

16th Meeting of SFB/TR9

Computational Particle Physics

14th until 16th November 2011

in Aachen

Monday, 14 th November 2011	
9:00 – 10:30	Prof. Dr. Fred Jegerlehner (HU Berlin/DESY Zeuthen): <i>Essentials of the Muon $g-2$</i>
10:30 – 11:00	Coffee Break
11:00 – 11:25	C1: Paramita Dey (RWTH Aachen): <i>Anomalous magnetic moment of the muon in Randall-Sundrum models</i>
11:30 – 11:55	C1: Andreas Athenodorou (DESY Zeuthen): <i>One-loop lattice artifacts of a dynamical charm quark</i>
12:00 – 12:25	B3: Johannes Bluemlein (DESY Zeuthen): <i>Generalized and Cyclotomic Harmonic Sums and Polylogarithms</i>
12:30 – 12:45	B3: Simon Dinter (DESY Zeuthen): <i>Moments of Generalized Parton Distributions from Lattice QCD</i>
12:50 – 14:00	Lunch Break
14:00 – 14:55	Johann Kuehn (KIT): <i>Focus project A1 "Multi-loop calculations and computer-algebraic techniques in quantum field theory" – Physics and Methods</i>
15:00 – 15:20	A1: Joerg Rittinger (KIT): <i>Top Decoupling in Z-Decays</i>
15:25 – 15:55	Coffee Break
15:55 – 16:15	A1: Tobias Kasprzik (KIT): <i>W-Pair Production at the LHC</i>
16:20 – 16:45	Bernd Jantzen (RWTH Aachen): <i>Foundation and generalization of the expansion by regions</i>
17:00 – 19:00	Projektleiterbesprechung

Tuesday, 15th November 2011

9:00 – 9:55	Martin Beneke (RWTH Aachen): <i>Focus project C3 "Threshold production of top quarks and other heavy particles" – Physics and Methods</i>
10:00 – 10:15	C3: Matthias Steinhauser (KIT): <i>Heavy quark and gluino potentials to two loops</i>
10:20 – 10:40	A1: Peter Marquard (KIT): <i>Gluino Pair Production at Threshold</i>
10:45 – 11:15	Coffee Break
11:15 – 11:40	B1: Valery Yundin (DESY Zeuthen): <i>Massive Loop Corrections for Collider Physics</i>
11:45 – 12:05	B1: Peter Baernreuther (RWTH Aachen): <i>Top Quark Pair Production meets NNLO</i>
12:10 – 12:35	C4: Philipp Kant (HU Berlin): <i>Hadronic Single-Top-Quark Production: First Building Blocks at NNLO</i>
12:40 - 14:00	Lunch Break
14:00 – 15:30	Dr. Christophe Grojean (CERN): <i>Electroweak symmetry breaking with and without a Higgs</i>
15:30 – 16:00	Coffee Break
16:00 – 16:25	A5: Giuseppe Bevilacqua (RWTH Aachen): <i>The Nagy-Soper NLO subtraction method in QCD</i>
16:30 – 16:45	C5: Maik Hoeschele (KIT): <i>Simultaneous decoupling of bottom and charm quarks</i>
16:50 – 17:05	C5: Thomas Hermann (KIT): <i>Three-loop anomalous dimensions for squarks in supersymmetric QCD</i>
17:10 – 17:30	C5: Mikhail Rogal (KIT): <i>Production of scalar and pseudo-scalar Higgs bosons to next-to-next-to-leading order at hadron colliders</i>
17:35 – 19:00	Internal project discussions
ab 19:00 Uhr	Gemeinsames Abendessen

Wednesday, 16th November 2011

8:30 – 9:25	Karl Jansen (DESY Zeuthen): <i>Focus project A4 "Chirally invariant and twisted-mass formulations of QCD on the lattice" – Physics and Methods</i>
9:30 – 9:55	B2: Marina Marinkovic (HU Berlin): <i>Strange quark mass and Lambda parameter by the ALPHA collaboration</i>
10:00 – 10:20	B5: Margarete Muehlleitner (KIT): <i>SUSY-QCD Corrections to Higgs Production via Gluon Gluon Fusion</i>
10:25 – 10:55	Coffee Break
10:55 – 11:15	B5: Sophy Palmer (KIT): <i>EW and MSSM corrections to Higgs production in VBF</i>
11:20 – 11:40	B5: Anna Kulesza (RWTH Aachen): <i>Resummation in SUSY particle production</i>
11:45 – 12:05	B5: Karol Kovarik (KIT): <i>Direct photon production in association with a heavy quark and its impact on PDFs</i>
12:10 – 12:35	B4: Maria Ubiali (RWTH Aachen): <i>Are bottom PDFs needed for the LHC phenomenology?</i>
ab 12:40	Mittagessen und Abreise