



WILLIAM I. FINE THEORETICAL PHYSICS INSTITUTE

Frontiers Beyond the Standard Model II

October 14-17, 2004

Thursday, October 14, 2004 (Stephen Gasiorowicz Seminar Room 435)

8:15 a.m. REGISTRATION

8:55 - 9:00 Keith Olive, University of Minnesota
Welcome

Session Chair: K. Olive

9:00 - 9:45 a.m. Ignatios Antoniadis, CERN
"Splitting Supersymmetry in String Theory"

9:45 - 10:30 Emilian Dudas, Ecole Polytechnique
"On Tadpoles and Vacuum Redefinitions in Field and String Theory"

10:30 - 11:00 COFFEE BREAK

11:00 - 11:45 Keith Dienes, University of Arizona
"A String Theorist Tampers with the Laws of Thermodynamics"

11:45 - 12:30 Tomasz Taylor, Northeastern University
"SUSY Breaking and Mass Generation for D-brane Excitations"

12:30 - 2:00 p.m. LUNCH

Session Chair: M. Voloshin

2:00 - 2:45 p.m. James Wells, University of Michigan
"First-order Electroweak Phase Transition in a Low-cutoff Theory"

2:45 - 3:30 Maxim Pospelov, University of Guelph/Perimeter Institute
"Supersymmetric Theories in the Presence of Lorentz Violation"

3:30 - 4:00 COFFEE BREAK

4:00 - 4:45 Kaustubh Agashe, Johns Hopkins University
"Warped Unification, Proton Stability and Dark Matter"

4:45 - 5:30 Graham Kribs, IAS
"Composite Unification"

Friday, October 15, 2004 (Stephen Gasiorowicz Seminar Room 435)

Session Chair: V. Spanos

- 9:00 - 9:45 a.m. **Csaba Csaki**, Cornell University
"Higgsless Electroweak Symmetry Breaking"
- 9:45 - 10:30 **Jay Wacker**, Stanford University
"LH in RS"
- 10:30 - 11:00 COFFEE BREAK
- 11:00 - 11:45 **Maxim Perelstein**, Cornell University
"Model-Independent Predictions for WIMP Searches"
- 11:45 - 12:30 **Christopher Hill**, Fermilab
"Deconstructing Topology"
- 12:30 - 2:00 p.m. LUNCH

Session Chair: S. Groot Nibbelink

- 2:00 - 2:45 p.m. **Martin Schmaltz**, Boston University
"Hiding SUSY Breaking with Conformal Dynamics"
- 2:45 - 3:30 **Nima Arkani-Hamed**, Harvard University
"Split Supersymmetry"
- 3:30 - 4:00 COFFEE BREAK
- 4:00 - 4:45 **Michael Douglas**, Rutgers University
"Developments in Vacuum Statistics"
- 4:45 - 5:30 **Fabio Zwirner**, University of Rome La Sapienza and INFN
"N=1 Superpotentials and N=4 Gaugings in Superstring Theories with Fluxes"
- 6:30 p.m. SOCIAL HOUR & WORKSHOP DINNER

Saturday, October 16, 2004 (Stephen Gasiorowicz Seminar Room 435)

Session Chair: M. Peloso

- 9:00 - 9:45 a.m. **Gregory Gabadadze**, New York University
"Massive and Metastable Gravitons"
- 9:45 - 10:30 **Nemanja Kaloper**, University of California-Davis
"Exorcising $w < -1$ "
- 10:30 - 11:00 COFFEE BREAK

- 11:00 - 11:45 a.m. **Robert Myers**, Perimeter Institute
"Musings on String Cosmology"
- 11:45 - 12:30 **Georgi Dvali**, New York University
"Attractors"
- 12:30 - 2:00 p.m. LUNCH
- Session Chair: M. Shifman**
- 2:00 - 2:45 p.m. **Markus Luty**, University of Maryland
"Infrared Modification of Gravity from Spontaneous Symmetry Breaking"
- 2:45 - 3:30 **David E. Kaplan**, Johns Hopkins University
"Supersymmetry Stuff"
- 3:30 - 4:00 COFFEE BREAK
- 4:00 - 4:45 **Matt Strassler**, University of Washington-Seattle
"The Lonely Top and the Foggy Frontier"
- 4:45 - 5:30 **Erich Poppitz**, University of Toronto
"Lattice Supersymmetry, Superfields and Renormalization"

Sunday, October 17, 2004 (Stephen Gasiorowicz Seminar Room 435)

Session Chair: T. Gherghetta

- 9:00 - 9:45 a.m. **Michael Dine**, University of California-Santa Cruz
"Supersymmetry and the Landscape"
- 9:45 - 10:30 **Gary Shiu**, University of Wisconsin
"Building MSSM Flux Vacua"
- 10:30 - 11:00 COFFEE BREAK
- 11:00 - 11:45 **Yuri Shirman**, Los Alamos National Laboratory
"Chiral Gauge Theories and Deconstruction of AdS"
- 11:45 - 12:30 **Gilad Perez**, Lawrence Berkeley National Laboratory
"Flavor Physics in RSI and Summer Experimental Results"
- 12:30 p.m. END OF WORKSHOP