

CURRICULUM VITAE

Ken Hsieh

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Education

- Ph. D. in Physics, May 2007
University of Maryland, College Park
Advisors: Drs. Markus A. Luty and Rabindra N. Mohapatra
- B. A. in Physics (*Summa Cum Laude*) and Mathematics, May 2002
Washington University, St. Louis
Advisor: Dr. Clifford M. Will

Professional Experience

- 2007—2009 Postdoctoral Researcher, Department of Physics, Michigan State University
- 2004—2007 Research Assistant, Elementary Particles Group, University of Maryland
- 2002—2007 Teaching Assistant, Department of Physics, University of Maryland
- 2000—2002 Undergraduate Research Assistant, Gravity Group, Washington University

Teaching Experience

- 2007—2009: Occasional substitute lecturer for undergraduate courses and group-wide quantum field theory course
- 2002—2007: Teaching Assistant for:
Phys. 107: Light, Perception, Photography and Visual Phenomena (Lab.)
Phys. 115: Inquiry into Physics
Phys. 121: Fundamentals of Physics I (Recitation and Lab.)
Phys. 122: Fundamentals of Physics II (Recitation and Lab.)
Phys. 261: Vibrations, Waves, Heat, Electricity and Magnetism (Lab.)
Phys. 271: Electrodynamics, Light, Relativity and Modern Physics (Lab.)
- 2001—2002: Tutor / teaching assistant of physics and mathematics for Washington University Student Education Services

Conference / Invited Presentations

- May 2009, Pheno 09 (Madison, WI):
“Z to bb in Higgsless Models”
- October 2008, Argonne National Laboratory (Chicago, IL):
“Lone Higgs at the LHC.”

- April 2008, Pheno 08 (Madison, WI):
“Lone Higgs at the LHC.”
- October 2006, APS Annual Meeting: the Division of Nuclear Physics (Nashville, TN):
“Two-Component Dark Matter in UED Models.”
- June 2006, Theoretical Advanced Study Institute in Elementary Particle Physics (TASI):
Neutrino and Collider Physics (Boulder, CO).
Talk given at the Student Seminars: “Two-Component Dark Matter in UED Models.”

References

- **Professor Chien-Peng Yuan**
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- **Professor R. Sekhar Chivukula**
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- **Professor Markus A. Luty**
Department of Physics
University of California, Davis
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- **Professor Rabindra N. Mohapatra**
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Papers and Publications

- **Mathematica with ROOT**
K. Hsieh, T. G. Throwe, and S. White
arXiv:1102.5068 [physics.data-an]
- **Global analysis of general $SU(2)\times SU(2)\times U(1)$ models with precision data**
K. Hsieh, K. Schmitz, J.-H. Yu, and C.-P. Yuan
Phys. Rev. **D82**, 035011 (2010). arXiv:1003.3482 [hep-ph]
- **Z to bb and chiral currents in Higgsless models**
T. Abe, R. S. Chivukula, N.D. Christensen, K. Hsieh, S. Matsuzaki, E.H. Simmons,
and M. Tanabashi
Phys. Rev. **D79**, 075016 (2009). arXiv:0902.3910 [hep-ph]
- **Lone Higgs at the CERN LHC.**
K. Hsieh and C.-P. Yuan
Phys. Rev. **D78**, 053006 (2008). arXiv:0806.2608 [hep-ph].
- **Triplet-extended supersymmetric standard model.**
S. DiChiara and K. Hsieh
Phys. Rev. **D78**, 0550016 (2008). arXiv:0805.2623 [hep-ph].
- **Pseudo-Dirac bino dark matter.**
K. Hsieh
Phys. Rev. **D77**, 015004 (2007). arXiv:0708.3970 [hep-ph].
- **Mixed dark matter in universal extra dimension models with TeV scale W_R and Z' .**
K. Hsieh, R. N. Mohapatra, and S. Nasri
JHEP **0612**, 067 (2006). hep-ph/0610155.
- **Mixed gauge and anomaly mediation from new physics at 10-TeV.**
K. Hsieh and M. A. Luty
JHEP **0706**, 062 (2007). hep-ph/0604256.
- **Dark matter in universal extra dimension models: Kaluza-Klein photon and right-handed neutrino admixture.**
K. Hsieh, R. N. Mohapatra and S. Nasri
Phys. Rev. **D74**, 066004 (2006). hep-ph/0604154.