



## Vorträge

Mittwoch, 5. März 2014, ab 16:15 Uhr, Sky-Lounge,  
Oskar-Morgenstern-Platz 1, 1090 Wien

### Mathematisches Kolloquium

Prof. Dr. Robert Seiringer (Institute of Science and Technology Austria):  
“Structure of the excitation spectrum for many-body quantum systems”

*Abstract: Many questions concerning models in quantum mechanics require a detailed analysis of the spectrum of the corresponding Hamiltonian, a linear operator on a suitable Hilbert space. Of particular relevance for an understanding of the low-temperature properties of a system is the structure of the excitation spectrum, which is the part of the spectrum close to the spectral bottom. We present recent progress on this question for bosonic many-body quantum systems with weak two-body interactions. Such system are currently of great interest, due to their experimental realization in ultra-cold atomic gases. We investigate the accuracy of the Bogoliubov approximations, which predicts that the low-energy spectrum is made up of sums of elementary excitations, with linear dispersion law at low momentum. The latter property is crucial for the superfluid behavior the system.*

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

Dekan Univ.-Prof. Dr. Harald Rindler, Univ.-Prof. Dipl.-Ing. Dr. Gerald Teschl

Montag, 3. März 2014, ab 15:00 Uhr, SR 9 Biomathematik, Oskar-Morgenstern-Platz  
1, 1090 Wien

### Arbeitsgemeinschaft Biomathematik

Sergey Gavrilets: “Within-group inequality, between-group conflict, and the evolution  
of social instincts”

Dienstag, 4. März 2014, ab 14:00 Uhr, Hörsaal 02, Oskar-Morgenstern-Platz 1, 1090  
Wien

### Öffentliche Defensio

Mag.rer.nat Angelika Höfler: „Necessary Density Conditions for Frames on  
Homogeneous Groups”

Mittwoch, 5. März 2014, ab 11:15 Uhr, Seminarraum 12, 2. Stock, Oskar-Morgenstern-  
Platz 1, 1090 Wien

### NuHag Seminar

Martin Ehler: “Phase retrieval with few measurements”

Donnerstag, 6. März 2014, ab 10:30 Uhr, Besprechungszimmer, 3. Stock,  
Oskar-Morgenstern-Platz 1, 1090 Wien

### GAP Seminar

David Fajman: “Einstein-flow in 2+1 dimensions”

Link: [http://www.mat.univie.ac.at/~gap\\_seminar/](http://www.mat.univie.ac.at/~gap_seminar/)

Organized by M. Bauer , V. Branding, A. Burtscher, D. Fajman, F. Genoud, J. Joudioux

**Donnerstag, 6. März 2014, von 16:30 Uhr bis 18:00 Uhr, Seminarraum 101 C, 4. Stock,  
TU Wien, Wiedner Hauptstraße 8, 1040 Wien**

**Arbeitsgemeinschaft Finanzmathematik**

**Peter Markowich: “Price Formation Modeling with PDE: From Boltzmann to Free  
Boundaries”**

**Link: <http://www.fam.tuwien.ac.at/events/agfm/>**

**organized by Finanz- und Versicherungsmathematik (TU Wien), Mathematical Finance  
and Probability Theory (Uni Wien), Institut für Statistik und Mathematik (WU Wien)**

**Donnerstag, 6. März 2014, von 16:00 Uhr bis 18:00 Uhr, Josephinum,  
SR (Zi. O2.101), Währingerstr. 25, 1090 Wien**

**KGRC Research Seminar**

**Valentina Harizanov: “Orders on groups, their spaces, and complexity”**

**[http://www.logic.univie.ac.at/2014/Talk\\_03-06\\_a.html](http://www.logic.univie.ac.at/2014/Talk_03-06_a.html)**

**Freitag, 7. März 2014, ab 14:00 Uhr, SR 9 Biomathematik, Oskar-Morgenstern-Platz 1,  
1090 Wien**

**The Budapest - Wien Dynamics seminar**

**Damien Thomine (Rennes): Local time and first return time of periodic semi-flows**

**Mikko Stenlund (Helsinki): Coupling for a random dynamical system.**

**organized by H. Bruin, D. Szasz**