

# VORTRÄGE

15:45 Kaffeejause

**Mittwoch, 09. Oktober 2019 16:15 bis 19:00**, Sky Lounge, 12. OG, OMP 1

**Mathematisches Kolloquium: Michael Kunzinger (Universität Wien): "Black Holes, Singularities, and Triangles - Low regularity Lorentzian geometry in General Relativity"**

Org: R. Donniger, Ch. Krattenthaler

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_Kunzinger.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_Kunzinger.pdf)

**Abstract:**

*In recent years, the study of low regularity spacetimes has received increased attention both from mathematical physicists and from Lorentzian geometers. The first part of this talk provides a brief introduction to the problem of singularities in General Relativity and describes ways of extending the classical singularity theorems of S. Hawking and R. Penrose to spacetime metrics of reduced regularity. After highlighting some of the surprising breakdowns of causality theory that occur by further lowering the regularity (below the class of Lipschitz metrics), we then turn to the theory of Lorentzian length spaces. This is an analogue of the theory of (metric) length spaces that uses triangle comparison methods to give meaning to (sectional) curvature bounds and singularities in great generality (beyond, but compatible with, the setting of differentiable manifolds and spacetime metrics). Finally, we discuss some current directions of research in this area.*

**Im Anschluss: vinum cum pane**

## Berufungsvorträge "Computational Medicine"

**Freitag, 11. Oktober 2019 09:30 bis 10:00**, HS 16, 2. OG, OMP 1

**Didaktischer Vortrag: Bernhard Knapp (International University of Catalonia, Barcelona): "Mapping algorithms for next generation sequencing data"**

**Freitag, 11. Oktober 2019 10:00 bis 10:45**, HS 16, 2. OG, OMP 1

**Wissenschaftlicher Vortrag: Bernhard Knapp (International University of Catalonia, Barcelona): "Computational prediction of T-cell receptor sequences for patient specific (cancer) antigens"**

Org: Fakultät für Mathematik

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Praesentationstermine\\_Computational\\_Medicine.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Praesentationstermine_Computational_Medicine.pdf)

**Montag, 07. Oktober 2019 13:00 bis 13:45**, HS17, 2. OG, OMP 1

**Didaktischer Vortrag im Rahmen der Habilitation: Jitka Polechová (Universität Wien): "The effects of feedback between evolutionary and ecological dynamics"**

Org: Josef Hofbauer

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_did.Vortrag\\_Polechova\\_Jitka.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_did.Vortrag_Polechova_Jitka.pdf)

**Montag, 07. Oktober 2019 13:30 bis 14:15**, HS 2, EG, OMP 1

**Didaktischer Vortrag im Rahmen der Habilitation: Paolo Piovano (Universität Wien): "Introduction to the direct method of the calculus of variations"**

Org: Michael Kunzinger

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_did.Vortrag\\_Piovano.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_did.Vortrag_Piovano.pdf)

**Montag, 07. Oktober 2019 14:00 bis 14:45**, ESI, Boltzmann Lecture Hall, Boltzmanngasse 9/2, 1090 Wien

**Talk of the Thematic Programme Quantum Simulation - from Theory to Application: Thomas Schulte-Herbrüggen (TU Munich): "Control Engineering Taken to the Limits of Quantum Systems Theory - Framework, Recent Results, and Perspectives"**

Org: T. Calarco

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Schulte-Herbrueggen.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Schulte-Herbrueggen.pdf)

**Montag, 07. Oktober 2019 15:30 bis 17:30**, ESI, Schrödinger Lecture Hall, Boltzmanngasse 9/2, 1090 Wien

**MCMP Seminar: László Erdős: "Spectral universality: a journey from heavy nuclei to Riemann zeta function via random matrices"**

Org: R. Donninger and D. Fajman

**Dienstag, 08. Oktober 2019 13:15 bis 14:45**, SR 8, 2. OG, OMP 1

**Representation Theory and Automorphic Forms: Alberto Mínguez (University of Vienna): "On intertwining operators. Introduction to the workgroup."**

Org: H. Grobner, A. Minguez-Espallargas, A. Mellit

**Dienstag, 08. Oktober 2019 13:45 bis 14:30**, TU Wien, Wiedner Hauptstr. 8, Red Area, 7th floor, SR DC 07 A15

**SE Mathematische Physik (Joint TU/UV Theory): M.M. Sheikh-Jabbari (IPM Teheran & ICTP Trieste): "T-witts on the soft hair program"**

Org: S. Fredenhagen, D. Grumiller, C. Zwickel, T. Schimannek

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/JointTheorySeminar\\_Sheikh-Jabbari\\_8Oktober2019.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/JointTheorySeminar_Sheikh-Jabbari_8Oktober2019.pdf)

**Dienstag, 08. Oktober 2019 15:00 bis 17:00**, SR 7, 2. OG., OMP 1

**Geometry and Analysis on Groups Seminar: Sang-hyun Kim (KIAS): "Integrability of moduli and regularity of Denjoy counterexamples "**

Org: G. Arzhantseva, Ch. Cashen

[https://mathematik.univie.ac.at/forschung/seminare/geometry-and-analysis-on-groups-seminar/?no\\_cache=1](https://mathematik.univie.ac.at/forschung/seminare/geometry-and-analysis-on-groups-seminar/?no_cache=1)

**Dienstag, 08. Oktober 2019 15:15 bis 16:45**, TU Wien, Dissertantenraum, Freihaus, Turm A, 8. OG., Wiedner Hauptstr. 8-10, 1040 Wien

**AG Diskrete Mathematik: Bidisha Roy (Harish-Chandra Research Institute, Allahabad, India): "On zero-sum subsequences in some finite abelian  $p$ -groups"**

Org: M. Drmota

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Abstract\\_for\\_univ\\_of\\_wien.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Abstract_for_univ_of_wien.pdf)

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

**Mittwoch, 09. Oktober 2019 11:30 bis 13:00**, SR 11, 2. OG, OMP 1

**SE Harmonic Analysis: Karlheinz Gröchenig (Univ. Wien): "Marcinkiewicz-Zygmund Inequalities, Approximation, and Quadrature Rule "**

Org: M. Ehler, K. Gröchenig

**Mittwoch, 09. Oktober 2019 13:30 bis 14:45**, HS 2, EG, OMP 1

**Didaktischer Vortrag im Rahmen der Habilitation: Paolo Giordano (Wolfgang Pauli Institute): "Can a student invent a new theory?"**

Org: Karlheinz Gröchenig

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_did.Vortrag\\_Giordano\\_Paolo.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_did.Vortrag_Giordano_Paolo.pdf)

**Mittwoch, 09. Oktober 2019 14:00 bis 14:45**, HS 11, 2. OG, OMP 1

**PDE Afternoon: Sjoerd Geevers (University of Vienna): "An equilibrated a posteriori error estimator for arbitrary-order Nédélec elements for magnetostatic problems"**

Org: SFB 65, DK

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=421>

**Mittwoch, 09. Oktober 2019 15:00 bis 15:30**, HS 11, 2. OG, OMP 1

**PDE Afternoon: Gudmund Pammer (TU Wien): "From Optimal Weak Transport to the Schrödinger problem"**

Org: SFB 65, DK

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=422>

**Mittwoch, 09. Oktober 2019 15:30 bis 16:00**, HS 11, 2. OG, OMP 1

**PDE Afternoon: Gianluca Favre (University of Vienna): "Kinetic model with thermalization for a gas with total energy conservation"**

Org: SFB 65, DK

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=423>

**Donnerstag, 10. Oktober 2019 16:00 bis 18:00**, KGRC, Augasse 2-6, Ebene 5

**SE KGRC: Christina Brech (Universidade de Sao Paulo, Brazil): "Isometries of combinatorial Banach spaces "**

Org: KGRC

[http://www.logic.univie.ac.at/2019/Talk\\_10-10\\_a.html](http://www.logic.univie.ac.at/2019/Talk_10-10_a.html)

**Donnerstag, 10. Oktober 2019 16:30 bis 18:00**, HS 11, 2. OG, OMP 1

**SE VSMFP: Mathias Beiglböck (Uni Wien): "An introduction to weak adapted topologies "**

<https://fam.tuwien.ac.at/events/vs-mfp/>

**Freitag, 11. Oktober 2019 10:00 bis 10:45**, HS 9, 1. OG, OMP 1

**Didaktischer Vortrag im Rahmen der Habilitation: Shantanu Dave (Universität Wien): "The spectral theorem for normal operators on a Hilbert space"**

Org: Bernhard Lamel

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_did.Vortrag\\_Dave\\_Shantanu.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_did.Vortrag_Dave_Shantanu.pdf)

**Freitag, 11. Oktober 2019 10:30 bis 11:15**, HS 15, 2. OG, OMP 1

**Habilitationsvortrag: Anton Mellit (Universität Wien): "On  $q$ ,  $t$ -symmetric functions"**

Org: Christian Krattenthaler

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2018\\_19/Einladung\\_Habilvortrag\\_Mellit\\_Anton.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_Habilvortrag_Mellit_Anton.pdf)