

19th Meeting of SFB/TR9

Computational Particle Physics

from 18th until 20th March 2013

in Aachen

Monday, 18 th March 2013	
9:00 – 10:00	B5: Dieter Zeppenfeld (KIT): <i>NLO QCD Corrections for the LHC and Higgs physics</i>
10:00 – 10:30	B5: Michael Rauch (KIT): <i>Higgs Couplings at the LHC and beyond</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	B5: Julien Baglio (KIT): <i>Gauge bosons pair production at the LHC with associated uncertainties</i>
11:30 – 12:00	51: Lisa Edelhaeuser (RWTH, Aachen): <i>Constraints on models with universal extra dimensions from dilepton searches at the LHC</i>
12:00 – 12:30	B4: Bernd Jantzen (RWTH, Aachen): <i>Cancellation of finite-width divergences in threshold top-pair production at linear colliders</i>
12:30 – 14:00	Lunch Break
14:00 – 14:30	B1: Paul Fiedler (RWTH, Aachen): <i>Hadronic Top Quark Pair Production at NNLO</i>
14:30 – 15:00	B1 : Matthew Dowling (DESY, Zeuthen): <i>High Order Corrections to Heavy to Light Decays</i>
15:00 – 15:30	B1: Gavin Cullen (DESY, Zeuthen): <i>Automated One Loop Calculations with GoSam</i>
15:30 – 16:00	Coffee Break
16:00 – 17:00	invited talk: Stefan Schael (RWTH, Aachen): <i>The ASM Experiment on the International Space Station</i>
17:15 – 18:00	Meeting of the Project Leaders
from 19:00	Workshop Dinner at the Restaurant "Pontgarden"

Tuesday, 19th March 2013

9:00 – 9:30	A4: Andreas Nube (HU, Berlin): <i>First results for pseudoscalar decay constants of D-mesons from $N_f = 2 + 1 + 1$ twisted mass lattice QCD</i>
9:30 – 10:00	A4: Elena Garcia Ramos (DESY, Zeuthen): <i>The low lying spectrum of the Dirac operator: chiral condensate and topological susceptibility</i>
10:00 – 10:30	B2: Alberto Ramos (DESY, Zeuthen): α_{GF} : <i>A new non-perturbative definition of the strong coupling</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	A1: Konstantin Chetyrkin (KIT): <i>DIS sum rules: an update</i>
11:30 – 12:00	A1: Max Zoller (KIT): <i>OPE of the pseudoscalar gluon correlator to three loops</i>
12:00 – 12:30	A5: Giuseppe Bevilacqua (RWTH, Aachen): <i>NLO corrections to $pp \rightarrow b\bar{b}b\bar{b} + X$ with HELAC</i>
12:30 – 14:0	Lunch Break
14:00 – 14:30	B3: Abilio De Freitas (DESY, Zeuthen): <i>New results on massive 3-loop Wilson coefficients in DIS</i>
14:30 – 15:00	C1: Yuming Wang (RWTH, Aachen/ TU Muenchen): <i>Exclusive $B \rightarrow K^*ll$ decays at large recoil</i>
15:00 – 15:30	C1: Juergen Rohrwild (TU, Muenchen): <i>Leptonic Penguins and Flavour violation in the Randall-Sundrum Model</i>
15:30 – 16:00	Coffee Break
16:00 – 16:30	C1: Fabio Bernardoni (DESY, Zeuthen): <i>$B \rightarrow \pi$ in HQET</i>
16:30 – 17:00	C1: Piotr Korcyl (DESY, Zeuthen): <i>Towards fixing the parameters of Lattice HQET up to $1/m$</i>
17:00 – 18:00	internal project discussions

Wednesday, 20th March 2013

Wednesday, 20th March 2013	
9:00 – 9:30	C5: Peter Marquard (KIT): <i>4-Loop on-shell integrals and applications</i>
9:30 – 10:00	C5: Jens Hoff (KIT): <i>First steps to hadronic Higgs production at N^3 LO</i>
10:00 – 10:30	C5: Alexander Kurz (KIT): <i>SUSY Higgs production and low-energy theorems at NNLO</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	C4: Peter Galler (HU, Berlin): <i>Effects of a heavy (pseudo-) scalar on top-quark pair production: steps towards next-to-leading order QCD</i>
11:30 – 12:00	C4: Mohammad Assadsolimani (HU, Berlin): <i>QCD corrections to single top-quark production at NNLO accuracy: two loop contributions</i>
12:00	End of the Meeting