

## Vorträge

Mittwoch, 30. Juni 2010, ab 16:15 Uhr, Seminarraum Olga Taussky-Todd (C 209), UZA 4  
**Mathematisches Kolloquium – Einladung zu einem Vortrag im Rahmen der Habilitation von Dr. Jakob Kellner (Forschungsplattform „Kurt Gödel Research Center“: „Forcing“**

**Abstract:** I will give a ridiculously brief introduction to mathematical logic and set theory, a very sketchy overview of the method of forcing, and I will mention some recent developments in forcing. The talk (or at least the first half) should be accessible to a general mathematical audience.

**Dekan Univ.-Prof. Dr. Harald Rindler, O. Univ.-Prof. Dr. Sy-David Friedman**

Donnerstag, 1. Juli 2010, ab 14:00 Uhr, HS 2, UZA 2

**Außerordentliches Mathematisches Kolloquium**

**Prof. Dr. Simon Brendle (Stanford University): „Curvature, Sphere, Theorems, and the Ricci Flow“**

**Abstract:**

In 1926, Hopf proved that any compact, simply connected Riemannian manifold with constant curvature 1 is isometric to the standard sphere. Motivated by this result, Hopf posed the question of whether a compact, simply connected manifold with suitably pinched curvature is topologically a sphere. This question has been studied by many authors over the past six decades, a milestone being the Topological Sphere Theorem proved by Berger and Klingenberg in 1960.

In this lecture, I will discuss the history of this problem, and describe the proof (joint with R. Schoen) of the Differentiable Sphere Theorem. This theorem classifies all manifolds with  $1/4$ -pinched curvature up to diffeomorphism. The distinction between homeomorphism and diffeomorphism is significant in light of the exotic spheres constructed by Milnor; the proof uses the Ricci flow technique introduced by Hamilton.

**Dekan Univ.-Prof. Dr. Harald Rindler**

Montag, 21. Juni 2010, ab 9:15 Uhr bis Mittwoch, 30. Juni 2010 ab 9:30 Uhr, ESI Boltzmann Lecture Hall, Boltzmannngasse 9, 1090 Wien

**ESI Workshop: “D-branes Effective Actions and Homological Mirror Symmetry“**  
organized by L. Katzarkov, A. Klemm, M. Kreuzer, D. Zagier

**Link:** <http://www.esi.ac.at/further/KKZ.pdf>

Montag, 28. Juni 2010 ab 10:00 Uhr bis Freitag, 2. Juli 2010 ab 10:00 Uhr, TU Wiedner Hauptstraße 8-10, Freihaus, 2 Stock, HS 8 (Nöbauer HS), 1040 Wien

**21st international Meeting on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms**

**Link:** <http://www.aofa10.at>

Montag, 28. Juni 2010, von 16:30 Uhr – 18:00 Uhr, Seminarraum D 107, UZA 4

**Im Rahmen des Seminars Finanzmathematik**

**Vilimir Yordanov: “Optimal Treasuries Issuance”**

Dienstag, 29. Juni 2010, von 11:15 Uhr – 12:45 Uhr, Seminarraum S1, Althanstraße 12-14, 1090 Wien

**Complex Analysis Seminar:**

**Prof. Mihai Putinar: “Hermitian sums of squares on real algebraic varieties”**

**Link:** <http://plone.mat.univie.ac.at/research/groups/scv/abstracts10S/06-29-10/>