

Patrick Meade

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ACADEMIC POSITIONS ◇ **Member (Postdoctoral Fellow)**

School of Natural Sciences
Institute for Advanced Study
September 2007-August 2010

- ◇ **Postdoctoral Fellow**
Harvard University
August 2006-August 2007

EDUCATION ◇ **Cornell University**, Ithaca, NY
2002–2006

PhD Theoretical Physics August 2006
Advisor: Csaba Csáki

- ◇ **College of William & Mary**, Williamsburg, VA
1998–2002

BS Mathematics BS Physics
Advisor: Christopher Carone

- ◇ **Thomas Jefferson High School for Science & Technology**, Alexandria, VA
1994–1998

PAPERS

1. “*Dark Matter Sees The Light*”,
with M. Papucci and T. Volansky
arXiv:0901.2925
2. “*Exploring General Gauge Mediation*”,
with M. Buican, N. Seiberg and D. Shih
arXiv:0812.3668
3. “*General Gauge Mediation*”,
with N. Seiberg and D. Shih
arXiv:0801.3278
4. “*Black Holes and Quantum Gravity at the LHC*”,
with L. Randall.
JHEP 0805, 003 (2008)
5. “*BRIDGE: Branching Ratio Inquiry/Decay Generated Events*”,
with M. Reece.
hep-ph/0703031
6. “*Top Partners at the LHC: Spin and Mass Measurement*”,
with M. Reece.
Phys.Rev.D74:015010,2006

7. “TASI Lectures on Electroweak Symmetry Breaking from Extra Dimensions”,
with C. Csáki and J. Hubisz.
Proceedings of TASI 2004.
hep-ph/0510275
8. “Electroweak Precision Constraints on the Littlest Higgs with T-parity”,
with J. Hubisz, A. Noble, M. Perelstein.
JHEP 0601:135,2006
9. “Phenomenology of the Littlest Higgs with T-parity”,
with J. Hubisz.
Phys.Rev.D71:035016,2005
10. “A Mixed Phase of SUSY Gauge Theories from a-maximization”,
with C. Csáki and J. Terning.
JHEP 0404:040,2004
11. “Electroweak Constraints on Little Higgs Models”,
To appear in the Proceedings of SUSY 2003, held at the University of Arizona,
Tucson, AZ, 5-10 June 2003.
hep-ph/0402036
12. “Variations of little Higgs models and their electroweak constraints”,
with C. Csáki, J. Hubisz, G. D. Kribs, and J. Terning.
Phys.Rev.D68:035009,2003
13. “Big corrections from a little Higgs”,
with C. Csáki, J. Hubisz, G. D. Kribs, and J. Terning.
Phys.Rev.D67:115002,2003
14. “Neutrino Oscillations through Extra Dimensions and Symmetries”,
Senior Honors Thesis, College of William and Mary, May 2002.
15. “Shells of Matrices in Indefinite Inner Products”,
with V. Bolotnikov, C.Li, C. Mehl, L.Rodman.
Electronic Journal of Linear Algebra, 9(2002), 67-92
16. “U(2)-like Flavor Symmetries and Approximate Bimaximal Neutrino Mixing”,
with A. Aranda, C. Carone.
Phys.Rev.D65:013011, 2002
17. “Research Problem: Indefinite Inner Product Normal Matrices”,
with B.Lins, C. Mehl, L. Rodman.
Linear and Multilinear Algebra, 49(2001) no.3, 261-268
18. “Polar Decompositions of indecomposable normal matrices in indefinite
inner products: Explicit formulas and open problems”,
with B.Lins, C. Mehl, and L.Rodman.
Preprint 2000-9
Fakultat fur Matematik, Technische Universitat Chemnitz, Germany, August 2000
19. “Normal Matrices and Polar decompositions in Indefinite Inner Products”,
with B.Lins, C. Mehl, L.Rodman.
Linear and Multilinear Algebra, 49(2001) no.1, 345-89

TALKS
GIVEN

- Conference Talk, February 2009
LHC International Science Forum, Heidelberg, Germany
- High Energy Theory Seminar, February 2009
University of Minnesota
- High Energy Theory Seminar, January 2009
UC Irvine

- High Energy Theory Seminar, October 2008
Brookhaven National Laboratory
- High Energy Theory Seminar, April 2008
University of Arizona
- High Energy Theory Seminar, April 2008
University of Texas, Austin
- KITP LHC Workshop, March 2008
KITP Santa Barbara
- LHC Focus Week, December 2008
IPMU, Japan
- High Energy Theory Seminar, December 2007
Rutgers University
- High Energy Theory Seminar, November 2007
University of California - Berkeley
- High Energy Theory Seminar, October 2007
Johns Hopkins University
- Eotvos-Cornell Summer Workshop, June 2007
“BRIDGE”
Eotvos University, Budapest
- Edinburgh Ultra-Mini Workshop, March 2007
“Model vs Model Degeneracies??”
University of Edinburgh
- LHC Olympics/MC4BSM, March 2007
“Generation and Solution of the Cornell/Harvard Black Box”
Princeton University
- LHC Olympics, August 2006
“BSM Event Generators: Status, Prospects and a New Black Box”
KITP Santa Barbara
- Aspen Workshop, August 2006
“Top Partners at the LHC”
Aspen Center for Physics
- High Energy Physics Seminar, April 2006
“A model independent approach to LHC phenomenology”
UC Davis
- High Energy Physics Seminar, March 2006
“A model independent approach to LHC phenomenology”
University of Toronto
- Phenomenology seminar, February 2006
“A model independent approach to LHC phenomenology”
University of Florida
- LHC Olympics, February 2006
“A model independent approach to LHC phenomenology”
CERN
- Phenomenology seminar, December 2005
“A model dependent and independent look at LHC phenomenology”
Princeton University
- Phenomenology seminar, November 2005
“A model dependent and independent look at LHC phenomenology”
Harvard University

- Particle theory seminar, November 2005
“A model dependent and independent look at LHC phenomenology”
Boston University
- Particle theory seminar, November 2005
“A model dependent and independent look at LHC phenomenology”
University of Washington
- SUSY 2005, July 2005
“Little Higgs and T-parity: a reason experimentalists
need to know more than the MSSM”
IPPP Durham, UK
- PHENO 05, May 2005
“Phenomenology of the Littlest Higgs with T-parity”
University of Wisconsin, Madison.
- Syracuse-Cornell Collaboration Theory Meeting, January 2005
“Phenomenology of the Littlest Higgs with T-parity”
Cornell University
- TASI student seminar, June 2004
“Evidence for a new phase of SUSY gauge theory”
University of Colorado at Boulder
- Particle Theory Journal Club, March 2004
“Evidence for a new phase of SUSY gauge theory”
Cornell University
- Syracuse-Cornell Collaboration Theory Meeting, December 2003
“Towards a Classification of SUSY gauge theories”
Cornell University
- Particle Theory Seminar, August 2003
“Electroweak Constraints on Little Higgs Models”
College of William & Mary
- SUSY 2003, June 2003
“Electroweak Constraints on Little Higgs Models”
Tucson, AZ
- Particle Theory Journal Club, November 2002
“Electroweak Constraints on Little Higgs Models”
Cornell University
- SES-APS Annual Meeting, November 2001
“U(2)-like Flavor Symmetries and Approximate Bimaximal Neutrino Mixing”
UVA
- 2001 Verizon Undergraduate Research Symposium, September 2001
“U(2)-like Flavor Symmetries and Approximate Bimaximal Neutrino Mixing”
College of William & Mary
- Spring 2001 MAA Section Meeting MD-DC-VA, April 2001
“Polar Decompositions with respect to Indefinite Inner Products”
VMI
- 2000 Verizon Undergraduate Research Symposium, September 2000
“Polar Decompositions with respect to Indefinite Inner Products”
College of William & Mary
- 1998 NASA URC-TC, May 1998
“The effectiveness of Secondary School Students in Variable Star Analysis”
Huntsville, Alabama

CONFERENCES/
WORKSHOPS
ATTENDED

- LHC International Science Forum, February 2009
IWH Heidelberg, Germany
- Aspen Summer Workshop, July-August 2008
Aspen Center for Physics
- KITP LHC Program, March 2008
KITP-UCSB
- LHC Focus Week, December 2007
IPMU, Japan
- CERN Theory Institute, August 2007
“BSM Institute: New Physics and the LHC”
CERN
- Cornell-Eotvos Summer Workshop, June 2007
“Beyond the Standard Model at the Dawn of the LHC Era”
Eotvos University, Budapest
- Edinburgh Ultra-Mini Workshop, March 2007
“Physics in High Dimensional Spaces”
University of Edinburgh
- MC4BSM/LHC Olympics, March 2007
Princeton University
- LHC Olympics, August 2006
KITP-UCSB
- Aspen Summer Workshop, August 2007
“Particle Theory in Anticipation of the LHC” Aspen Center for Physics
- MC4BSM, March 2006
Fermilab
- LHC Olympics, February 2006
CERN
- SUSY 2005, July 2005
Durham, UK
- 55th Meeting of Nobel Laureates and Students, June 2005
Lindau, Germany
- PHENO 2005, May 2005
Madison, Wisconsin
- Santa Fe 2004 Summer Workshop
“Beyond the Higgs”
Santa Fe, New Mexico
- SUSY 2003, June 2003
Tucson, Arizona
- DPF 2002, May 2002
College of William & Mary
- SES-APS Annual Meeting, November 2001
UVA
- Spring 2001 MAA Section Meeting MD-DC-VA, April 2001
VMI
- 1998 NASA URC-TC, May 1998
Huntsville, Alabama

SCHOOLS
ATTENDED

- “Physics in $D \geq 4$ ”
Theoretical Advanced Studies Institute (TASI) 2004
University of Colorado at Boulder
- organizer for student seminars
- “Cosmology, Particles, and Strings”
Prospects in Theoretical Physics 2003
Institute for Advanced Study, Princeton, NJ

LONG TERM
VISITOR

- T-8 Particle Theory Group
Los Alamos National Laboratory
July-August 2004

REFERENCES

- Prof. Nima Arkani-Hamed
Institute for Advanced Study
1 Einstein Dr.
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- Prof. Csaba Csáki
Department of Physics
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