



## Vorträge

Mittwoch, 4. Dezember 2013, ab 16:15 Uhr, Sky Lounge (12. Stock),

Oskar-Morgenstern-Platz 1, 1090 Wien

**Mathematisches Kolloquium – Antrittsvorlesung**

**Dr. Martin Ehler (Fakultät für Mathematik): “Computational harmonic analysis of high-dimensional data”**

*Abstract: The recurrent theme of this talk is the analysis of high-dimensional data in one way or the other. First, some aspects of phase retrieval shall be discussed, a problem that usually refers to high-dimensional signal reconstruction from a collection of magnitudes of rank-one projections. We develop an algorithm for signal reconstruction from magnitudes of higher rank projections as long as the ambient dimension does not exceed a few hundred. In the recent literature, the question is raised if such magnitudes carry more information than with rank-one. We argue that they do by providing a rank-two example that enables reconstruction from fewer measurements than with rank-one. Second, we present a reconstruction algorithm without any restrictions on the ambient dimension provided the signal has only few dominating nonzero entries. Third, some recent results on the analysis of high-dimensional data using wavelets on data-defined manifolds are discussed.*

**15:45 Uhr – 16:15 Uhr K & K**

**16:15 Uhr – Vortrag, anschließend kleines Buffet**

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

Montag, 2. Dezember 2013, ab 10:00 Uhr bis Donnerstag, 5. Dezember 2013,

ab 10:00 Uhr,

Erwin Schrödinger Lecture Hall, Boltzmanng. 9, 1090 Wien

**ESI Workshop**

**“Heights in Diophantine geometry, group theory and additive combinatorics”**

(Details siehe Attachment)

organized by R. Tichy, J. Vaaler, M. Widmer, U. Zannier

Montag, 2. Dezember ab 13:00 Uhr bis Donnerstag, 5. Dezember 2013, ab 10:30 Uhr,

Seminarraum 08.135, 8. Stock, Oskar-Morgenstern-Platz 1, 1090 Wien

**WPI Workshop on “Nonlocality in turbulence”**

(Details siehe Link)

[http://www.wpi.ac.at/event\\_view.php?id\\_activity=176](http://www.wpi.ac.at/event_view.php?id_activity=176)

organized by N. J. Mauser, A. Schekochihin, A. Tsinober

Dienstag, 3. Dezember 2013, von 15:00 Uhr bis 17:00 Uhr, Seminarraum 8, 2. Stock

Oskar-Morgenstern-Platz 1, 1090 Wien

**Geometry and Analysis on Groups – Research Seminar**

François Dahmani: “The conjugacy problem for some automorphisms of free groups, through suspensions”

<http://www.mat.univie.ac.at/~dosaj/GGTWien/Seminar.html>



Dienstag, 3. Dezember 2013, von 11:15 Uhr bis 12:45 Uhr, Seminarraum 12, 2. Stock  
Oskar-Morgenstern-Platz 1, 1090 Wien

**Complex Analysis Seminar**

Michael Reiter: „Topological Aspects of Holomorphic Maps of Hyperquadrics from  $\mathbb{C}^2$  to  $\mathbb{C}^3$ ”

<http://www.univie.ac.at/complexanalysis/Activities/Seminar2013.html>

Dienstag, 3. Dezember 2013, von 15:15 Uhr bis 16:45 Uhr, TU Institut für Diskrete  
Mathematik und Geometrie, Freihaus, grüner Turm (A), 8. Stock, Dissertantenr.,  
Wiedner Hauptst. 8-10, 1040 Wien

**Arbeitsgemeinschaft Diskrete Mathematik**

Matjaz Konvalinka: “The role of residue and quotient table in the theory of k-Schur  
functions”

Mittwoch, 4. Dezember 2013, ab 11:15 Uhr, Seminarraum 12, 2. Stock,  
Oskar-Morgenstern-Platz 1, 1090 Wien

**NuHag Seminar**

Maurice De Gosson: „Quantum Indeterminacy, Polar Duality, and Symplectic  
Capacities”

<http://www.univie.ac.at/nuhag-php/home/seminar.php>

Donnerstag, 5. Dezember 2013, von 16:00 Uhr bis 18:00 Uhr, Josephinum,  
SR (Zi. O2.101), Währingerstr. 25, 1090 Wien

**KGRC Research Seminar**

Andrea Medini: “Seven characterizations of non-meager P-filters”

[http://www.logic.univie.ac.at/Research\\_seminar.html](http://www.logic.univie.ac.at/Research_seminar.html)