

PROGRAM OF PARALLEL SESSIONS
DESY Theory Workshop, September 21 – 24, 2010
“Quantum Field Theory: Developments and Perspectives”
Wednesday, September 22, 2010

Session 1A: Quantum Gravity

Bldg. 1b Room: Sem. 4a – Chair: Fredenhagen

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|-------------|---|
| 14:30–14:50 | I.1 Quantum Field Theory on Noncommutative Curved Spacetimes
<i>A. Schenkel</i> |
| 14:50–15:10 | I.2 Dark Energy from Quantum Matter
<i>T.-P. Hack</i> |
| 15:10–15:30 | I.3 Arithmetic Quantum Gravity
<i>M. Köhn</i> |
| 15:30–16:00 | COFFEE BREAK |

Session 1B: Quantum Field Theory

Bldg. 1b Room: Sem. 4a – Chair: Lechtenfeld

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| 16:00–16:20 | I.4 A Novel Algebraic Approach to Quantum and Classical Dualities
<i>E. Cobanera</i> |
| 16:20–16:40 | I.5 Deterministic Quantum Field Theory in Compact Space-Time
<i>D. Dolce</i> |
| 16:40–17:00 | I.6 Structure of the Broken Phase of the Sine-Gordon Model
<i>V. Pangon</i> |
| 17:00 | ADJOURN |

Session 2A: AdS/CFT

Bldg. 2a Room: Sem. 2 – Chair: Boels

- 14:30–14:50 **II.1 Wrapped Branes, Consistent Truncations and AdS/CMT**
O. Varela
- 14:50–15:10 **II.2 Four-dimensional Conformal Supergravity from $N = 4$ Gauged Supergravity on Asymptotically AdS_5**
C. Uhlemann
- 15:10–15:30 **II.3 Extremal Three-point Correlators in Kerr/CFT**
W. Schulgin
- 15:30–16:00 **COFFEE BREAK**

Session 2B: Amplitudes & Strings

Bldg. 2A Room: Sem. 2 – Chair: Plefka

- 16:00–16:20 **II.4 Semiclassical Strings Exactly**
V. Forini
- 16:20–16:40 **II.5 Space-like String Surfaces in $AdS_3 \times S^3$ of Vacuum Type**
S. Wuttke
- 16:40–17:00 **II.6 On BCFW Shifts of Integrands and Integrals**
R. Boels
- 17:00 **ADJOURN**

Session 3A: Phenomenology

Bldg. 1b Room: Sem. 4b – Chair: Weiglein

- 14:30–14:50 **III.1 Hidden $b\bar{b}$ Tetraquark Spectroscopy and Evidence in Belle Data Near the $\Upsilon(5S)$ Resonance**
C. Hambrock
- 14:50–15:10 **III.2 B_s Mixing and Non-minimal Flavour Violating Supersymmetry**
J-H. Park
- 15:10–15:30 **III.3 R-Parity Violating Decays of NLSPs at the LHC**
S. Bobrovskiy
- 15:30–16:00 **COFFEE BREAK**

Session 3B: Lattice & QCD

Bldg. 1b Room: Sem. 4b - Chair: Sommer

- 16:00–16:20 **III.4 J/Ψ Production with NRQCD: HERA, Tevatron, RHIC and LHC**
M. Butenschön
- 16:20–16:40 **III.5 Closed Flux Tubes and their String Description: a Lesson by Lattice Gauge Theories**
A. Athenodorou
- 16:40–17:00 **III.6 Properties of the QCD Vacuum Induced by Strong Magnetic Field (a Lattice Study)**
T. Kalaydzhyan
- 17:00 **ADJOURN**