

18th Meeting of SFB/TR9

Computational Particle Physics

1st and 2nd October 2012

in Berlin

Monday, 1st October 2012

9:00 – 10:30	invited lecture: Karl Jakobs (Freiburg University) <i>Physics at the LHC</i>
10:30 – 11:00	Coffee Break
11:00 – 11:25	B1: Andrea Almasy (DESY, Zeuthen): <i>Generalized double-logarithmic large-x resummation in inclusive DIS and SIA</i>
11:25 – 11:50	B1: Torsten Pfoh (DESY, Zeuthen): <i>QCD threshold corrections for gluino pair production at hadron colliders</i>
11:50 – 12:10	B5: Ramona Gröber (KIT / ITP): <i>Single and Double Higgs Production in Composite Higgs Models with Heavy Top Partners</i>
12:10 – 12:30	B5: Francisco Campanario (KIT / ITP): <i>Progress on $WZjj$ production at NLO</i>
12:30 – 13:30	Lunch Break
13:30 – 13:50	B2: Patrick Fritzsch (HU, Berlin): <i>Final results on the strange quark mass and the Lambda parameter at $N_f=2?$</i>
13:50 – 14:20	B3 : Simon Dinter (DESY, Zeuthen): <i>Progress in the calculation of nucleon matrix elements</i>
14:20 – 14:40	B3: Fabian Wissbrock (DESY, Zeuthen): <i>Integrating Feynman Diagrams using Hyperlogarithms</i>
14:40 – 15:00	C3: Jan Piclum (RWTH, Aachen): <i>Inclusive top-quark pair production with TOPIXS</i>
15:00 – 15:30	Coffee Break
15:30 – 15:50	C5: Thomas Hermann (KIT / TTP): <i>$\bar{B} \rightarrow X_s \gamma$ in the 2HDM up to NNLO in QCD</i>
15:50 – 16:10	C5: Jonathan Grigo (KIT / TTP): <i>Moments of heavy quark correlators with two masses exact mass dependence to three loops</i>
16:10 – 16:30	C5: Luca Di Luzio (KIT / TTP): <i>Towards gauge coupling unification in minimal SU (5) at 3-loop accuracy</i>
16:30 – 18:30	Projektleiterbesprechung

Tuesday, 2nd October 2012

9:00 – 10:00	C4: Peter Uwer (HU, Berlin): <i>Focus project C4: Top-quark physics at colliders</i>
10:00 – 10:20	C4: Benedikt Biedermann (HU, Berlin): <i>Multi-jet cross sections in hadronic collisions at NLO accuracy in QCD with NJet</i>
10:20 – 10:40	C4: Bas Tausk (HU, Berlin): <i>Virtual corrections for single top-quark production at NNLO accuracy: First results and current status</i>
10:40– 11:15	Coffee Break
11:15 – 11:35	A1: Anastasya Bierweiler (KIT / TTP): <i>Gauge-Boson Pair Production at the LHC</i>
11:35 – 11:55	A1: Jorge Mondejar (KIT / TTP): <i>Adler Anomaly at the Three Loops</i>
11:55 – 12:15	A1: Konstantin Chetyrkin (KIT / TTP): <i>QCD Vacuum Energy and Higgs Selfcoupling</i>
12:15 – 13:30	Lunch Break
13:30 – 13:50	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>
13:50 – 14:10	A4: Krzysztof Cichy (DESY, Zeuthen): <i>Non-perturbative renormalization in coordinate space</i>
14:10 – 14:30	A5: Michael Kubocz (RWTH, Aachen): <i>NLO QCD corrections to $pp \rightarrow b\bar{b}b\bar{b} + X$ production at the LHC</i>
14:30– 15:00	Coffee Break
15:00 – 16:30	internal project discussions
16:30	Departure