkeley 2000: Workshop on Future e^+e^- Colliders, LBNL, March 29-31, 2000
SUSY '99: 7th International Conference on Supersymmetries in Physics,
Fermilab, June 14-19, 1999
Pheno '99 Symposium, University of Wisconsin, Madison, April 12-14, 1999
Physics at Run II - QCD and Weak Boson Workshop, Fermilab, March 4-6, 1999
DPF '99, UCLA, January 1999
Physics at Run II - Workshop on Supersymmetry/Higgs, Fermilab, Nov. 19-21, 1998
Pheno-CTEQ '98 Symposium, University of Wisconsin, Madison, March 1998
Physics at Run II Workshop - Higgs Bosons, Fermilab, March 21, 1998
Workshop on Physics at the First Muon Collider, Fermilab, Nov. 7, 1997
Pheno '97 Symposium, University of Wisconsin, Madison, March 1997
VLHC Workshop: Physics at the high energy frontier beyond the LHC,
Fermilab, March 1997
CTEQ '96 Symposium, Fermilab, November 1996
DPF '96, Univ. of Minnesota, August 1996
Pheno '96 Symposium, University of Wisconsin, Madison, April 1996
Physics with High Energy e^+e^- Colliders, Fermilab, November 1995

SUMMER SCHOOLS ATTENDED:

CTEQ: Summer School on QCD Analysis and Phenomenology, Lake Geneva,
Wisconsin, May-June 1997
TASI: QCD and Beyond, Univ. of Colorado, Boulder, Colorado, June 1995

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