

PROGRAM OF PARALLEL SESSIONS
DESY Theory Workshop, September 29 – October 2, 2009
“Collider Phenomenology”

Stand: 23. September 2009

Session A1: QCD and loop integration techniques 1
Bldg. 1b Room: Sem. 3 — Chair: M. Diehl

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|-------------|---|
| 14:00–14:20 | I.1 J/psi photoproduction at HERA at NLO including color octet states
<i>M. Butenschön</i> |
| 14:25–14:45 | I.2 Exact analytical t-tbar total cross-section at LC
<i>O. Veretin</i> |
| 14:50–15:10 | I.3 Higgs production in gluon fusion: finite top mass effects at next-to-next-to leading order
<i>K. Ozeren</i> |
| 15:15–15:35 | I.4 AutoDipole: an automated dipole subtraction
<i>K. Hasegawa</i> |
| 15:40–16:00 | I.5 Alternative subtraction scheme using Nagy Soper dipoles
<i>T. Robens</i> |
| 16:05–16:30 | COFFEE BREAK |

Session A2: QCD and loop integration techniques 2
Bldg. 1b Room: Sem. 3 — Chair: M. Diehl

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| 16:30–16:50 | I.6 A recursive reduction of Tensor Feynman integrals
<i>T. Diakonidis</i> |
| 16:55–17:15 | I.7 Particle Production from Coherent Oscillation
<i>H. Nagao</i> |
| 17:20–17:40 | I.8 TOTEM measurements and Phenomenology
<i>F. Aleem</i> |
| 17:45 | ADJOURN |

Session B1: Standard Model and SUSY 1
Bldg. 1b Room: Sem. 4a — Chair: A. Ali

- 14:00–14:20 **II.1 Electroweak Fits of the SM and beyond SM theories using Gfitter**
M. Göbel
- 14:25–14:45 **II.2 Higgs Pair Production at the LHC**
M. Billoni
- 14:50–15:10 **II.3 Phenomenology of SUSY gauge-Higgs unification**
S. Fichet
- 15:15–15:35 **II.4 Electroweak contributions to squark-squark production at the LHC**
J. Germer
- 15:40–16:00 **II.5 Rapidity Gap Events in Squark Pair Production at the LHC**
J.S. Kim
- 16:05–16:30 **COFFEE BREAK**

Session B2: SUSY 2
Bldg. 1b Room: Sem. 4a — Chair: A. Ali

- 16:30–16:50 **II.6 Restrictions on SUSY Breaking from Flavor Symmetries**
J. Kersten
- 16:55–17:15 **II.7 Measuring Stop Mixing Angle at the LHC**
K. Rolbiecki
- 17:20–17:40 **II.8 Probing CP Violation in the MSSM with and without momentum reconstruction at the LHC**
J. Tattersall
- 17:45–18:05 **II.9 Soft gluon resummation for squark and gluino hadroproduction**
A. Kulesza
- 18:05 **ADJOURN**

Session C1: Beyond the Standard Model 1
Bldg. 1b Room: Sem. 4b — Chair: W. Buchmüller

- 14:00–14:20 **III.1 Determination of Higgs couplings at the LHC**
M. Rauch
- 14:25–14:45 **III.2 Pseudoscalar Higgs Decays into W and Z Bosons**
W. Wiebusch
- 14:50–15:10 **III.3 Models of Yukawa interaction in the two Higgs doublet model**
K. Tsumura
- 15:15–15:35 **III.4 A light composite Higgs at the LHC**
M. Jarvinen
- 15:40–16:00 **III.5 Walking Technicolor at the LHC**
R. Foadi
- 16:05–16:30 **COFFEE BREAK**

Session C2: Beyond the Standard Model 2
Bldg. 1b Room: Sem. 4b — Chair: W. Buchmüller

- 16:30–16:50 **III.6 Flavor constraints on the two-Higgs-doublet model with general Yukawa couplings**
O. Stal
- 16:55–17:15 **III.7 Collider phenomenology of split-UED**
M. Takeuchi
- 17:20–17:40 **III.8 U(1) family dependent models at the TeV scale**
L. Velasco-Sevilla
- 17:45–18:05 **III.9 Electric Dipole Moments in U(1) Models**
A. Sabanci
- 18:10 **ADJOURN**

Session D1: Astroparticle Physics 1

Bldg. 1 Room: Sem. 1 — Chair: A. Ringwald

- 14:00–14:20 **IV.1 Probing the Reheating Temperature at Colliders and with Primordial Nucleosynthesis**
F. Steffen
- 14:25–14:45 **IV.2 Towards analyzing leptogenesis in the Kadanoff-Baym formalism**
A. Kartavtsev
- 14:50–15:10 **IV.3 CMB Constraints on Minicharged Particles**
C. Burrage
- 15:15–15:35 **IV.4 Some Cosmological Constraints in Axino Dark Matter Scenarios**
N. Tajuddin
- 15:40–16:00 **IV.5 Neutrino Signals from Unstable Dark Matter**
M. Greife
- 16:05–16:30 **COFFEE BREAK**

Session D2: Astroparticle Physics 2

Bldg. 1 Room: Sem. 1 — Chair: A. Ringwald

- 16:30–16:50 **IV.6 Probing Gravitino Dark Matter with PAMELA and Fermi**
F. Takayama
- 16:55–17:15 **IV.7 Gravitino Dark Matter and general neutralino NLSP**
J. Hasenkamp
- 17:20–17:40 **IV.8 Gamma-ray anisotropies from decaying dark matter**
C. Weniger
- 17:45 **ADJOURN**