

## Tim M. P. Tait

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citizenship: dual Canada/U.S.

### Post-doctoral Positions Held:

- 9/2007–present: Assistant Professor(Tenure-track), Department of Physics, Northwestern University (joint with ANL)
- 10/2004–present: Assistant Scientist (Tenure-track), HEP Theory Group, Argonne National Laboratory
- 9/2002–9/2004: Research Associate, Theoretical Physics group, Fermi National Accelerator Laboratory
- 6/1999–8/2002: Research Associate, Theoretical Physics group, Argonne National Laboratory

### Education:

- 1999: Ph.D. Physics, Michigan State University  
Advisor: C.-P. Yuan
- 1993: B.S. Physics, with honors, Summa cum laude,  
University of California, San Diego

### Graduate Fellowships and Assistantships:

- 1999: Degree Completion Fellowship, Michigan State University
- 1997-1999: Research Student, Argonne National Lab
- 1997: Research Assistant, Dept. of Physics, Michigan State University
- 1993-1996: Michigan State University, Herbert T. Graham Scholar

### Undergraduate Fellowships, Assistantships and Other Employment:

- 1992-1993: Lab Assistant, Innova Labs Inc.
- 1991-1992: Lab Assistant, Dept. of Chemistry, University of California, San Diego
- 1989: University of California, Regents, Merit, and Elizabeth Irvine Memorial Scholar

**Professional Activities:**

- Organizer, Argonne Theory Institute 2000,2001, 2002, 2005 and 2006.
- Referee for EPJC, PRD, PRL, PLB, and NPB.
- Convener, Top/EW group of the TeV4LHC Workshop.
- Convener, Higgs working group of Snowmass 2005.
- Convener, Higgs working group of ILCW 2006.
- Convener, LHC/ILC synergy working group of ALCW 2006.
- Convener, Top,  $W$ ,  $Z$ , and Higgs working group of DPF 2006.
- Co-organizer, CERN-Fermilab Summer School for Hadron Collider Physics 2008.

**Publications:**

- 40.** *Top Compositeness at the Tevatron and LHC*  
(with B. Lillie and J. Shu), JHEP **0804**, 087 (2008) [arXiv:0712.3057].
- 39.** *Enhanced Rare Pion Decays from an MeV Model of Dark Matter*  
(with Y. Kahn and M. Schmitt), arXiv:0712.0007.
- 38.** *Kaluza-Klein Gluons as a Diagnostic of Warped Models*  
(with B. Lillie and J. Shu), Phys. Rev. **D76**, 115016 (2007), [arXiv:0706.3960].
- 37.** *Four Generations and Higgs Physics*  
(with G. Kribs, T. Plehn, and M. Spannowsky), Phys. Rev. **D76**, 075016 (2007), [arXiv:0706.3718].
- 36.** *Testing Grand Unification at the (S)LHC*  
(with D. Rainwater), Phys. Rev. **D75**, 115014 (2007), [hep-ph/0701093].
- 35.** *Baryogenesis from an Earlier Phase Transition*  
(with J. Shu and C. Wagner), Phys. Rev. **D75**, 063510 (2007), [hep-ph/0610375].
- 34.** *Measuring the  $W$ - $t$ - $b$  Interaction at the ILC*  
(with P. Batra), Phys. Rev. **D74**, 054021 (2006), [hep-ph/0606068].
- 33.** *Proton Lifetime and Baryon Number Violating Signatures at the LHC in Gauge Extended Models*  
(with D.E. Morrissey, and C.E.M. Wagner), Phys. Rev. **D72**, 095003 (2005), [hep-ph/0508123].
- 32.** *A Fat Higgs with a Fat Top*  
(with A. Delgado), JHEP **0507**, 023 (2005) [hep-ph/0504224].

**Publications (continued):**

- 31.** *Warped Fermions and Precision Tests*  
(with M. Carena, A. Delgado, E. Ponton, and C.E.M. Wagner), Phys. Rev. **D71**, 015010 (2005) [hep-ph/0410344].
- 30.** *Z' Gauge Bosons at the Tevatron*  
(with M. Carena, A. Daleo, and B. Dobrescu), Phys. Rev. **D70**, 093009 (2004) [hep-ph/0408098].
- 29.** *Running into New Territory in SUSY Parameter Space*  
(with P. Batra, A. Delgado, and D.E. Kaplan), JHEP **0406**, 032 (2004) [hep-ph/0404251].
- 28.** *The Higgs Mass Bound in Gauge Extensions of the Minimal Supersymmetric Standard Model*  
(with P. Batra, A. Delgado, and D.E. Kaplan), JHEP **0402**, 043 (2004) [hep-ph/0309149].
- 27.** *The Radionactive Universe*  
(with E. Kolb and G. Servant), JCAP **07**, 008 (2003) [hep-ph/0306159].
- 26.** *Squark Mixing in Electron-Positron Reactions*  
(with E. Berger and J. Lee), Phys. Rev. **D69**, 055003 (2004) [hep-ph/0306110].
- 25.** *Precision Electroweak Data and Unification of Couplings in Warped Extra Dimensions*  
(with M. Carena, A. Delgado, E. Ponton, and C.E.M. Wagner), Phys. Rev. **D68**, 035010 (2003) [hep-ph/0305188].
- 24.** *Opaque Branes in Warped Backgrounds*  
(with M. Carena, E. Ponton, and C.E.M. Wagner), Phys. Rev. **D67**, 096006 (2003) [hep-ph/0212307].
- 23.** *Elastic Scattering and Direct Detection of Kaluza-Klein Dark Matter*  
(with G. Servant), New Journal of Physics **4**, 99 (2002) [hep-ph/0209262].
- 22.** *Branes and Orbifolds are Opaque*  
(with M. Carena and C.E.M. Wagner), Acta Physica Polonica **B33 (9)**, 2355 (2002) [hep-ph/0207056].
- 21.** *Is the Lightest Kaluza-Klein Particle a Viable Dark Matter Candidate?*  
(with G. Servant), Nucl. Phys. **B650**, 391 (2003) [hep-ph/0206071].
- 20.** *Higgs Boson Decay into Hadronic Jets*  
(with E. Berger, C.-W. Chiang, J. Jiang and C.E.M. Wagner), Phys. Rev. **D66**, 095001 (2002) [hep-ph/0205342].

**Publications (continued):**

- 19.** *Probing Heavy Higgs Boson Models with a TeV Linear Collider*  
(with D. Choudhury and C.E.M. Wagner), Phys. Rev. **D65**, 115007 (2002) [hep-ph/0110126].
- 18.** *New Tools for Fermion Masses from Extra Dimensions*  
(with D.E. Kaplan), JHEP **0111**, 51 (2001) [hep-ph/0110126].
- 17.** *Beautiful Mirrors and Precision Electroweak Data*  
(with D. Choudhury and C.E.M. Wagner), Phys. Rev. **D65**, 053002 (2002) [hep-ph/0109097].
- 16.** *Top Quark Seesaw, Vacuum Structure, and Electroweak Precision Constraints*  
(with H.-J. He and C.T. Hill), Phys. Rev. **D65**, 055006 (2002) [hep-ph/0108041].
- 15.** *Low Energy Supersymmetry and the Tevatron Bottom Quark Cross Section*  
(with E.L. Berger, B.W. Harris, D.E. Kaplan, Z. Sullivan and C.E.M. Wagner), Phys. Rev. Lett. **86**, 4231 (2001) [hep-ph/0012001].
- 14.** *Single Top Production as a Window to Physics Beyond the Standard Model*  
(with C.-P. Yuan), Phys. Rev. **D63**, 014018 (2001) [hep-ph/0007298].
- 13.** *Next-to-Leading order SUSY QCD predictions for Associated Production of Gauginos and Gluinos*  
(with E.L. Berger and M. Klasen), Phys. Rev. **D62**, 095014 (2000) [hep-ph/0005196].
- 12.** *Supersymmetry Breaking, Fermion Masses, and a Small Extra Dimension*  
(with D.E. Kaplan), JHEP **0006**, 020 (2000) [hep-ph/0004200].
- 11.** *New Top-flavor Models with Seesaw Mechanism*  
(with H.-J. He and C.-P. Yuan), Phys. Rev. **D62**, 011702 (2000) [hep-ph/9911266].
- 10.** *The  $tW^-$  Mode of Single Top Production*  
Phys. Rev. **D61**, 034001 (2000) [hep-ph/9909352].
- 9.** *Associated Production of Gauginos and Gluinos at Hadron Colliders in Next-to-Leading Order SUSY-QCD*  
(with E.L. Berger and M. Klasen), Phys. Lett. **B459**, 165 (1999) [hep-ph/9902350].
- 8.** *Probing Higgs Bosons with Large Bottom Yukawa Couplings at Hadron Colliders*  
(with C. Balazs, J.L. Diaz-Cruz, H.-J. He, and C.-P. Yuan), Phys. Rev. **D59**, 055016 (1999) [hep-ph/9807349].
- 7.** *Scale Dependence of Squark and Gluino Production Cross Sections*  
(with E.L. Berger and M. Klasen), Phys. Rev. **D59**, 074024 (1999) [hep-ph/9807230].
- 6.** *Higgs Boson with Large Bottom Yukawa Coupling at the Tevatron and LHC*,  
(with J.L. Diaz-Cruz, H.-J. He, and C.-P. Yuan), Phys. Rev. Lett. **80**, 4641 (1998) [hep-ph/9802294].

**Publications (continued):**

5. *The Phenomenology of Single Top Quark Production at the Fermilab Tevatron*  
(with C.-P. Yuan), [hep-ph/9710372].
4. *Anomalous  $W^+W^-t\bar{t}$  Couplings at the  $e^+e^-$  Linear Collider*  
(with F. Larios and C.-P. Yuan), Phys. Rev. **D57**, 3106 (1998) [hep-ph/9709316].
3. *Anomalous  $t$ - $c$ - $g$ : The Connection between Single Top Production and Top Decay*  
(with C.-P. Yuan), Phys. Rev. **D55**, 3106 (1998) [hep-ph/9709316].
2. *A Model of Strong Flavor Dynamics for the Top Quark*  
(with E. Malkawi and C.-P. Yuan), Phys. Lett. **B385**, 304 (1996) [hep-ph/9603349].
1. *Top Quark-Charmed Quark Strong Flavor-Changing Neutral Currents at the Fermilab Tevatron*  
(with E. Malkawi), Phys. Rev. **D54**, 5758 (1996) [hep-ph/9511337].

**Working Group and Conference Proceedings:**

14. *Tev4LHC Report: Top and Electroweak Physics*  
(with C. Gerber et al) [arXiv:0705.3251] .
13. *Supersymmetry Parameter Analysis: SPA Convention and Project*  
(with J.A. Aguilar-Saavedra et al) [hep-ph/0511344] .
12. *Report of the 2005 Snowmass Top/QCD Working Group*  
(with A. Juste et al) [hep-ph/0601112] .
11. *Toward High Precision Higgs-Boson Measurements at the International Linear  $e^+e^-$  Collider*  
(with S. Heinemeyer et al) [hep-ph/0511332] .
10. *Physics at a Fermilab Proton Driver*  
(with M. Albrow et al) [hep-ex/0509019] .
9. *The LHC-LC Study Group Report*  
LHC/LC Study Group [hep-ph/0410364] .
8. *Electroweak Symmetry Breaking by Strong Dynamics and the Collider Phenomenology*  
Contributed to Snowmass 2001 [hep-ph/0201243].
7. *Physics at Future Hadron Colliders*  
Contributed to Snowmass 2001 [hep-ph/0201227].
6. *The Search for Anomalous  $W^+W^-t\bar{t}$  Couplings at the LC,*  
(with F. Larios, and C.-P. Yuan), [hep-ph/0101253].
5. *Report of the Tevatron Higgs Working Group*  
(Higgs Working Group Collaboration) [hep-ph/0010338].
4. *Predictions for Associated Production of Gauginos and Gluinos at NLO in SUSY-QCD*  
(with E.L. Berger and M. Klasen), 35th Rencontres de Moriond [hep-ph/0005199].
3. *Report of the SUGRA Working Group for Run II of the Tevatron*  
(SUGRA Working Group Collaboration) [hep-ph/0003154].
2. *Top Quark Physics*  
(with M. Beneke et al) [hep-ph/0003033].
1. *Top Spin and Experimental Tests*  
(with E.L. Berger) Top Thinkshop for Run II of the Tevatron [hep-ph/0002305].

**Invited Conference Talks:**

- 32.** *What a Higgs can Tell Us*  
Pheno 2008, Madison, WI, April 30, 2008.
- 32.** *Baryogenesis from an Earlier Phase Transition*  
Baryogenesis Confronts the LHC, University of Chicago, November 9, 2007.
- 31.** *Baryogenesis from an Earlier Phase Transition,*  
Eotvos-Cornell 2007 Summer Workshop on Particle Theory, Budapest, Hungary, June 29, 2007
- 30.** *Top-flavored Baryogenesis,*  
Brookhaven Symposium, Brookhaven National Lab, May 30, 2007
- 29.** *The Physics of Top,*  
Hadron Collider Physics 2007, Isola d'Elba, Italy, May 21, 2007
- 28.** *WIMPs: A Particle Theorist's Perspective,*  
Future of TeV Gamma Ray Astronomy, Chicago, May 13, 2007
- 27.** *WIMPs: The non-SUSY Grab Bag,*  
The Hunt for Dark Matter, Fermilab, May 10, 2007
- 26.** *New (and not so New) Z's and the LHC/ILC Connection,*  
Early Phase LHC for ILC, Fermilab, April 14, 2007
- 25.** *No Higgs with  $10 \text{ fb}^{-1}$  at the LHC: Implications for SUSY Models,*  
Early Phase LHC for ILC, Fermilab, April 13, 2007
- 24.** *A Fat Top for the Fat Higgs,*  
SUSY 2006, University of California, Irvine, June 15, 2006
- 23.** *Physics Beyond the Standard Model*  
Hadron Collider Physics, 2006, Duke University, May 23, 2006.
- 22.** *Why a precision  $m_{top}$  is important in the SM and Beyond*  
CDF/D0 Top Mass Workshop, Fermilab, October 11, 2005.
- 21.** *Higgs Working Group Summary*  
Plenary Talk at Snowmass 2005, Snowmass, Colorado, August 27, 2005.
- 20.** *W-t-b at the ILC*  
Top and QCD Working Group, Snowmass 2005, Snowmass Colorado, August 24, 2005.
- 19.** *Theory: Top and Electroweak*  
Tevatron Connections, Fermilab, June 25, 2005.
- 18.** *Vector-like Quarks: Why? How? What?*  
Deep Inelastic Scattering XIII, Madison, Wisconsin, April 28, 2005.
- 17.** *Tevatron Searches (Theoretical Introduction)*  
Meeting of the American Physical Society, Tampa, Florida, April 19, 2005.

**Invited Conference Talks, Continued:**

16. *Physics Beyond the Standard Model at the LHC*  
“Physics Challenges at the LHC Symposium”, University of Chicago, March 14, 2005.
15. *Precision EW Hints for Vector-like fermions?*  
TeV4LHC, Brookhaven National Lab, February 4, 2005.
14. *Basic Lectures on Kaluz-Klein Decompositions*  
Workshop on  $Z'$  Searches, Northwestern University, November 16, 2004.
13.  *$Z'$ s at the Tevatron and LHC*  
TeV4LHC, Fermilab, September 16 - 18, 2004.
12. *Truth (Top Quark Theory Overview)*  
Hadron Collider Physics 2004, East Lansing, Michigan, June 14 - 18, 2004.
11. *Kaluza-Klein Dark Matter at Linear Colliders*  
International LCWS 2004, Paris, France, April 19 - 23, 2004.
10. *Gauge Extensions of the MSSM*  
Aspen winter conference 2004, Aspen, Colorado, Feb. 1 - 7, 2004.
9. *Precision Electroweak Constraints on RS Unification,*  
American Linear Collider Workshop 2003, Ithaca, New York, July 13 - 16, 2003.
8. *Dark Matter from Extra Dimensions,*  
American Linear Collider Workshop 2003, Ithaca, New York, July 13 - 16, 2003.
7. *Kaluza-Klein Dark Matter,*  
Cosmo 2002, Chicago, Illinois, September 18 - 21, 2002.
6. *Anomalous Couplings of the Top Quark,*  
Snowmass 2001, Snowmass, Colorado, June 30 - July 21, 2001.
5. *Fermion Masses from Extra Dimensions,*  
Workshop on the Future of Higgs Physics, Fermilab, May 4, 2000.
4. *Hunting for New Physics with Top,*  
Top Thinkshop<sup>2</sup>, Fermilab, Nov. 10-12, 2000.
3. *Topflavor Models,*  
Top Thinkshop<sup>2</sup>, Fermilab, Nov. 10-12, 2000.
2. *New Physics in the Weak Interactions of Top,*  
Top Thinkshop<sup>2</sup>, Fermilab, Nov. 10-12, 2000.
1. *Top Polarization and the Top Decay Products,*  
Top Thinkshop, Fermilab, Oct. 16-17, 1998.

**Contributed Conference Talks:**

14. *A Chiral Fourth Generation*,  
Pheno 2007 Symposium, Madison, Wisconsin, May 8, 2007
13. *A Fat Top for the Fat Higgs*,  
Pheno 2006 Symposium, Madison, Wisconsin, May 16, 2006
12. *Running into New Territory of the SUSY World*,  
Argonne Theory Institute 2004, Argonne, Illinois, May 24-28 , 2004
11. *Opaque Branes in Warped Backgrounds*,  
Pheno 2003 Symposium, Madison, Wisconsin, May 5, 2003
10. *Branes and Orbifolds are Opaque*,  
Extra Dimensions and Beyond, Santa Fe, New Mexico, August 4-11, 2002
9. *Beautiful Mirrors*,  
Pheno 2002 Symposium, Madison, Wisconsin, April 22-24, 2002
8. *Extra-dimensional Flavor*,  
Argonne Theory Institute 2001, Argonne, Illinois, June 17-29 , 2001
7. *Could there be New Physics in the Tevatron Bottom Cross Section?*,  
Pheno 2001 Symposium, Madison, Wisconsin, May 7-9, 2001
6. *The Search for Anomalous  $W^+W^-t\bar{t}$  Couplings at the LC*,  
Linear Collider Workshop 2000, Fermilab, Oct. 24-28, 2000
5. *Flavor and Supersymmetry-breaking from an Extra Dimension*,  
Argonne Theory Institute 2000, Argonne, Illinois, April 25 - May 12 , 2000
4. *A Supersymmetric Model of Flavor From Extra Dimensions*,  
Pheno 2000 Symposium, Madison, Wisconsin, April 17-19, 2000
3. *Associated Hadroproduction of a Gaugino with a Gluino in NLO SUSY QCD*,  
SUSY '99, Fermilab, June 14-19, 1999
2.  *$\phi$ - $b$ - $b$  Production in the MSSM*,  
Physics at Run II - Workshop on Supersymmetry/Higgs, Fermilab, Nov. 19-21, 1998
1. *Probing New Physics via Single Top Production*,  
Pheno-CTEQ Symposium '98, Madison, Wisconsin, March 1998

**Seminars and Colloquia:****79.** *Why look for the Higgs?*

Colloquium, Aspen Center for Physics August 7, 2008.

**79.** *Manifestations of a Composite Top*

High Energy Seminar, Duke University May 19, 2008.

**78.** *Manifestations of a Composite Top*

KITP, UC Santa Barbara, April 24, 2008.

**77.** *Fun with Top Compositeness*

HEP Theory Seminar, Boston University March 31, 2008.

**76.** *A Composite Top at the LHC*

HEP Seminar, Northwestern University February 4, 2008.

**75.** *Fun with Top Compositeness*

HEP Lunch Seminar Seminar, Argonne November 27, 2007.

**74.** *Baryogenesis from an Earlier Phase Transition*

High Energy Physics Theory Seminar, University of Edinburgh November 21, 2007.

**73.** *Fun with Top Compositeness*

High Energy Physics Theory Seminar, SLAC October 31, 2007.

**72.** *A Chiral Fourth Family Meets Precision and Higgs Physics*

High Energy Theory Seminar, University of Michigan October 19, 2007.

**71.** *A Chiral Fourth Family Meets Precision and Higgs Physics*

Particle Seminar, Columbia University October 10, 2007.

**70.** *Baryogenesis from an Earlier Phase Transition*

Theory Seminar, Laboratoire d'Annecy-le-Vieux de la Physique July 5, 2007.

**69.** *Baryogenesis from an Earlier Phase Transition*

High Energy Physics Seminar, University of Wisconsin, February 23, 2007.

**Seminars (continued):**

- 68.** *Baryogenesis from an Earlier Phase Transition*  
High Energy Physics Wine & Cheese, Stanford University, February 16, 2007.
- 67.** *Baryogenesis from an Earlier Phase Transition*  
Physics Department Seminar, Northwestern University, February 12, 2007.
- 66.** *Baryogenesis from an Earlier Phase Transition*  
High Energy Physics Division Seminar, Argonne National Lab, February 7, 2007.
- 65.** *Baryogenesis from an Earlier Phase Transition*  
High Energy Physics Seminar, University of Arizona, December 7, 2006.
- 64.** *Understanding Dark Matter with the LHC*  
Physics Colloquium, University of Utah, November 9, 2006.
- 63.** *Baryogenesis from an Earlier Phase Transition*  
High Energy Theory Seminar, University of Delaware / Bartol Institute October 12, 2006.
- 62.** *Baryogenesis from an Earlier Phase Transition*  
Journal Club, Michigan State University, September 27, 2006.
- 61.** *Using High Energy Experiments to Understand the Universe*  
General Lab Colloquium, Fermilab, August 16, 2006.
- 60.** *New Directions in Supersymmetry*  
CDF SUSY Working Group, Fermilab, July 10, 2006.
- 59.** *Kaluza-Klein Dark Matter*  
High Energy Physics Seminar, University of Maryland, February 8, 2006.
- 58.** *Gauge Extension of the MSSM*  
High Energy Physics Seminar University of Pennsylvania, December 1, 2005.
- 57.** *Exploring Warped Spaces*  
Theory Seminar at Brookhaven National Laboratory, September 28, 2005.
- 56.** *Dark Matter Candidates from Extra Dimensions*  
TeV Particle Astrophysics Workshop, Fermilab July 14, 2005.
- 55.** *Precision Electroweak Data: Hints for Physics Beyond the Standard Model?*  
Physics Colloquium, Argonne National Lab May 27, 2005.
- 54.** *Exotic Top Decays*  
CDF Collaboration (Top Working Group), Fermilab May 20, 2005.
- 53.** *Exotic Top Decays*  
D0 Collaboration (Top Working Group), Fermilab May 6, 2005.

**Seminars (continued):****52.** *Z-prime Searches at the Tevatron*

High Energy Physics Seminar, University of Illinois, Urbana Champaign, April 25, 2005.

**51.** *Dark Matter from Hidden Dimensions*

Physics Seminar, UC Davis, March 11, 2005.

**50.** *Searching for Z-primes at the Tevatron*

Argonne HEP Division Lunch Seminar, Argonne, March 1, 2005.

**49.** *Kaluza-Klein Dark Matter*

High Energy Physics seminar, Università di Cagliari (Italy), February 16, 2005.

**48.** *Z-prime Searches at the Tevatron*

High Energy Physics Colloquium, Fermilab February 11, 2005.

**47.** *Gauge Extension of the MSSM*

Theory Seminar, Lawrence Berkeley Lab, November 1, 2004.

**46.** *The SUSY Little Hierarchy Problem*

Theory Seminar, Purdue University, October 26, 2004.

**45.** *Running into new Territory of the SUSY World*

Theory Seminar, Cornell University, September 29, 2004.

**44.** *Gauge Extension of the MSSM*

Theory Seminar, Saclay, France, April 28, 2004.

**43.** *Gauge Extension of the MSSM*

Theory Seminar, Orsay, France, April 27, 2004.

**42.** *An Informal Introduction to KK Dark Matter*

Theory Seminar, Annecy, France, April 26, 2004.

**41.** *The MSSM Higgs mass and Gauge Extensions*

EFI Seminar, University of Chicago, March 29, 2004.

**40.** *Dark Matter from Extra Dimensions*

Physics Colloquium, University of British Columbia, March 5, 2004.

**39.** *Kaluza-Klein Dark Matter,*

Physics Colloquium, Simon Fraser University, Feb. 12, 2004.

**38.** *Gauge Extensions of the MSSM and the Higgs Mass,*

Fermilab Theory seminar, Jan. 29, 2004.

**37.** *Gauge Extensions of the MSSM,*

Theory seminar at University of Minnesota, Jan. 22, 2004.

**Seminars (continued):**

36. *Beautiful Mirrors and Precision Electroweak Data*,  
Physics seminar at TRIUMF, Nov. 13, 2003.
35. *The Light Higgs Mass Bound in Gauge Extensions of the MSSM*  
HEP Theory Seminar, Argonne National Lab October 14, 2003.
34. *The More or Less Minimal Supersymmetric Standard Model*,  
HEP Seminar, University of Illinois, Urbana-Champaign October 13, 2003.
33. *Dark Matter from Extra Dimensions*,  
HEP Seminar, Michigan State University September 30, 2003.
32. *Kaluza-Klein Dark Matter*,  
Theory Seminar, SLAC May 14, 2003.
31. *Precision Electroweak Data and New Physics for the Tevatron*,  
Joint Theoretical/Experimental Colloquium, Fermilab, May 9, 2003.
30. *Kaluza-Klein Dark Matter*,  
High Energy Physics Seminar, Northwestern University March 21, 2003.
29. *Kaluza-Klein Dark Matter*,  
Astrophysics Seminar, Fermilab February 3, 2003.
28. *Branes and Orbifolds are Opaque*,  
High Energy Physics Seminar, University of Wisconsin, Madison January 31, 2003.
27. *Branes and Orbifolds are Opaque*,  
High Energy-Astro Seminar, Ohio State University January 22, 2003.
26. *Exploring TeV Extra Dimensions*,  
Monday High Energy Physics Seminar, University of Chicago January 13, 2003.
25. *Beautiful Mirrors: New Physics for Run II*,  
presented to the D0 Top Working Group, December 19, 2002.
24. *LEP Hints for New Physics at Tevatron*,  
presented to the CDF Exotics Working Group, October 22, 2002.
23. *Beautiful Mirrors*,  
High Energy Physics seminar, Università di Cagliari (Italy) October 4, 2002.
22. *Fermion Masses and Supersymmetry in Five Dimensions*,  
High Energy Physics Tuesday seminar, Harvard University, April 9, 2002.
21. *Fermion Masses and Supersymmetry in Five Dimensions*,  
Particle Physics Research seminar, Massachusetts Institute of Technology, April 8, 2002.

**Seminars (continued):**

20. *Flavor and Supersymmetry Breaking in Extra Dimensions*,  
Theoretical High Energy Physics seminar, Los Alamos National Lab, March 22, 2002.
19. *Beautiful Mirrors and Precision Electroweak Data*,  
Theoretical/Experimental High Energy Physics seminar, Southern Methodist University, January 28, 2002.
18. *Flavor from Extra Dimensions*,  
High Energy Theoretical seminar, Yale University, December 4, 2001.
17. *Beautiful Mirrors and Precision Electroweak Data*,  
High Energy Theoretical/Experimental seminar, University of Illinois at Chicago, November 26, 2001.
16. *New Tools for Fermion Masses from Extra Dimensions*,  
High Energy Theoretical/Experimental seminar, University of Wisconsin, Madison, November 16, 2001.
15. *Unification of Couplings, Exotic Quarks, and Precision Electroweak Data*,  
HEP Division Seminar, Argonne National Lab, November 7, 2001.
14. *Beautiful Mirrors and Precision Electroweak Data*,  
High Energy Physics seminar, University of Illinois at Urbana-Champaign, November 5, 2001.
13. *Supersymmetry and the Bottom Quark Cross Section*,  
Joint Theoretical/Experimental Colloquium, Fermi National Accelerator Laboratory, June 1, 2001.
12. *Flavor and Supersymmetry-breaking from Extra Dimensions*,  
High Energy Seminar at Michigan State University, Dec 6, 2000.
11. *Why the World doesn't Fall Apart: The Mystery of Electroweak Symmetry Breaking*,  
Tevatron University lecture, Fermilab, Jan 18, 2001.
10. *Flavor and Supersymmetry-breaking from a Small Extra Dimension*,  
Theory Seminar at Brookhaven National Laboratory, Dec 6, 2000.
9. *A Supersymmetric Model of Flavor in Extra Dimensions*,  
Theory Seminar at Fermi National Accelerator Laboratory, May 11, 2000.
8. *Top Quark: A key player in the Electroweak Symmetry Breaking?*,  
High Energy Theoretical/Experimental seminar at Purdue University, Oct. 19, 1999.
7. *Top Quark as a Window to the Electroweak Symmetry Breaking*,  
High Energy Theoretical/Experimental seminar at Indiana University, Oct. 18, 1999.

**Seminars (continued):**

6. *NLO Associated Production of a Gaugino with a Gluino at a Hadron Collider*, Physics seminar at TRIUMF, Feb. 9, 1999.
5. *NLO Hadroproduction of a Gaugino with a Gluino*, High Energy seminar at Michigan State University, Feb. 2, 1999.
4. *The Heavy Third Family and the Electroweak Symmetry-Breaking*, High Energy Theoretical/Experimental seminar, University of Wisconsin, Madison, December 12, 1998.
3. *The Top Quark as a Window to New Physics*, Student Seminar at TASI-97, June 20, 1997.
2. *Probing New Physics from Top Quark Interactions*, Theory Seminar at Argonne National Laboratory, March 3, 1997.
1. *Top-Charm FCNCs at the Tevatron*, High Energy Physics Seminar at Michigan State University, Dec. 9, 1995.

**Conferences and Workshops Attended:**

- Baryogenesis Confronts the LHC, University of Chicago, November 7-9, 2007.
- American Linear Collider 2007, Fermilab, October 22-26, 2007.
- Eotvos-Cornell Summer Workshop on Particle Theory, Budapest, Hungary, June 25-29, 2007.
- Les Houches, Beyond SUSY, Les Houches, France, June 22-29, 2007.
- Hadron Collider Physics 2007, Isola d'Elba, Italy, May 21-25, 2007.
- Brookhaven Symposium 2007, Brookhaven National Lab, May 30-June 1, 2007
- Future TeV Gamma Ray Observatories, Chicago, Illinois, May 13-14, 2007.
- The Hunt for Dark Matter, Fermilab, May 10-12, 2007.
- Pheno 2007, Madison, Wisconsin, May 7-9, 2007.
- Early Phase LHC for the ILC, Fermilab, April 12-14, 2007.
- Aspen Workshop on Collider Physics 2006, Aspen CO, August 8-26, 2006.
- SUSY 2006, University of California, Irvine, June 11-17, 2006.
- Hadron Collider Physics 2006, Duke University, NC, May 21-26, 2006.
- Pheno 2006, Madison Wisconsin, May 15-17, 2006.
- Argonne Theory Institute 2006, Argonne, IL, May 8-12, 2006.

**Conferences and Workshops, continued:**

- Monte Carlo for Beyond the SM, Fermilab, March 20-21, 2006.
- Snowmass 2005, Snowmass, Colorado, August 15-27, 2005
- TeV Particle Astrophysics Workshop, Fermilab, July 14-16, 2005
- Tevatron Connections, Fermilab, June 24-25, 2005
- XIIIth International Conference on Deep Inelastic Scattering, Madison WI, April 27 - May 1, 2005
- April 2005 Meeting of the American Physical Society, Tampa FL, April 16-19, 2005
- TeV4LHC Workshop, Brookhaven National Lab, February 3-5, 2005
- TeV4LHC Workshop, Fermilab, September 16-18, 2004
- Hadron Collider Physics, East Lansing, Michigan, June 14-18, 2004
- International Linear Collider Workshop, Paris, France, Feb. 19-23, 2004
- Aspen Winter Conference 2004, Aspen Colorado, Feb. 1-7, 2004
- Future Hadron Collider Workshop, Fermilab, October 16-20, 2003.
- American Linear Collider Workshop, Ithaca, New York, July 13-16, 2003.
- Physics at the Tev Scale, Aspen, CO, June 23 - July 13, 2003.
- Pheno 2003 Symposium, Madison, Wisconsin, May 5-7, 2003.
- LHC/LC Physics working group meeting, Fermilab Dec. 12-13, 2002.
- Neutrino News from the Lab and the Cosmos, Fermilab, Oct. 17-19, 2002.
- Cosmo '02, Chicago, Illinois, September 18-21, 2002.
- Extra Dimensions and Beyond, Santa Fe, New Mexico, August 4-11, 2002.
- Pheno 2002 Symposium, Madison, Wisconsin, May 24-26, 2002.
- Snowmass 2001, Snowmass, Colorado, June 30 - July 21, 2001.
- Argonne Theory Institute 2001, Argonne, Illinois, June 17-29, 2001.
- Pheno 2001 Symposium, Madison, Wisconsin, May 7-9, 2001.
- Workshop on the Future of Higgs Physics, Fermilab, May 3-5, 2001.
- Top Thinkshop<sup>2</sup>, Fermilab, Nov. 10-12, 2000.
- Linear Collider Workshop 2000, Fermilab, Oct. 24-28, 2000.

**Conferences and Workshops, continued:**

Physics at the Weak Scale and Beyond, Aspen, CO, August 20 - September 10, 2000.

Argonne Theory Institute 2000, Argonne, Illinois, April 25 - May 12 , 2000.

Pheno 2000 Symposium, Madison, Wisconsin, April 17-19, 2000.

SUSY '99, Fermilab, June 14-19, 1999.

Physics at Run II - Workshop on Supersymmetry/Higgs, Fermilab, Nov. 19-21, 1998.

Top Thinkshop, Fermilab, Oct. 16-17, 1998.

Pheno-CTEQ Symposium '98, Madison, Wisconsin, 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.

CTEQ '96 Symposium, Fermilab, November 1996.

**Summer Schools Attended:**

TASI: Supersymmetry, Supergravity, and Supercolliders (as a student), Univ. of Colorado, Boulder, Colorado, June 1997

CTEQ 2004: Summer School on Perturbative QCD and Phenomenology (as a lecturer: "Single Top and New Physics") University of Wisconsin, Madison, Wisconsin, June 2004

Topical Seminar on Frontier of Particle Physics 2005: Heavy Flavor Physics (as a lecturer: "The Truth about Top"), Beijing, China, August 2005

SLAC Summer Institute 2006: Exploring with the LHC (as a lecturer: "Top and Electroweak Physics"), SLAC, California, July 2006

TASI 208: The Dawn of the LHC (as a lecturer: "The Physics of Resonances"), Univ. of Colorado, Boulder, Colorado, June 2008

## REFERENCES

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