

## Vorträge

Mittwoch, 19. Mai 2010, von 16:15 Uhr – 16:45 Uhr,  
Olga Taussky-Tod Raum (C 209), UZA 4  
(15:45 Uhr bis 16:15 Uhr: K & K im Common Room)

### Mathematisches Kolloquium

Prof. Manuel Kauers (RISC Linz): “Where are the Nice Equations”

#### Abstract:

Given the first terms of a sequence of numbers, we can compute potential recurrence equations the sequence satisfies by choosing a suitable template recurrence with undetermined coefficients, matching it against the given sequence sample, obtaining a system of constraints on the undetermined coefficients and solving this system. Of particular interest are linear recurrence equations  $p_0(n) f(n) + p_1(n) f(n+1) + \dots + p_r(n) f(n+r)$  of order  $r$  where the  $p_i(n)$  are polynomials in  $n$  of degree  $d$ . Order  $r$  and degree  $d$  have to be somehow chosen a priori. But how? There are two strategies. One consists of making  $r$  as small as possible and  $d$  as big as necessary, and the other consists of taking  $d$  and  $r$  approximately balanced. In large scale examples, both strategies have appealing advantages as well as prohibitive disadvantages. We will show how the two strategies can be combined such that the advantages take effect and the disadvantages are avoided. We will comment on some recent applications of this method in combinatorics, particle physics and partition theory. Finally, we will speculate about possible multivariate generalizations.

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

Montag, 17. Mai 2010, von 16:30 Uhr – 18:00 Uhr, Seminarraum D 107, UZA 4

### Im Rahmen des Seminars Finanzmathematik

Constantin Tudor : „Selected topics in fractional and sub-fractional Brownian motions“

Montag, 17. Mai 2010 bis Freitag, 21. Mai 2010, WPI Seminarr. C 714, Nordbergstr. 15, 1090 Wien

### WPI: “Numerical models and methods for compressible and two-phase flows”

organized by WPI

Link: [http://www.wpi.ac.at/event\\_view.php?id\\_activity=125](http://www.wpi.ac.at/event_view.php?id_activity=125)

Dienstag, 18. Mai 2010, ab 13:00 Uhr, D 103, UZA 4

### Öffentliche Defensio

Mag. Stephan Peischl: „Mathematical models of frequency-dependent selection with dominance“

Dienstag, 18. Mai 2010, von 11:15 Uhr – 12:45 Uhr, Seminarraum S1, Althanstraße 12-14, 1090 Wien

### Complex Analysis Seminar

Prof. Frank Kutzschebauch (Universität Bern): „A solution to the Gromov-Vaserstein Problem“

Link: <http://plone.mat.univie.ac.at/research/groups/scv/abstracts10S/05-18-10/>

Dienstag, 18. Mai 2010, ab 14.15 Uhr, ESI-Hörsaal, Boltzmanngasse 5/5, 1090 Wien

### Seminar f. Mathematische Physik

F. Pinsker (Univ. Wien): „Schnell rotierende Bose-Gase: der Effekt von Dirichlet-Randbedingungen“

Dienstag, 18. Mai 2010, ab 15:00 Uhr, Seminarraum D103, UZA 4

### Arbeitsgemeinschaft Biomathematik

Michael König (ETH Zürich): “Centrality based network formation with limited information”

Mittwoch, 19. Mai 2010, ab 12:00 Uhr, TU, Institut für Statistik und Wahrscheinlichkeitstheorie, Wiedner Hauptstraße 8, 1040 Wien, Turm A (grüner Bereich), 6. Stock, Seminarraum 107

### Gastvortrag

Prof. Dr. Klaus D. Schmidt (TU Dresden): Markov-Ketten und Bonus-Malus Systeme

Donnerstag, 20. Mai 2010, ab 13:30 Uhr, Währingerstr. 17/1 Stock/Zi. 118

### Fak. f. Physik Gravitationsphysik

O. Ortiz (Univ. de Cordoba/Albert Einstein Inst.): “Well-posedness, linear perturbations, and mass conversation for the axisymmetric Einstein equations“

Donnerstag, 20. Mai 2010, ab 17:15 Uhr, HS 1, UZA 2

### Fachdidaktisches Kolloquium

OSTR Jan Hendrik Müller (Gym. Attendorn, TU Dortmund)

„Brücken zu Funktionen (bauen)“.

**Donnerstag, 20. Mai 2010, 17:15 Uhr bis 18:00 Uhr, Olga Taussky-Todd Raum (C 209), UZA 4  
(Kaffeejause: 17:00 Uhr bis 17:15 Uhr im Common Room)**

**Dissertantenkolloquium**

**Dipl.Phys. Matthias Sommer: „Energy, potential enstrophy and phase space volume conservation properties of the shallow-water equations on a staggered geodesic grid“**

**Link: <http://www.mat.univie.ac.at/~disskoll/disskoll/sommer.html>**

**Freitag, 21. Mai 2010, von 12:30 Uhr, Seminarraum Olga Taussky-Tod Raum (C 209), UZA 4**

**Algebra Kolloquium**

**F. Bogomolov: „Unramified correspondences“**

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