

**8. Meeting of SFB/TR 9  
Computational Particle Physics  
22. / 23. February 2007**

**Thursday, 22<sup>nd</sup> February 2007**

|                   |  |
|-------------------|--|
| 11:00 – 11:30 Uhr | <b>Coffee Break</b>  |
| 11:30 – 12:20 Uhr | <b>A1</b><br>Philipp Maierhöfer (KA): „ <i>Standard and epsilon-finite Master Integrals for the Rho-Parameter</i> “<br>Falk Metzler (KA): „ <i>W-pair production at very high energies in NNLL approximation</i> “ |
| 12:20 – 12:50 Uhr | <b>A2</b><br>Jozef Vermaseren (NIKHEF): „ <i>TFORM, the multithreaded version of FORM</i> “  |
| 12:50 – 14:30 Uhr | <b>Lunch</b>   |
| 14:30 – 15:00 Uhr | <b>A3</b><br>Shinji Takeda (HU): „ <i>Automatic generation of vertex for SF</i> “  |
| 15:00 – 15:45 Uhr | <b>B1</b><br>S. Actis (DZ): „ <i>H ---&gt; <math>\gamma\gamma</math> at two loops</i> “<br>A. Mitov (DZ): „ <i>The singular behavior of massive QCD amplitudes</i> “   |
| 15:45 – 16:15 Uhr | <b>Coffee Break</b>  |
| 16:15 – 17:00 Uhr | <b>B2</b><br>Harvey Meyer (MIT): „ <i>Setting the scale of the running coupling and quark mass in <math>NF=2</math> QCD</i> “  |
| 17:00 – 17:30Uhr  | <b>B3</b><br>Rogal (DZ): „ <i>Charged current deep-inelastic scattering at three loop</i> “<br>Karl Jansen (DESY, Zeuthen): „ <i>Lattice results</i> “   |
| 17:30 – 18:00 Uhr | <b>B4</b><br>Pietro Falgari (AC): „ <i>NLO electroweak corrections to WW pair production near threshold</i> “  |
| 18:00 Uhr         | <b>End of Session</b>  |
| 18:00 – 19:00     | <b>Projektleiterbesprechung</b>  |
| 19:30             | <b>Dinner</b>  |

## Friday, 23<sup>th</sup> February 2007

|                   |   |
|-------------------|---|
| 08:45 – 10:05 Uhr | <p><b>B5</b></p> <p>Alexander Mück (AC): „<i>MSSM Higgs-Boson production in bottom-quark fusion: electroweak radiative corrections</i>“</p> <p>Gunnar Klämke (KA): „<i>hjj production: loops and CP properties</i>“</p> <p>Giuseppe Bozzi (Ka): „<i>NLO QCD corrections to VBF processes</i>“</p> <p>Peter Uwer (KA/CERN): „<i>tt-jet production</i>“</p> |
| 10:05 – 11:00 Uhr | <p><b>C1</b></p> <p>Damiano Guazzini (DZ): „<i>b-quark mass and <math>B_s</math> decay constant from a combination of static quarks and QCD on the lattice</i>“</p> <p>Martin Beneke (AC): „<i>Non-leptonic B decays with NLO spectator scattering</i>“</p>   |
| 11:00 – 11:30 Uhr | <b>Coffee Break</b>   |
| 11:30 – 13:00 Uhr | <b>Internal Project Discussion</b>  |
| 13:00 – 14:00 Uhr | <b>Lunch</b>  |
| 14:00 – 14:20 Uhr | <p><b>C1</b></p> <p>Sascha Turczyk (Siegen): „<i>Inclusive Semi-leptonic Decays to order <math>1/m_b^4</math></i>“</p>  |
| 14:20 – 14:50 Uhr | <p><b>C3</b></p> <p>Yuichiro Kiyo (KA): „<i>Quarkonium wave functions at NNNLO: implications for <math>t\bar{b}</math> Threshold and bottomonium physics</i>“</p>   |
| 14:50 – 15:20 Uhr | <p><b>C5</b></p> <p>Luminita Mihaila (KA): „<i>Four-loop beta functions for various group structures</i>“</p> <p>Matthias Steinhauser (TH Karlsruhe): „<i>NNLO corrections to <math>B \rightarrow X_s \gamma</math></i>“</p>  |
| 15:20 – 15:50 Uhr | <p><b>C6</b></p> <p>Schedar Marchetti (KA): „<i>QCD corrections to the electric dipole moment of the neutron in the MSSM</i>“</p>   |
| 15:50 – 16:00 Uhr | <b>Final discussion</b>   |

# Teilnehmerliste

## SFB/TR9 Treffen am 22. und 23. Februar in Aachen

(Stand 1.2.07)

| <i>Name</i>                     | <i>Standort</i> | <i>Teilprojekt</i> |
|---------------------------------|-----------------|--------------------|
| <b>TH Karlsruhe</b>             |                 |                    |
| Bähr Manuel                     | KA              | B5                 |
| Bekavac Stefan                  | KA              | C5                 |
| Bell Guido, Dr.                 | KA              | A1                 |
| Bozzi Giuseppe, Dr.             | KA              | B5                 |
| Brod Joachim                    | KA              | C6                 |
| Chetyrkin Konstantin, Dr.       | KA              | A1                 |
| Grzelinska Agnieszka, Dr.       | KA              | A1                 |
| Gorbahn Martin, Dr.             | KA              | C6                 |
| Hankele Vera                    | KA              | B5                 |
| Kiyo Yuichiro, Dr.              | KA              | C3                 |
| Klämke Gunnar                   | KA              | B5                 |
| Konar Partha, Dr.               | KA              | B5                 |
| Kühn Johann, Prof.              | KA              | A1                 |
| Marchetti Schedar, Dr.          | KA              | C6                 |
| Maierhöfer Philipp              | KA              | A1                 |
| Marquard Peter, Dr.             | KA              | A1                 |
| Metzler Falk                    | KA              | A1                 |
| Mihaila Luminita , Dr.          | KA              | C5                 |
| Nierste Ulrich, Prof.           | KA              | C6                 |
| Penin Alexander, Dr.            | KA              | A1                 |
| Piclum Jan                      | KA              | C3                 |
| Plätzer Simon                   | KA              | B5                 |
| Scharf Andreas                  | KA              | A1                 |
| Schnitter Karsten               | KA              | C6                 |
| Schulze Markus                  | KA              | A1                 |
| Seidel Dirk, Dr.                | KA              | C5                 |
| Staudenmaier Hans-Martin, Prof. | KA              | A2                 |
| Steinhauser Steinhauser, Prof.  | KA              | C5                 |
| Tentyukov Mikhail, Dr.          | KA              | A2                 |

| <i>Name</i>               | <i>Standort</i> | <i>Teilprojekt</i> |
|---------------------------|-----------------|--------------------|
| Trine Stephanie, Dr.      | KA              | C6                 |
| Werner Matthias           | KA              | B5                 |
| Westhoff Susanne          | KA              | C6                 |
| Worek Malgorzata, Dr.     | KA              | B5                 |
| Uwer Peter Dr.            | KA              | B5                 |
| Zeppenfeld Dieter, Prof.  | KA              | B5                 |
|                           |                 |                    |
| <b>RWTH Aachen</b>        |                 |                    |
| Beneke Martin, Prof       | AC              | B4, C1, C3         |
| Berge Stefan, Dr.         | AC              | C4                 |
| Bernreuther Werner, Prof. | AC              | C4                 |
| Breising Silja            | AC              | B4                 |
| Chung Cheng-Han           | AC              | B5                 |
| Falgari Pietro            | AC              | B4                 |
| Fücker Michael            | AC              | C4                 |
| Huber Tobias, Dr.         | AC              | C1                 |
| Krämer Michael, Prof      | AC              | B5                 |
| Mück Alexander, Dr.       | AC              | B5                 |
| O` Leary Ben              | AC              | B5                 |
| Robens Tania, Dr.         | AC              | B5                 |
| Rohrer Johannes           | AC              | C1                 |
| Schuller Kurt             | AC              | C3                 |
| Schwinn Christian Dr.     | AC              | B4                 |
| Tarasov Oleg, Dr.         | AC              | C1                 |
| Vernazza Leonardo         | AC              | C6                 |
| Ziethe Jörg               | AC              | C4                 |
|                           |                 |                    |
| <b>HU Berlin</b>          |                 |                    |
| Bär Oliver, Dr.           | HU              | A3                 |
| Leder Björn               | HU              | B2                 |
| Meyer Harvey, Dr.         | HU              |                    |
| Takeda Shinji, Dr.        | HU              | A3                 |
| Witzel Oliver             | HU              | B2                 |
| Wolff Uli, Prof.          | HU              | A3, B2             |
|                           |                 |                    |
| <b>DESY Zeuthen</b>       |                 |                    |

| <i>Name</i>               | <i>Standort</i> | <i>Teilprojekt</i> |
|---------------------------|-----------------|--------------------|
| Actis, Dr.                | DZ              |                    |
| Bierenbaum Isabella , Dr. | DZ              | B3                 |
| Blossier, Dr.             | DZ              |                    |
| Blümlein Johannes, Dr.    | DZ              | B3                 |
| Garron Nicolas, Dr.       | DZ              | C1                 |
| Guazzini Daminao          | DZ              |                    |
| Jansen Karl, Dr.          | DZ              | B3                 |
| S. Klein (Doktorand)      | DZ              |                    |
| Mitov, Dr.                | DZ              |                    |
| Moch Sven-Olaf, Dr.       | DZ              | B3                 |
| Riemann Tord, Dr.         | DZ              | B1                 |
| Rogal , Dr.               | DZ              |                    |
| Shindler Andrea, Dr.      | DZ              | B3                 |
| Sommer Rainer, Dr.        | DZ              | C1                 |
| Tausk, Dr.                | DZ              |                    |