

## Vorträge

Montag, 29. April 2013, von 13:30 Uhr bis 14:15 Uhr, Seminarraum C 714, UZA 4  
**Mathematisches Kolloquium - Vortrag im Rahmen der Habilitation von Dr. Bogdan-Vasile Matioc (Fakultät für Mathematik, Universität Wien)**  
„On the regularity and symmetry of traveling gravity waves “

Abstract:

We discuss the regularity and symmetry properties of two-dimensional periodic water waves traveling at constant speed over a flat horizontal bed when gravity is the sole restoring force. The situation considered is that of rotational waves possessing a general vorticity function, but we exclude the presence of stagnation points, that is fluid particles that travel horizontally with the same speed as the wave. Requiring merely integrability of the vorticity function, we first show that the streamlines of such waves are real-analytic graphs. Particularly, the wave profile itself enjoys this strong regularity property. This result enables us prove that the symmetric waves with one crest and trough per period are characterized, within the set of all traveling periodic gravity waves, by the property that all the streamlines have a global minimum on the same vertical line. (joint works with Joachim Escher and Anca Matioc).

Dekan Univ.-Prof. Dr. Harald Rindler, Univ.-Prof. Dr. Norbert Mauser

Montag, 29. April 2013, ab 9:00 Uhr, bis Dienstag, 30. April 2013, ab 9:30 Uhr, Erwin Schrödinger Lecture Hall, Boltzmanng. 9, 1090 Wien  
**ESI Anniversary – Two Decades at the Interface of Mathematics and Physics**  
The [Un]reasonable Effectiveness of Mathematics in the Natural Sciences  
(Details siehe Attachment)

Donnerstag, 2. Mai 2013, von 16:00 Uhr bis 18:00 Uhr, Josephinum,  
SR (Zi. O2.101), Währingerstr. 25, 1090 Wien  
**KGRC Research Seminar**  
Radek Honzik: tba  
[http://www.logic.univie.ac.at/Current\\_talk.html](http://www.logic.univie.ac.at/Current_talk.html)

Donnerstag, 2. Mai 2013, von 17:00 Uhr bis 18:30 Uhr, Seminarraum C 209, UZA 4  
**Vortrag im Rahmen des Seminars Finanzmathematik**  
Luis G. Gorostiza: Oscillatory Fractional Brownian Motion and Related Processes“  
Link: [http://www.mat.univie.ac.at/~finance\\_hp/seminarSS13.html](http://www.mat.univie.ac.at/~finance_hp/seminarSS13.html)

Freitag, 3. Mai 2013, ab 12:15 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**  
Stefan Hetzl: „Formale Beweise, der Satz von Herbrand und Baumsprachen“  
Link: <http://www.dmg.tuwien.ac.at/fg1/seminar.html>