Sektion 7

Mathematische Physik

Martin Zirnbauer (Köln)

Montag, 19. September   **Physik, Seminarraum der theoretischen Physik**

14:00   Volker Bach (Braunschweig)
           Existence and construction of resonances in minimally coupled nonrelativistic QED

15:00   Michael Baake (Bielefeld)
           Kinematic diffraction from a mathematical viewpoint

           16:00h – 16:30h Pause

16:30   Benjamin Schlein (Bonn)
           The average density of states of hermitian Wigner matrices

17:30   Wojcieck de Roeck (Heidelberg)
           Diffusion in Hamiltonian models

Dienstag, 20. September   **Physik, Seminarraum der theoretischen Physik**

14:00   Christoph Schweigert (Hamburg)
           Higher categories in field theory - an invitation

15:00   Dorothea Bahns (Göttingen)
           String theory outside the critical dimension

Mittwoch, 21. September   **Physik, Seminarraum der theoretischen Physik**

14:00   Herbert Spohn (München)
           The one-dimensional KPZ equation and its universality class

15:00   Leonid Pastur (Kharkiv, Ukraine)
           Fluctuation laws of spectral statistics for large random matrices

           16:00h – 16:30h Pause

16:30   Manfred Salmhofer (Heidelberg)
           Renormalization group analysis of Fermi systems with pointlike singularities

Donnerstag, 22. September   Physik, Seminarraum der theoretischen Physik

14:00   Rainer Verch (Leipzig)
            Quantum fields on non-commutative space: non-commutative potential scattering and Wick rotation

15:00   Sefan Weinzierl (Mainz)
            Hidden mathematical beauty in scattering amplitudes

            16:00h – 16:30h Pause

16:30   Hanno Gottschalk (Wuppertal)
            On the Anti-de-Sitter / conformal field theory conjecture from a Euclidean quantum field standpoint

17:30   Klaus Fredenhagen (Hamburg)
            Epstein-Glaser renormalization and Batalin-Vilkovisky formalism