

VORTRÄGE

Mittwoch, 12. Jänner 2022 16:15 bis 17:00

ZOOM MEETING

Adventures in the land of Homeo+(R)

Yash Lodha (Universität Wien)

Mathematisches Kolloquium

Org.: R. I. Boţ

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/MathKoll_Einladung_Lodha.pdf

Abstract:

The groups of homeomorphisms of the real line and the circle exhibit a remarkable subgroup structure, and consequently, a plethora of topological, algebraic and combinatorial phenomena.

In this talk I shall provide some historical motivation to study such groups, and describe some concrete examples that illustrate the theory. If time permits, I will present some recent advances in the area.

Schedule of Presentations for VSM PhD Positions:

ZOOM MEETINGS

Dienstag, 11. Jänner 2022

2.00 pm: **Karimatou Djenabou - P-partition generating function and the quasisymmetric basis ϕ**

2.40 pm: **Thomas Lang - Greedy Learning of Neural Networks with Application to Differential Equations**

3.30 pm: **Alexander Stadler - A determination of the class number of quadratic fields modulo 4**

4.10 pm: **Sampada Kolhatkar - Bivariate Chromatic Polynomials of Mixed Graphs**

Donnerstag, 13. Jänner 2022

1.00 pm: **Carol Badre - All closed orientable 3-manifolds are central in trisections of 5-manifolds**

1.40 pm: **Hailun Lu - A Strong Law of Large Numbers for Random Set Partial Sum Processes indexed by Sets**

2.30 pm: **Noah Giessing - Creative ways of counting from 0 to n**

3.10 pm: **Frieder Simon - Dynamical properties of predictive coding networks**

Org.: Vienna School of Mathematics

For the above talks, please request the Zoom link by contacting office@vsmath.at.

Montag, 10. Jänner 2022 13:15 bis 14:45

ZOOM MEETING

Differentially Private Algorithms for Graphs Under Continual Observation

Wolfgang Ost (U Vienna)

VGSCO Seminar

Org.: Vienna Graduate School on Computational Optimization

<https://vgSCO.univie.ac.at/activities/colloquia/>

Montag, 10. Jänner 2022 15:15 bis Freitag, 14. Jänner 2022 16:00

ZOOM MEETING & ERWIN SCHRÖDINGER INSTITUTE - BOLTZMANN LECTURE HALL

Optimal Point Configurations on Manifolds

ESI Winter school

Org.: C. Bachoc (U Bordeaux), H. Cohn (Microsoft, Redmond), P. Grabner (TU Graz), D. Hardin (Vanderbilt U, Nashville), E. Saff (Vanderbilt U, Nashville), A. Schürmann (UoR), R. Womersley (UNSW, Sydney)

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/schedule-GBC22.pdf

<https://www.esi.ac.at/events/e427/>

Montag, 10. Jänner 2022 15:30 bis 16:30

ZOOM MEETING

Nonconvex Min-Max Optimization

Meisam Razaviyayn (University of Southern California)

The One World Optimization Seminar

Org.: R. I. Boţ (University of Vienna), S. Sabach (Technion - Israel Institute of Technology Haifa), M. Staudigl (Maastricht University)

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/abstract_Razaviyayn_OWOS.pdf

<https://owos.univie.ac.at/>

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ZOOM-MEETING ID: 431 655 310, PASSCODE: 0CNL5D

On the exceptional case of Sharifi's conjectures

Sheng-Chi Shih (U Vienna)

SE Representation Theory and Automorphic Forms

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

Dienstag, 11. Jänner 2022 14:00 bis 15:00

ZOOM MEETING

Gravitational waves in Einstein-Cartan theory

Emmanuele Battista (U Vienna)

Joint Theory Seminar

Org.: TU Wien und Mathematische Physik

<https://www.univie.ac.at/jointtheoryseminar/>

Dienstag, 11. Jänner 2022 15:00 bis 17:00

ZOOM

TBA

David Kerr (Münster)

Geometry and Analysis on Groups Research Seminar

Org.: G. Arzhantseva, Ch. Cashen, Y. Lodha

<https://univie.zoom.us/j/97810758446>

<https://mathematik.univie.ac.at/forschung/seminare/geometry-and-analysis-on-groups-seminar/>

Dienstag, 11. Jänner 2022 15:00 bis 15:30

ZOOM MEETING

A short introduction to countable support iterations and proper forcing

L. Koschat (U Wien)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

Dienstag, 11. Jänner 2022 15:45 bis 16:15

ZOOM MEETING

Tukey order on hyperspaces of compact subspaces and the Menger covering property

V. Haberl (U Wien & TU Graz)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

Dienstag, 11. Jänner 2022 16:00 bis 17:00

ZOOM MEETING

Young Tableaux with Periodic Walls: Counting with the Density Method

Michael Wallner (TU Wien)

AG Diskrete Mathematik

Org.: M. Drmota

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

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ZOOM MEETING

Forcing Indestructibility of MAD families

F. Kaak (U Wien)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

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ZOOM MEETING

Spectra of maximal almost orthogonal families of projections in the Calkin algebra

M. Godziszewski (U Warsaw, PL & U Łódź, PL)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

Dienstag, 11. Jänner 2022 18:00 bis 18:30

ZOOM MEETING

Generalization of proofs of universal sentences

L. Sauras (TU Wien)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

Mittwoch, 12. Jänner 2022 10:45 bis 12:15

ZOOM MEETING

Error bounds for numerical integration in Hermite spaces of analytic functions

Clemens Karner (U Vienna)

Vortrag

Org.: K. Gröchenig, J. L. Romero, M. Ehler

https://mathematik.univie.ac.at/en/eventsnews/full-news-display/news/1175411e269e48ba889f405a685f87b4/?no_cache=1&tx_news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=41e6689e2a8d652c5e9ddd60cdc7a381

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ZOOM MEETING

Universal optimality in Euclidean space

Andrew Xu (U Vienna)

Vortrag

Org.: K. Gröchenig, J.L. Romero, M. Ehler

https://mathematik.univie.ac.at/en/eventsnews/full-news-display/news/universal-optimality-in-euclidean-space/?no_cache=1&tx_news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=e2c4fcad850b45729e528d89b108eaf0

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ZOOM MEETING

Weak law of large numbers

Alexander Glazman (U Wien)

Didaktischer Vortrag im Rahmen der Habilitation

Org.: Christian Krattenthaler

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/did.Vortrag_Einladung_Glazman.pdf

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ZOOM MEETING

"Simulations of Bose-Einstein condensates at finite temperature including time-of-flight expansion in three spatial dimensions

Jan-Frederik Mennemann (U Vienna)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/NEW_pde_afternoon_2022-01-12.pdf

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=625>

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ZOOM MEETING

Measurable selection and (bicausal) optimal transport

Daniel Toneian (U Vienna)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/NEW_pde_afternoon_2022-01-12.pdf

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=626>

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ZOOM MEETING

Variational methods in material sciences: the data-driven approach

Andrea Chiesa (U Vienna)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/NEW_pde_afternoon_2022-01-12.pdf

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=627>

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ZOOM MEETING

Worlds without Martin's Axiom

V. Torres-Pérez (TU Wien)

KGRC SE

Org.: KGRC

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/KGRC_Seminars_WLD2022.pdf

Donnerstag, 13. Jänner 2022 14:00 bis 14:45

ZOOM MEETING

Random fields, the Wiener Chaos Decomposition and a Stationary Diffusion

Levi Haunschmid-Sibitz (TU Wien)

PhD Kolloquium

Org.: Vienna School of Mathematics

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2021_22/poster-2022-01-13.pdf

<https://www.vsmath.at/academics/phd-colloquia/>

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ZOOM MEETING

Operational reconstruction of quantum particle statistics

Borivoje Dakic (U Wien)

Vortrag

Org.: Gravitationsphysik