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Fakultät für Mathematik

## Vorträge

**Dienstag, 8. April 2014, von 16:00 Uhr bis 17:00 Uhr, Besprechungszimmer 03.136,  
3. Stock, Oskar-Morgenstern-Platz 1, 1090 Wien**

**Außerordentliches Mathematisches Kolloquium - Vortrag im Rahmen der Habilitation**

**Dr. Martin Ehler (Fakultät für Mathematik, Universität Wien):**

**„Computational Harmonic Analysis of highdimensional data“**

### *Abstract:*

We discuss tools and new approaches to the analysis of high-dimensional data from a computational harmonic analysis point of view. These approaches lead to 3 topics in this talk: multiscale analysis (using wavelets), dimension reduction (using projectors), and model-free tools (using data-defined wavelets). We provide an overview focussing on the interplay between the 3 topics and discuss relations to further fields such as phase retrieval and design theory.

**Univ.-Prof. Mag. Dr. Karlheinz Gröchenig, Dekan Univ.-Prof. Dr. Harald Rindler**

**Mittwoch, 9. April 2014, ab 16:15 Uhr, Sky-Lounge (12 OG),**

**Oskar-Morgenstern-Platz 1, 1090 Wien**

**Mathematisches Kolloquium**

**Prof. Dr. Vieri Benci (Universita di Pisa, Dipartimento di Matematica Applicata):**

**“The classical entropy of quantum states”**

*Abstract: Roughly speaking a solitary wave is a solution of a .eld equation whose energy travels as a localized packet and which preserves this localization in time. A soliton is a solitary wave which exhibits some strong form of stability so that it has a particle-like behavior. This talk is devoted to solitary waves and solitons whose existence is related to the ratio (energy)/(hylenic charge). The name hylenic charge refers to an other invariant of motions which depends on the particular equation we are dealing with. The class of hylomorphic solitons includes the Qballs, which are spherically symmetric solutions of the nonlinear Klein-Gordon equation, as well as solitary waves which occur, by the same mechanism, in the nonlinear Schroedinger equation and in gauge theories. Also waves in nonlinearly supported beams can be considered hylomorphic solitons.*

**15:45 Uhr – 16:15 Uhr K & K (Sky Lounge)**

**Univ.-Prof. MMag. Dr. Michael Kunzinger, Paolo Giordano, PhD**

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



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Mittwoch, 9. April 2014, von 10:00 Uhr bis 11:30 Uhr, Seminarraum 9. 2 Stock ,  
Oskar-Morgenstern-Platz 1, 1090 Wien  
Vortrag im Rahmen der Vorlesung „Klassische Geometrie“  
Josef Schicho: „6 durch 5“  
Organized by H. Hauser

Mittwoch, 9. April 2014, von 15:00 Uhr bis 15:45 Uhr, Skylounge (12. OG),  
Oskar-Morgenstern-Platz 1, 1090 Wien  
**Lectures for Everybody**  
Christian Krattenthaler: “Srinivasa Ramanujan - Life and Mathematics”  
organized by H. Hauser

Montag, 7. April 2014, ab 9:00 Uhr bis Mittwoch, 9. April 2014, WPI Seminarraum,  
8. Stock, Oskar-Morgenstern-Platz 1, 1090 Wien  
**Workshop on "Mathematical Finance/Energy"**  
Organized by F. Benth (U. Oslo), A. Veraart (Imperial College)  
Details siehe Link: [http://www.wpi.ac.at/event\\_view.php?id\\_activity=183](http://www.wpi.ac.at/event_view.php?id_activity=183)

Dienstag, 8. April 2014, von 11:15 Uhr bis 12:45 Uhr, Seminarraum 12, 2. Stock,  
Oskar-Morgenstern-Platz 1, 1090 Wien  
**Complex Analysis Seminar**  
Jasmin Raissy: “Wolff-Denjoy theorems in non-smooth convex domains”  
<http://www.univie.ac.at/complexanalysis/Activities/Seminar2014.html>

Donnerstag, 10. April 2014, von 16:00 Uhr bis 18:00 Uhr, Josephinum,  
SR (Zi. O2.101), Währingerstr. 25, 1090 Wien  
**KGRC Research Seminar**  
Yurii Khomskii (KGRC): “Full-splitting Miller trees and infinitely often equal reals”

Donnerstag, 10. April 2014, von 10:30 Uhr bis 12:00 Uhr, Besprechungszimmer, 3.  
Stock, Oskar-Morgenstern-Platz 1, 1090 Wien  
**GAP Seminar**  
Eduard Nigsch : “Generalized functions: an introduction”  
Link: [http://www.mat.univie.ac.at/~gap\\_seminar/](http://www.mat.univie.ac.at/~gap_seminar/)  
Organized by M. Bauer , V. Branding, A. Bartscher, D. Fajman, F. Genoud, J. Joudioux

Freitag, 11. April 2014, von 11:15 Uhr bis 12:45 Uhr, TU Institut für Diskrete  
Mathematik und Geometrie, Freihaus, grüner Turm (A), 5. Stock, kleiner Seminarraum  
(DA 05 C22), Wiedner Hauptstraße 8-10, 1040 Wien  
**Algebra Seminar**  
Bernhard Garn: „Clubs und stationäre Mengen; Kardinalzahlarithmetik“