

13. Meeting of SFB/TR9

Computational Particle Physics

22nd until 24th March 2010

Monday, 22 nd March 2010	
9:00 – 10:30	J. Plefka (HU): <i>Anomalous Dimensions, Integrability and N=4 SUSY-Yang-Mills Theory</i>
10:30 – 11:00	Coffee Break
11:00 – 12:00	R. Sommer (DZ): <i>Effective Field Theory: perturbative and non-perturbative matching for heavy-light currents</i>
12:00 – 12:35	A1 K. Chetyrkin (KA): <i>Adler function and DIS sum rules</i>
12:35 – 12:55	A1 S. Uccirati (KA): <i>Hadronic W-pair production in the TeV region</i>
12:55 – 13:15	A1/B4 T. Kasprzik (KA): <i>Z plus jet production at the LHC</i>
13:15 – 14:30	Lunch Break
14:30 – 16:00	Discussion among different projects
16:00 – 16:30	Coffee Break
16:30 – 16:52	A4 C. Urbach (HU): <i>Status of 2+1+1 flavour simulations</i>
16:53 – 17:15	A4 D. Renner (HU): <i>The vacuum polarization function and g-2 on the lattice</i>
17:15 – 17:37	B1 J. Fleischer (DZ): <i>New results for NLO tensor reductions</i>
17:38 – 18:00	B1 P. Bolzoni (DZ): <i>New approach to infrared subtraction techniques for NNLO jet cross section</i>
ab 19 Uhr	gemeinsames Abendessen

Tuesday, 23nd March 2010

9:00 – 9:30	B2 F. Tekin (HU): <i>Energy dependence of the QCD coupling constant with four quark flavours</i>
9:30 – 10:00	B3 D. Alexandrou (DZ): <i>PDF's on the Lattice</i>
10:00 – 10:15	B3 J. Blümlein (DZ): <i>Recent results</i>
10:15 – 10:35	B5 P. Campanario (KA): <i>Progress on hexagon calculations</i>
10:35 – 10:55	B5 M. Rauch (KA): <i>W Z gamma production at NLO QCD</i>
10:55 – 11:30	Coffee Break
11:30 – 11:50	B5 K Hasegawa (HU): <i>Automated generation of dipole subtraction terms</i>
11:50 – 12:10	B5 S. Karg (AC): <i>NLO QCD corrections to graviton production at hadron colliders</i>
12:10 – 14:00	Lunch Break
14:00 – 14:20	B5 S. Brensing (AC): <i>Soft-gluon resummation for squark and gluino hadroproduction</i>
14:20 – 14:45	C1 F. Virota (DZ): <i>MC algorithms: sampling of topological charge sectors and error analysis</i>
14:45 – 15:15	C1 J. Rohrwild (AC): <i>Flavour constraints on an additional fermion generation</i>
15:15 – 15:30	Coffee Break
15:30 – 19:00	Discussions among project leaders

Wednesday, 24th March 2010

9:00 – 9:20	C1 M. Beneke (AC): <i>Tree-dominated non-leptonic B decays at NNLO</i>
9:20 – 9:40	C3 M. Steinhauser (KA): <i>Three-loop static potential</i>
9:40 – 10:05	C3 B. Jantzen (AC): <i>Electroweak contributions to $e^+e^- \rightarrow W^+W^-b\bar{b}$ in the $t\bar{t}$ resonance region</i>
10:05 – 10:35	C4 W. Bernreuther (AC): <i>Distributions and correlations for hadronic top quark pair production and decay</i>
10:35 – 11:00	Coffee Break
11:00 – 11:20	C5 L. Mihaila (KA): <i>Three-loop beta function in the MSSM</i>
11:20 – 11:40	C5 Ch. Reisser (KA): <i>Low-energy theorem at two loops in the MSSM</i>
11:40 – 12:00	C5 M. Rogal (KA): <i>Top quark mass effects in Higgs production at LHC</i>
12:00 – 12:20	C6 L. Hofer (KA): <i>Search for New Physics in Electroweak Penguins via B_s Decays</i>
12:20 – 12:40	C6 U. Nierste (KA): <i>Lepton flavour violation in the MSSM</i>
ab 13 Uhr	Lunch break and end of the meeting