

15th Meeting of SFB/TR9

Computational Particle Physics

16th until 18th May 2011

in Zeuthen

Monday, 16th May 2011

9:00 – 10:30	Prof. Dr. Thomas Becher (Universität Bern): <i>Resummation of high-energy processes with effective field theory</i>
10:30 – 11:00	Coffee Break
11:00 – 11:25	B1: Sven-Olaf Moch (Zeuthen): <i>Non-perturbative parameters in Higgs cross sections at the LHC</i>
11:30 – 11:50	A1: Jorge Mondejar (KIT): <i>A fresh look on α_s from τ decays</i>
11:55 – 12:15	A1: Konstantin Chetyrkin (KIT): <i>Singlet contributions to the vector current correlator in momentum and positions spaces and perspectives of precise determination of α_s from lattice simulations</i>
12:20 – 12:40	A1: Max Zoller (KIT): <i>OPE of the energy-momentum tensor correlator in higher orders</i>
12:45 – 14:00	Lunch Break
14:00 – 14:55	Luminita Mihaila (KIT): <i>Focus project C5 "Multi-loop calculations with heavy fermions in the SM and MSSM" – Physics and Methods</i>
15:00 – 15:25	C5: Nikolai Zerf (KIT): <i>Higgs boson production in gluon fusion to NNLO in the MSSM</i>
15:30 – 16:00	Coffee Break
16:00 – 16:25	C5: Jens Hoff (KIT): <i>Moments of heavy-light current correlators up to three loops</i>
16:30 – 16:55	C3: Charlotte Hellmann (Aachen): <i>Effective theory calculation of dark matter annihilation in the MSSM</i>
17:00 – 18:30	Projektleiterbesprechung
ab 19:00	Gemeinsames Abendessen der Projektleiter

Tuesday, 17th May 2011

9:00 – 9:55	Ulrich Wolff (HU Berlin): <i>Focus project B2 "Lattice computation of input parameters of perturbative QCD" – Physics and Methods</i>
10:00 – 10:20	Felix Karbstein (FSU Jena): $\Lambda_{\overline{MS}}$ from static potential for $N_f = 2$
10:25 – 10:55	Coffee Break
10:55 – 11:15	A4: Marcus Petschlies (HU Berlin): <i>Moments of 2-point functions</i>
11:20 – 11:45	B3: Vincent Drach (Zeuthen): <i>Recent results on moments of PDFs from the lattice</i>
11:50 – 12:15	C1: John Bulava (Zeuthen): <i>Computing hadronic matrix elements on the lattice</i>
12:20 – 12:45	C1: Johannes Rohrer (Aachen): <i>Power-suppressed scalar penguin contributions to non-leptonic decays and their CP asymmetries</i>
12:40 - 14:00	Lunch Break
14:00 – 15:30	Prof. Dr. Dominik Stoeckinger (TU Dresden): <i>Renormalization of the MSSM: formal and practical aspects</i>
15:30 – 16:00	Coffee Break
16:00 – 16:20	B5: Michael Krämer (Aachen): <i>What if the LHC does not find supersymmetry in the $\sqrt{s} = 7$ TeV run</i>
16:25 – 16:45	B5: Eva Popena (KIT): <i>Light Stop Decay in the MSSM with Minimal Flavour Violation</i>
17:00 – 18:45	Internal project discussions
ab 19:00 Uhr	Gemeinsames Abendessen in Königs Wusterhausen

Wednesday, 18th May 2011

8:30 – 9:25	Michael Krämer (Aachen): <i>Focus project A5 "Automated NLO/NLL Monte Carlo Programs for the LHC" – Physics and Methods</i>
9:30 – 9:50	B1: Gabor Somogyi (Zeuthen): <i>Angular integrals in D dimensions</i>
9:55 – 10:15	B5: Michael Rauch (KIT): <i>VBFNLO</i>
10:20 – 10:50	Coffee Break
10:50 – 11:10	B5: Francisco Campanario (KIT): <i>W $\gamma\gamma$ Jet at NLO QCD</i>
11:15 – 11:35	C4: Oliver Dekkers (Aachen): <i>The real radiation antenna function for $S \rightarrow Q\bar{Q}q\bar{q}$ at NNLO QCD</i>
11:40 – 12:00	C4: Philipp Kant (Berlin): <i>Hadronic single-top-quark production: steps towards NNLO</i>
ab 12:05	Mittagessen und Abreise