

Vorträge

Mittwoch, 20. Oktober 2010, ab 15:00 Uhr, Seminarr. Olga Taussky-Todd (C 209), UZA 4
Mathematisches Kolloquium – Einladung zu einem Vortrag im Rahmen der Habilitation von Dr. Mathias Beiglböck: „Measure Theory, Topology, Combinatorics and Applications“

Abstract: Since I have started to study, I am equally attracted by discrete and continuous mathematics, without being able to decide which one to favor. Luckily touching points are widespread and there seem to be plenty of problems in either of the two parts that can benefit from a reinterpretation in the other. I will try to support this point of view with examples from ergodic theory, optimal transport and stochastic analysis.

Dekan Univ.-Prof. Dr. Harald Rindler, O. Univ.-Prof. Mag. Dr. Walter Schachermayer

(16:00 Uhr bis 16:15 Uhr: K & K im Common Room)

Mittwoch, 20. Oktober 2010, ab 16:15 Uhr, Seminarr. Olga Taussky-Todd (C 209), UZA 4
Mathematisches Kolloquium – Einladung zu einem Vortrag im Rahmen der Habilitation von Dr. Armin Rainer: „Quasianalytic perturbation theory and the convenient setting for Denjoy-Carleman classes“

Abstract: At the heart of classical perturbation theory stands the study of the regularity of the eigenvalues and the eigenvectors of diagonalizable linear operators. This problem, which has numerous applications in the natural sciences, is intimately related to the question, how regular the roots of a smooth family of polynomials can be chosen. I will give an optimal answer for quasianalytic (i.e. with injective Taylor homomorphisms) families of polynomials, respectively normal matrices, based on resolution of singularities. Then I shall aim for analogous results in infinite dimensions, that is, for unbounded normal operators with compact resolvents and common domain of definition. This requires a differential (convenient) calculus for quasianalytic mappings beyond Banach spaces, which we recently developed for (quasianalytic and non-quasianalytic) Denjoy-Carleman classes. These are function spaces intermediate between real analytic and C^∞ , characterized by growth conditions on their Taylor expansions. I will briefly present the main ideas.

Dekan Univ.-Prof. Dr. Harald Rindler, V.-Prof. Mag. Dr. Herwig Hauser

Montag, 18. Oktober 2010, von 17:00 Uhr bis 18:30 Uhr, Seminarraum C 209
Vortrag im Rahmen des Seminars Finanzmathematik
Eberhard Mayerhofer: “A characterization of non-central Wishart distributions”

Dienstag, 19. Oktober 2010, ab 12:00 Uhr, Seminarraum D 103, UZA 4
Complex Analysis Seminar:
Dr. Robert Juhlin: “Parametrization of the local automorphism group of a 1-nonminimal hypersurface”
Link: <http://plone.mat.univie.ac.at/research/groups/scv/abstracts10F/10-19-10/>

Dienstag, 19. Oktober 2010, ab 9:30 Uhr bis Freitag, 22. Oktober 2010, ab 9:30 Uhr, ESI Boltzmann Lecture Hall, Boltzmannngasse 9, 1090 Wien
ESI
SCHOOL on “Higher Structures in Mathematics and Physics”
organized by A. Alekseev, H. Bursztyn, M. Podkopaeva, T. Strobl
Link: <http://www.esi.ac.at/activities/lectures.html>

Donnerstag, 21. Oktober 2010, ab 16:00, ESI Boltzmann Lecture Hall, Boltzmannngasse 9, 1090 Wien
ESI Seminar
Prof. Thomas Schaefer: “Nearly Perfect Fluidity in Cold Atomic Fermi Gases”
organized by A. Alekseev, H. Bursztyn, M. Podkopaeva, T. Strobl
Link: <http://www.esi.ac.at/activities/lectures.html>

Donnerstag, 21. Oktober, von 12:00 Uhr bis 13:00 Uhr, Seminarraum D 103

Algebra Kolloquium

Univ.-Prof. Dr. Christian Krattenthaler: „Computation of the connective constant of the honeycomb lattice (after Hugo Duminil-Copin and Stanislav Smirnov)“

Link: <http://plone.mat.univie.ac.at/vortrage/ak>