



VORTRÄGE

Mittwoch, 9. März 2016 um 16:15 Uhr, Sky Lounge, OMP 1

Antrittsvorlesung: Michael Eichmair (Univ. Wien): "Minimal surfaces, isoperimetry, and non-negative scalar curvature in asymptotically flat manifolds"

It is a classical observation that a small geodesic ball at a point of positive scalar curvature has greater volume than a Euclidean ball of the same surface area. For Queen Dido's quest for the largest possible city that can be enclosed by a given amount of perimeter, this means that a round world beats a flat one - at least on small scales. The search for optimal shapes for this particular problem and related ones has a rich history, including the development of the modern geometric calculus of variations and connections with pressing questions about space-time geometry in current research. In the first part of my talk, I will give an overview of results on the global effects of non-negative scalar curvature on the large-scale isoperimetric structure of asymptotically flat manifolds. I will then explain how these purely geometric results are tied to physical questions about the space-time evolving from such a manifold according to the Einstein equations. In the second part, I will describe the particular role of a very recent Viennese result with O. Chodosh that settles a conjecture of R. Schoen and conclude with some ideas involved in its proof: *The only asymptotically flat three-manifold with non-negative scalar curvature that admits an unbounded area-minimizing surface is flat Euclidean space.*

15.45 Uhr – 16:15 Uhr Kaffeejause, anschließend nach dem Vortrag kleines Buffet

Harald Rindler

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

AG Diskrete Mathematik Seminar: Andrei Asinowski (TU Wien): "Counting triangulations of regular subdivisions of convex polygons"

org. by Ch. Krattenthaler

<http://dmgtuwien.ac.at/nfn/agdm.html>

Dienstag, 8. März 2016, von 13:15 bis 14:45 Uhr, SR 9, 2.OG, OMP 1

Complex Analysis SE: Helene Bommier: "Products of Toeplitz operators and Sarason's conjecture on weighted Fock spaces"

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

Dienstag, 8. März 2016, von 15:00 bis 17:00 Uhr, SR 8, 2. OG., OMP 1

Geometry and Analysis on Groups: Henry Bradford (Univ. of Cambridge): "Uniform Diameter Bounds in Pro-p Groups"

org. by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/160308.html>

Mittwoch, 9. März 2016 ab 11:30 bis 12:30 Uhr, SE 10, 2. OG., OMP 1

Harmonic Analysis Seminar: Jose Luis Romero (Univ. Wien): "Multi-taper spectral estimation and accumulation phenomena"

Mittwoch, 9. März 2016 ab 13:15 bis 15:00 Uhr, ESI, Boltzmanng. 9/2, 1090 Wien

ESI – Seminar: Rudolf Zeidler (U Göttingen): "Secondary index theory, positive scalar curvature and torsion in the fundamental group"

org. by G. Arzhantseva, T. Schick (Details siehe Anhang)



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Mittwoch, 9. März – Mittwoch, 27. April 2016 von 9:45 -11:15 und 11:30-13:00, SR 1, EG, OMP 1

Spezial VO: Josef Teichmann (ETH-Zürich): "Lecture on Regularity structures"

https://people.math.ethz.ch/~jteichma/index.php?content=teach_regularitystructures2016

Donnerstag, 10. März 2016, 15:15 Uhr bis 17:00 Uhr, 09.142, 9 OG., OMP 1

AG Ergodentheorie : Paul Surer (BOKU Vienna): "Dynamical properties of the tent map."

org. by H. Bruin, R. Zweimüller

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

Donnerstag, 10. März 2016, von 16.00 Uhr bis 18:00 Uhr, Josephinum, SR 8 (Zi. 02.101),

Währinger Str. 25, 1090 Wien,

KGRC Research Seminar: Sy-David Friedman (KGRC): "From well to better, the space of ideals"

org. by Kurt Gödel Research Center

http://www.logic.univie.ac.at/Research_seminar.html