

New Physics and the LHC

Report of Contributions

Contribution ID: 2

Type: **not specified**

Physics with Cold Atoms

Wednesday, 15 August 2007 14:00 (1 hour)

Weekly TH Colloquium.

Abstract: Atomic physics has made rapid progress recently, yielding many high precision techniques and experiments. Atom interferometry in particular has become a sensitive tool, used successfully for a variety of applications including clocks, gyroscopes, and accelerometers. In light of this, it is interesting to consider the possibilities for using atom interferometry to study fundamental physics. It could be applied to study gravity and astrophysics by observing low frequency gravitational waves, or by allowing laboratory tests of general relativity. Further, atom interferometry can make significant improvements to searches for new short-distance forces and tests of atom neutrality. It could even potentially provide novel tests of quantum mechanics.

Presenter: Dr GRAHAM, Peter (Stanford University)

Contribution ID: 4

Type: **not specified**

The M -MSSM at the LHC

Tuesday, 14 August 2007 12:00 (30 minutes)

Presenter: Prof. ACHARYA, Bobby (ICTP Trieste)

Contribution ID: 5

Type: **not specified**

Light scalar at LHC: the Higgs or the dilaton?

Monday, 13 August 2007 14:00 (30 minutes)

Presenter: Prof. SKIBA, Witold (Yale University)

Contribution ID: 6

Type: **not specified**

Natural Scalar Dark Matter from an Unnatural Higgs

Tuesday, 14 August 2007 11:30 (30 minutes)

Presenter: Prof. PIERCE, Aaron (Michigan University)

Contribution ID: 7

Type: **not specified**

Lattice Chirality and the Decoupling of Mirror Fermions

Monday, 13 August 2007 14:30 (30 minutes)

Presenter: Prof. POPPITZ, Erich (University of Toronto)

Contribution ID: 8

Type: **not specified**

A GIM Mechanism from Extra Dimensions

Thursday, 16 August 2007 14:30 (30 minutes)

Blackboard talk. No slide available.

Presenter: Prof. CSAKI, Csaba (Cornell University)

Contribution ID: 9

Type: **not specified**

Relating LHC Signatures and Underlying (String) Theories Directly

Monday, 20 August 2007 14:00 (30 minutes)

Presenter: Prof. KANE, Gordon (Michigan University)

Contribution ID: **10**

Type: **not specified**

Gauge-Higgs Unification

Monday, 20 August 2007 14:30 (30 minutes)

Presenter: Prof. HOSOTANI, Yutaka (Osaka University)

Contribution ID: **11**

Type: **not specified**

Minimal Completions of Gauge Mediation

Tuesday, 21 August 2007 14:00 (1 hour)

Weekly TH Seminar

Presenter: Dr SHIH, David (Harvard University)

Contribution ID: 12

Type: **not specified**

On the Ubiquity of Meta-Stable Vacua

Wednesday, 22 August 2007 14:00 (1 hour)

Weekly TH Colloquium

Presenter: Prof. OOGURI, Hirosi (Caltech University)

Contribution ID: 13

Type: **not specified**

ATLAS status and plans for physics with first data

Thursday, 23 August 2007 14:00 (45 minutes)

Presenter: Dr GIANOTTI, Fabiola (CERN)

Contribution ID: 14

Type: **not specified**

CMS status and plans for physics with first data

Thursday, 23 August 2007 14:45 (45 minutes)

Presenter: Prof. DASU, Sridhara (University of Wisconsin)

Contribution ID: 15

Type: **not specified**

TeV-scale Gravity in Horava-Witten Theory on a Compact Complex Hyperbolic Threefold

Tuesday, 28 August 2007 11:30 (30 minutes)

Presenter: Mr AUSTIN, Chris

Contribution ID: 17

Type: **not specified**

Black Holes and Quantum Gravity at the LHC

Wednesday, 29 August 2007 14:00 (1 hour)

Weekly TH Colloquium

Presenter: Prof. RANDALL, Lisa (Harvard University)

Contribution ID: **18**

Type: **not specified**

Mass Determination in SUSY-like Events with Missing Energy

Friday, 31 August 2007 11:30 (30 minutes)

Presenter: Prof. CHENG, Hsin-Chia (UC Davis)

Contribution ID: 19

Type: **not specified**

Four Generations and Higgs Physics

Thursday, 16 August 2007 14:00 (30 minutes)

Presenter: Prof. KRIBS, Graham (University of Oregon)

Contribution ID: 20

Type: **not specified**

String Signatures for the LHC

Friday, 31 August 2007 12:00 (30 minutes)

Presenter: Prof. NILLES, Hans-Peter (Bonn University)

Contribution ID: 21

Type: **not specified**

Some aspects of supersymmetry breaking metastable vacua

Tuesday, 4 September 2007 12:00 (30 minutes)

Presenter: Dr DUDAS, Emilian (Ecole Polytechnique)

Contribution ID: 22

Type: **not specified**

Moduli stabilization, pattern of sparticle spectra and the gluino stransverse mass at LHC

Tuesday, 4 September 2007 11:30 (30 minutes)

Presenter: Prof. CHOI, Kiwoon (KAIST, Daejeon)

Contribution ID: 23

Type: **not specified**

Peeking Into a Hidden Valley: A First Look at Exotic Phenomenology

Wednesday, 5 September 2007 14:00 (1 hour)

Weekly TH Colloquium

Presenter: Prof. STRASSLER, Matthew (Rutgers University)

Contribution ID: 26

Type: **not specified**

The LHC: More Symmetries or More Universes?

Monday, 3 September 2007 14:00 (30 minutes)

Presenter: Prof. HALL, Lawrence (UC Berkeley)

Contribution ID: 27

Type: **not specified**

Signatures of gravitational fixed points at the LHC

Tuesday, 28 August 2007 12:00 (30 minutes)

Presenter: LITIM, Daniel (Unknown)

Contribution ID: 28

Type: **not specified**

Signs of analyticity in effective theories

Monday, 3 September 2007 14:30 (30 minutes)

Presenter: Dr JENKINS, Alejandro (MIT)

Contribution ID: 29

Type: **not specified**

An informal discussion on SO(5)/SO(4) and the EWPT

Monday, 27 August 2007 14:00 (30 minutes)

Presenter: BARBIERI, Riccardo (Scuola Normale Superiore, Pisa)

Contribution ID: **30**

Type: **not specified**

Black holes and many species solution to the hierarchy problem (at LHC)

Monday, 27 August 2007 14:30 (30 minutes)

Presenter: DVALI, Gia (CERN-TH and New-York University)

Contribution ID: 31

Type: **not specified**

Gluginos at the Tevatron

Friday, 24 August 2007 14:00 (30 minutes)

Presenter: Prof. WACKER, Jay (SLAC)

Contribution ID: 32

Type: **not specified**

Modifying missing energy signatures

Friday, 24 August 2007 14:30 (30 minutes)

Presenter: Prof. WEINER, Neal (New-York University)