

PROGRAM OF PARALLEL SESSIONS
DESY Theory Workshop, September 27 – 30, 2011
“Cosmology Meets Particle Physics - Ideas & Measurements”
Wednesday, September 28, 2011

Session 1A: Particle Phenomenology

Bldg. 5, Main Auditorium – Chair: M. Krämer

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| 14:00–14:20 | I.1 Fitting Mixed Modulus-Anomaly Mediated SUSY Breaking and distinguishing from the CMSSM at the LHC
<i>Tattersall, Jamie (Bonn)</i> |
| 14:20–14:40 | I.2 Light NMSSM Higgs bosons in SUSY cascades
<i>Stål, Oscar (DESY)</i> |
| 14:40–15:00 | I.3 Three-loop anomalous dimensions for squarks in SUSY QCD
<i>Hermann, Thomas (Karlsruhe)</i> |
| 15:00–15:20 | I.4 Heavy flavor 3-loop corrections to Deep Inelastic Scattering
<i>Wißbrock, Fabian (DESY Zeuthen)</i> |
| 15:20–15:40 | COFFEE BREAK (Foyer buildg. 1) |

Session 1B: Particle Phenomenology

Bldg. 5, Main Auditorium - Chair: T. Mannel

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| 15:40–16:00 | I.5 The fine-tuning and phenomenology of the generalised NMSSM
<i>Schmidt-Hoberg (Oxford)</i> |
| 16:00–16:20 | I.6 Precise Prediction for the W boson mass in models beyond the SM
<i>Zeune, Lisa (DESY)</i> |
| 16:20–16:40 | I.7 Form Factors and Strong Couplings of Heavy Baryons from QCD Light-Cone Sum Rules
<i>Wang, Yuming (Siegen)</i> |
| 16:40–17:00 | I.8 Gravitino LSP and long-lived staus at the LHC
<i>Heisig, Jan (Hamburg)</i> |
| 17:00–17:20 | I.9 Effect of SUSY-QCD corrections on the dark matter relic density
<i>Harz, Julia (DESY)</i> |

Session 2A: Cosmology & Astroparticle Physics
- Dark Matter -

Bldg. 2a, Room: Sem. 2 – Chair: L. Covi

- 14:00–14:20 **II.1 Quartic coupling in Inert Double Model & DM data**
Sokolowska, Dorota (Warsaw)
- 14:20–14:40 **II.2 Pressure from DM annihilation and the rotation curve of spiral galaxies**
Wechakama, Maneenate (Potsdam)
- 14:40–15:00 **II.3 Implications of CoGeNT's New Results for DM**
Kelso, Chris (Chicago)
- 15:00–15:20 **II.4 Bayesian analysis of current DD experiments**
Arina, Chiara (RWTH Aachen)
- 15:20–15:40 **COFFEE BREAK (Foyer buildg. 1)**

Session 2B: Cosmology & Astroparticle Physics
- Early Universe -

Bldg. 2a Room: Sem. 2 – Chair: L. Covi

- 15:40–16:00 **II.5 Thermal decoupling in DM models with Sommerfeld-enhanced annihilation rates**
Van den Aarssen, Laura (Hamburg)
- 16:00–16:20 **II.6 Reheating, Matter, Dark Matter - All you need is Neutrino Decays**
Schmitz, Kai (DESY)
- 16:20–16:40 **II.7 SO(10)-inspired Leptogenesis**
Marzola, Luca (Southampton)
- 16:40–17:00 **II.8 The primordial Lithium problem: Can We Avoid New Physics?**
Chakraborty, Nachiketa (Urbana)

Session 3A: Cosmology & Astroparticle Physics - Inflation
Bldg. 1, Room: Sem. 1 – Chair: D. Schwarz

- 14:00–14:20 **III.1 Towards Matter Inflation in Effective Heterotic SUGRA**
Halter, Sebastian (MPI Munich)
- 14:20–14:40 **III.2 Inflation and gravitino DM embedded in GMSB**
Kamada, Kohei (DESY)
- 14:40–15:00 **III.3 Inflation and non-minimal scalar-curvature coupling in gravity and supergravity**
Ketov, Sergei (Tokyo)
- 15:00–15:20 **III.4 The overshoot problem in inflation after tunneling**
Vaudrevange, Pascal (DESY)
- 15:20–15:40 **COFFEE BREAK (Foyer buildg. 1)**

Session 3B: Cosmology & Astroparticle Physics - Inflation
Bldg. 1, Room: Sem. 1 - Chair: D. Schwarz

- 15:40–16:00 **III.5 Cosmological decoherence in the framework of stochastic inflation**
Weenink, Jan (Utrecht)
- 16:00–16:20 **III.6 Goldstone bosons in Higgs inflation**
Mooij, Sander (NIKHEF)
- 16:20–16:40 **III.7 UV-protected (Natural) Inflation: Primordial Fluctuations and Non-Gaussian Features**
Watanabe, Yuki (LMU Munich)
- 16:40–17:00 **III.8 Non-Gaussianities in single field models without slow-roll**
Noller, Johannes (IC London)
- 17:00–17:20 **III.9 A Conformal Bi-metric Model for the Inflationary Phase**
Palumbo, Giandomenico (Pavia)