



Vorträge

**Mittwoch, 13. Mai 2015, ab 16:15 Uhr, Sky-Lounge (12 OG),
Oskar-Morgenstern-Platz 1, 1090 Wien**

**Mathematisches Kolloquium anlässlich der Verleihung des Ehrendoktorats
an Prof. Kontsevich**

**Prof. Dr. Maxim Kontsevich (Institut des Hautes Études Scientifiques):
“Introduction to tropical mathematics”**

Abstract:

I will introduce basic notions of tropical algebra and geometry. A tropical semiring is endowed with operations of addition and multiplication (no subtraction!) satisfying the usual rules of associativity, commutativity and distributivity, plus the property saying that the addition is idempotent. The main example of a tropical semiring is the set of real numbers with the addition given by the maximum, and the multiplication given by the usual sum. There are tropical analogs of algebraic subvarieties of a coordinate space. These tropical varieties are piecewise-linear closed subsets of the euclidean space. Many analogs of classical results from algebraic geometry hold in the tropical setting. I will explain the relation between tropical geometry and algebraic geometry over nonarchimedean fields. Also I'll speak about applications of tropical geometry to Mirror Symmetry, and to potential counterexamples to the Hodge conjecture

**15:45 Uhr – 16:15 Uhr K & K (Sky Lounge)
16:15 Vortrag, anschließend kleines Buffet**

**Univ.-Prof. Ludmil Katzarkov, PhD
Dekan Univ.-Prof. Dr. Harald Rindler**

**Dienstag, 12 Mai 2015, ab 16:15 Uhr, Sky-Lounge (12 OG),
Oskar-Morgenstern-Platz 1, 1090 Wien**

Außerordentliches Mathematisches Kolloquium

Univ.-Prof. Dr. R. Tyrrell Rockafellar (University of Washington, Seattle, University of Florida): “Stochastic Variational Inequalities: Singlestage to Multistage”

Abstracts:

Variational inequality modeling, analysis and computations are important for many applications, but most of the subject has been developed in a deterministic setting with no uncertainty in a problem's data. In recent years research has proceeded on a track to incorporate stochasticity in one way or another. However, the main focus has been on a rather limited idea of what a stochastic variational inequality might be.

Because variational inequalities are especially tuned to capturing conditions for optimality and equilibrium, stochastic variational inequalities ought to provide such service for problems of optimization and equilibrium in a stochastic setting. Therefore they ought to be able to deal with multistage decision processes involving actions that respond to increasing levels of information, which has so far hardly been the case. This can be accommodated by bringing in the tools of nonanticipativity and its martingale dualization, as will be explained.

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

**Assoz. Prof. Dr. Radu Ioan Bot, Privatdoz
Dekan Univ.-Prof. Dr. Harald Rindler**



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Fakultät für Mathematik

Montag, 11. Mai 2015, ab 9:30 Uhr bis Freitag, 15. Mai 2015, ab 10:00 Uhr,
Erwin Schrödinger Lecture Hall, Boltzmannngasse 9, 1090 Wien

ESI Programme on “Arithmetic Geometry and Automorphic Representations”
(April 7 - May 29, 2015)

Workshop II, Part 2 on “Automorphic Forms - Geometry and Arithmetic”
(Details siehe Attachment)

organized by S. S. Kudla (U Toronto), M. Rapoport (U Bonn), J. Schwermer (U Vienna)

Montag, 11. Mai 2015, ab 13:15 Uhr, ESI – Erwin Schrödinger Institut,
Boltzmannngasse 9, 2. OG., 1090 Wien

ESI-Seminar

Dr. Antonio Šiber (Institute of Physics, Zagreb, Croatia):

“Conformations of circular DNA bundles in viruses”

(Details siehe Attachment)

organized by P. Ziherl

Montag, 11. Mai 2015, ab 13:30 Uhr, Seminarraum 7, 2. Stock,
Oskar-Morgenstern-Platz 1, 1090 Wien

Vortrag

Prof. Anatoly Libgober (University of Illinois at Chicago): “Elliptic Genera”

Organized by L. Katzarkov

Dienstag, 12. Mai 2015, von 15:15 bis 16:45 Uhr, TU Dissertantenraum, Freihaus, Turm
A, 8. Stock, Wiedner Hauptstraße 8-10, 1040 Wien

AG Diskrete Mathematik

Christian Krattenthaler: “p-Divisibility of arithmetic functions”

<http://dmg.tuwien.ac.at/nfn/agdm.html>

Dienstag, 12. Mai 2015, von 15:00 Uhr bis 17:00 Uhr, Seminarraum 8, 2. Stock, Oskar-
Morgenstern-Platz 1, 1090 Wien

Geometry and Analysis on Groups

Liviu Paunescu (IMAR, Bucharest): “On the Birkhoff - von Neumann theorem in type
II₁ setting”

Organized by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/150512.html>

Dienstag, 12. Mai 2015, ab 15:00 Uhr, Besprechungsraum 9, 9. Stock, Oskar-
Morgenstern-Platz 1, 1090 Wien

Arbeitsgemeinschaft Biomathematik

Rupert Mazzucco (IIASA): “Virulence evolution in fragmented host populations with
infectivity--mobility trade-offs”



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Mittwoch, 13. Mai 2015, ab 14:00 Uhr, ESI – Erwin Schrödinger Institut,
Boltzmannngasse 9, 2. OG., 1090 Wien

ESI-Seminar

Daniel Tubbenhauer (Uni. Louvain): „From Dualities to Diagrams”

(Details siehe Attachment)

organized by N. Carqueville

Freitag, 15. Mai 2015, ab 15:00 Uhr, Seminarraum 11, 2.Stock,
Oskar-Morgenstern-Platz 1, 1090 Wien

Öffentliches Defensio

George Dimitrov, MA: “Bridgeland stability conditions and exceptional collections”

(Details siehe Attachment)

Freitag, 15. Mai 2015, ab 16:00 Uhr, ESI – Erwin Schrödinger Institut, Boltzmannngasse
9, 2. OG., 1090 Wien

ESI-Seminar

Dr. Florian Schätz (Uni. Aarhus): “Representations of the based loop space”

(Details siehe Attachment)

organized by N. Carqueville

!! Freitag, 15. Mai 2015, !! von 15:15 Uhr bis 17:00 Uhr, Besprechungsraum 9, 9. Stock

Arbeitsgemeinschaft Ergodentheorie

Maria Rita Iaco (Graz): „A bridge between ergodic theory and uniform distribution”

http://mat.univie.ac.at/~zweimueller/AG_ETHY.html