

# 11. Meeting of SFB/TR9

## Computational Particle Physics

6<sup>th</sup> and 7<sup>th</sup> October 2008

## Monday, 6<sup>th</sup> October 2008

8:30 – 9:50	<p>A1</p> <p>Konstantin Chetyrkin (KA): <math>\alpha_s</math> from <math>\tau</math> - decays (17' + 3')</p> <p>Peter Marquard (KA): <i>New techniques and results for tadpoles</i> (17' + 3')</p> <p>J. H. Kühn (KA): <i>Charmed quark mass from pQCD and lattice</i> (17' + 3')</p> <p>S. Uccirati (KA): <i>Hadronic contributions to Bhabha scattering</i> (17' + 3')</p>
9:50 – 10:10	<p>A2</p> <p>M. Tentyukov (KA): <i>Numerical evaluation of Feynman diagrams with FIESTA</i> (17' + 3')</p>
10:10 – 10:35	Coffee Break
10:35 – 11:15	<p>A3 entfällt; Gastvorträge:</p> <p>J. Vermaseren (Amsterdam): <i>Multiple zeta values with TFORM</i> (17' + 3')</p> <p>Jens Vollinga (Amsterdam): <i>Checkpoints for FORM</i> (17' + 3')</p>
11:15 – 12:05	<p>A4</p> <p>Marc Wagner (HU): <i>Static-light meson masses from twisted mass lattice QCD</i> (15' + 2')</p> <p>Jennifer Gonzalez-Lopez (HU): <i>Schroedinger functional with chirally rotated boundary conditions</i> (15' + 2')</p> <p>Jose Rodriguez-Quintero (Paris): <i>Lattice propagators</i> (15' + 2')</p>
12:05 – 12:45	<p>B1</p> <p>Sven Moch (DZ): <i>Heavy-quark pair production at two loops in QCD</i> (17' + 3')</p> <p>Bas Tausk (DZ): <i>On the tensor reduction of one-loop pentagons and hexagons</i> (17' + 3')</p>
12:45 – 14:00	Lunch Break
14:00 – 15:30	Internal project discussions
15:30 – 16:00	Coffee Break
16:00 – 16:35	<p>B2</p> <p>Stefan Schaefer (HU): <i>Towards charm physics from fine lattices</i> (30' + 5')</p>
16:35 – 17:05	<p>B3</p> <p>J. Blümlein (DZ): <i>Higher order contributions to deep inelastic scattering</i> (25' + 5')</p>
17:05 – 18:30	Besprechung der Projektleiter
ab 19:00	gemeinsames Abendessen

## Tuesday, 7<sup>th</sup> October 2008

8:15 – 8:40	<p>B4</p> <p>Stefano Actis (AC): <i>Dominant NNLO corrections to <math>W</math> pair production near threshold (20' + 5')</i></p>
8:40 – 10:10	<p>B5</p> <p>Kouhei Hasegawa (DZ): <i>Automating dipole subtraction (20' + 2')</i></p> <p>Malgorzata Worek (KA): <i>Weak boson scattering: signals and backgrounds (20' + 2')</i></p> <p>Michael Spannowsky (KA): <i>Progress on NLO calculations for multiple vector boson production processes (20' + 2')</i></p> <p>Michael Krämer (AC): <i>Charged Higgs-boson production at the LHC: NLO SUSY-QCD corrections (20' + 2')</i></p>
10:10 – 10:35	Coffee Break
10:35 – 11:45	<p>C1</p> <p>Tobias Huber (AC): <i>Two loop correction to differential semi-leptonic <math>b \rightarrow u</math> decays in the shape-function region (20' + 3')</i></p> <p>Leonardo Vernazza (AC): <i><math>B \rightarrow \chi_c^J K</math> decays revisited (20' + 3')</i></p> <p>Georg v. Hippel (DZ): <i>Generalized eigenvalue problem for lattice HQET (20' + 3')</i></p>
11:45 – 12:10	<p>C3</p> <p>M. Steinhauser (KA): <i>Fermionic corrections to the three-loop static potential (20' + 5')</i></p>
12:10 – 12:35	<p>C4</p> <p>Martin Wiebusch (AC): <i>SUSY EW and QCD corrections to hadronic top quark pair production (20' + 5')</i></p>
12:35 – 13:45	Lunch Break
13:45 – 14:10	<p>C5</p> <p>J. Salomon (KA): <i>Supersymmetric matching corrections for <math>\alpha_s</math> and <math>m_b</math> (20' + 5')</i></p>
14:10 – 15:10	<p>C6</p> <p>Lars Hofer (KA): <i><math>\tan \beta</math> enhanced corrections in the MSSM beyond the decoupling limit (25' + 5')</i></p> <p>Christopher Smith (KA): <i>Supersymmetric minimal flavor violation (25' + 5')</i></p>
15:10	Ende der Veranstaltung