



VORTRÄGE

Donnerstag, 14. April 2016 von 16:15 bis 17:00 Uhr, Sky Lounge, OMP 1

Mathematisches Kolloquium: Kilian Raschel (Univ. de Tours): "A Human Proof of Gessel's Lattice Path Conjecture"

Abstract:

Around 2000, Ira Gessel conjectured that the number of lattice walks in the quadrant N_2 , starting and ending at the origin $(0,0)$ and consisting of East, West, North-East and South-West steps, had a simple hyper-geometric form. In the following decade, this problem became one instance in the systematic study of walks with small steps confined to the quadrant. A complete classification of these walks according to the nature of their generating function (algebraic, D-finite, non-D-finite) is now available, but Gessel's walks remain mysterious because they are the only among the 23 D-finite models that had not been given an elementary solution. Instead, Gessel's conjecture was first proved using computer algebra in 2008. A year later, the associated three-variate generating function was proved to be algebraic by a computer algebra tour de force. In this talk we will present the first human proof of Gessel's conjecture (using complex analysis). This is a joint work with Alin Bostan (Inria Saclay) and Irina Kurkova (University Paris 6).

im Anschluss vinum cum pane

Herwig Hauser, Harald Rindler

Dienstag, 12. April 2016 von 13:15 bis 14:45, Seminarraum 9, 2. OG, OMP 1

Complex Analysis SE: Gian Maria Dall'Ara (Univ. Wien): "The uncertainty principle and the d-bar problem (Part 1)"

org. by B. Lamel, M. Reiter (Details siehe Anhang)

Dienstag, 12. April 2016, von 13:15 bis 14:15 Uhr, BZ 2, 2. OG., OMP 1

Mathematical Physics Seminar

Alexei Cheviakov (Univ. Saskatchewan): „Exact Solutions of a Fully Nonlinear Two-Fluid Model”
organized by G. Teschl, O. Kostenko

<http://www.mat.univie.ac.at/~gerald/mp-sem/cheviakov16.pdf>

Dienstag, 12. April 2016, von 15:00 bis 17:00 Uhr, SR 9, 2. OG., OMP 1

Geometry and Analysis on Groups, Research SE: Alexandre Martin (Univ. Wien): "Über-contractions and acylindrical hyperbolicity"

org. by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/160412.html>

Dienstag, 12. April 2016, von 15:15 bis 16:45 Uhr, TU Dissertantenraum, Freihaus, Turm A, 8. Stock, Wiedner Hauptstraße 8-10, 1040 Wien

AG Diskrete Mathematik SE: Florian Aigner (Univ. Wien): "Fully packed loop configurations: polynomiality and nested arches"

org. by Ch. Krattenthaler

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

Donnerstag, 14. April 2016, 15:15 Uhr bis 17:00 Uhr, 09.142, 9 OG., OMP 1

AG Ergodentheorie : Ulrich Rößler (Univ. Vienna): "Scaling limit of 1-dimensional random diffusions"

org. by H. Bruin, R. Zweimüller

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



Donnerstag, 14. April 2016, 14:00 Uhr bis 15:00 Uhr, Währingerstr. 17, 2. OG., Seminarraum A
SE Gravitational Physics: Volker Branding (TU Wien): "On the nodal set of solutions to spinorial equations on closed surfaces"
org. by J. Joudioux

Donnerstag, 14. April 2016, von 16.00 Uhr bis 18:00 Uhr, Josephinum, SR 8 (Zi. 02.101),
Währinger Str. 25, 1090 Wien,
KGRC Research Seminar: Yue Yang (Nat. Univ. Singapore): "A Normal Form Theorem of Computation on Real Numbers"
org. by Kurt Gödel Research Center
http://www.logic.univie.ac.at/2016/Talk_04-14_a.html

Donnerstag, 14. April 2016, von 16:30 Uhr bis 18:00 Uhr, TU Wien, Wiedner Hauptstr. 8, FH grün, SR 4, 4. OG.
Vienna SE Mathematical Finance and Probability: David Belius (Univ. of Zürich): "Some log-correlated random fields and their extrema"
<http://www.fam.tuwien.ac.at/events/vs-mfp/>

Donnerstag, 14. April 2016, von 17:15 bis 18:15 Uhr, HS 4, 2. OG., OMP 1
Fachdidaktisches Kolloquium
ao. Univ.-Prof. i. R. Michael Grosser (Univ. Wien): „Gut erklärt – nix verstanden ? Alltagstheorien zum (nicht-)funktionieren des Mathematikunterrichts“
org. by H. Humenberger (Details siehe Anhang)