

## VORTRÄGE

15:45 Kaffeejause

**Mittwoch, 18. April 2018 16:15 bis 17:00**, Sky Lounge, 12. OG, OMP 1

**Mathematisches Kolloquium/WPI-Kolloquium: Martin Burger (Universität Münster): "Propagation of gradient flow structures from microscopic to macroscopic models"**

Org: U. Stefanelli, C. Krattenthaler

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/20180418\\_MartinBurger.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/20180418_MartinBurger.pdf)

In this talk we will discuss the propagation of gradient flow structures from microscopic models in statistical mechanics such as overdamped particle dynamics or interacting particle systems on lattices to macroscopic partial differential equations. The key insight is that microscopic models can be formulated as linear Markov chains in high-dimensional spaces, e.g. via Liouville equations, for which recent work by Maas, Mielke and others has provided a rather complete picture. The propagation to macroscopic models is then carried out - at least formally - by constructing a metric structure on an associated infinite hierarchy of equations, resembling the BBGKY hierarchy in kinetic theory, and studying mean-field or other limits in this setup.

**Im Anschluß: Vinum cum pane**

**Montag, 16. April 2018 09:15 bis 11:15**, PC SR 03, -1 UG., OMP 1

**Minicourse: Matteo Tommasini (Univ. Wien): "Introduction to HTML"**

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=5&id=5>

**Montag, 16. April 2018 11:00 bis 12:00**, ESI, Boltzmann Lecture Hall, Boltzmanngasse 9/2, 1090 Wien

**ESI SE: Roderich Moessner (MPI PKS, Dresden): "Thermodynamics and order beyond equilibrium - from eigenstate thermalisation to time crystals"**

Org: P. Calabrese, F. Essler, G. Mussardo, J. Schmiedmayer, G. Sierra, F. Verstraete

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/Moessner.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Moessner.pdf)

**Dienstag, 17. April 2018 13:45 bis 14:45**, TU Wien, Freihaus, SR 136, 10. OG., Wiedner Hauptstr. 8-10, 1040 Wien

**SE Mathematische Physik: Linus Wulff (Masaryk Univ. Brno): "Generalized supergravity and non-abelian T-duality anomaly"**

Org: S. Fredenhagen, D. Grunmiller

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/Seminareinladung\\_Mathematik\\_Wulff\\_17April2018.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Seminareinladung_Mathematik_Wulff_17April2018.pdf)

**Dienstag, 17. April 2018 15:00 bis 17:00**, BZ 9, 9. OG, OMP1

**SE AG Biomathematik: Jozsef Garay (Budapest): "Evolutionary games under time constraints"**

Org: J. Hermisson, R. Bürger

<http://homepage.univie.ac.at/Reinhard.Buerger/AGBio.html>

**Dienstag, 17. April 2018 15:00 bis 17:00**, SR 10, 2. OG., OMP 1

**Geometry and Analysis on Groups Research Seminar: Yuri Bahturin (Memorial Univ. of Newfoundland): "Growth Functions in groups and algebras"**

Org: G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/180417.html>

**Dienstag, 17. April 2018 15:15 bis 16:45**, Dissertantenraum, Freihaus, Turm A, 8. OG., Wiedner Hauptstr. 8-10, 1040 Wien

**AG Diskrete Mathematik: Cesar Ceballos (Univ. Wien): "On s-Catalan combinatorics"**

Org: Ch. Krattenthaler

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

**Dienstag, 17. April 2018 15:00 bis 15:45**, HS 11, 2. OG, OMP 1

**PDE-Afternoon: Luca Scarpa (Univ. College London, UK): "Well-posedness of semilinear SPDEs with singular drift: a variational approach"**

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=1&id=102>

**Dienstag, 17. April 2018 16:00 bis 16:30, HS 11, 2. OG, OMP 1**

**PDE-Afternoon: Mathieu Mezache (INRIA and Lab. J-L Lions UPMC, France): "An oscillatory kinetic model for the protein aggregation process"**

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=1&id=103>

**Dienstag, 17. April 2018 16:30 bis 17:00, HS 11, 2. OG, OMP 1**

**PDE-Afternoon: Carl-Martin Pfeiler (TU Wien): "Linear second-order IMEX integration for the nonlinear Landau-Lifshitz-Gilbert equation"**

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=1&id=104>

**Dienstag, 17. April 2018 17:15 bis 18:15, HS 2, EG, OMP 1**

**Fachdidaktisches Kolloquium Arbeitsbereich Fachdidaktik/Schulmathematik: Maria Fast (KPH Wien-Krems, Strebersdorf): "Wie Kinder addieren und subtrahieren"**

Org: H. Humenberger

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/Did-Kolloquium18.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Did-Kolloquium18.pdf)

**Mittwoch, 18. April 2018 11:00 bis 12:00, SR 10, 2. OG., OMP 1**

**NuHAG SE: Sarah Koppensteiner (Univ. Wien): "The Complement Property for Discrete Gabor Measurements"**

Org: KH. Gröchenig

[https://www.univie.ac.at/nuhag-php/program/talks\\_details.php?id=3448](https://www.univie.ac.at/nuhag-php/program/talks_details.php?id=3448)

**Mittwoch, 18. April 2018 13:30 bis 14:15, HS 16, 2. OG, OMP 1**

**PhD Colloquium: Paola Lopez (Univ. Wien): "An Adelic Approach to Number Theory"**

Org: Vienna Doctoral School of Mathematics

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/poster-2018-04-18.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/poster-2018-04-18.pdf)

**Mittwoch, 18. April 2018 13:45 bis Freitag, 20. April 2018 17:45, Sky Lounge, 12. OG, OMP 1**

**Workshop: Christian Schmeiser's 60th birthday: "Applied PDEs and kinetic equations: from physics to life sciences and beyond"**

Org: WPI, Fak. f. Mathematik, SFB, DK, INRIA, M. Doumic, J. Haskovec (KAUST), M.-Th. Wolfram (Warwick, RICAM Linz), K. Fellner (KFU Graz), L. Neumann (U. Innsbruck)

<https://sites.google.com/view/schmeiser-60-workshop/>

**Donnerstag, 19. April 2018 13:30 bis 15:00, SR 8, 2. OG, OMP 1**

**Reinhard Schäfer (Univ. de Strasbourg): "Asymptotic expansions with respect to an analytic germ"**

Org: A. Rainer

<http://www.mat.univie.ac.at/~armin/seminar.html>

**Donnerstag, 19. April 2018 14:00 bis 15:00, AG Gravitation, Währingerstr. 17, Raum 218, 2. OG**

**Literaturseminar: Léo Bigorgne (Univ. Orsay): "Asymptotics properties of the small data solutions of the Vlasov-Maxwell system in high dimensions"**

Org: P. Chrusciel, D. Fajman

[https://mathematik.univie.ac.at/fileadmin/user\\_upload/f\\_mathematik/Vortraege/2017\\_18/SeminareinladungGRAVI\\_Bigorgne\\_19April2018.pdf](https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/SeminareinladungGRAVI_Bigorgne_19April2018.pdf)

**Donnerstag, 19. April 2018 15:15 bis 17:00, BZ 9, 9. OG, OMP 1**

**AG Ergodentheorie: Henk Bruin (Univ. Wien): "On the shape of the pressure function near infinite measure systems"**

Org: H. Bruin, R. Zweimüller

[http://mat.univie.ac.at/~zweimueller/AG\\_ETHY.html](http://mat.univie.ac.at/~zweimueller/AG_ETHY.html)

**Donnerstag, 19. April 2018 16:00 bis 18:00, KGRC, lecture room, Währinger Str. 25, 1090 Wien**

**KGRC Seminar: Diana Carolina Montoya Amaya (KGRC): "On some ideals associated with independent families"**

Org: KGRC

[http://www.logic.univie.ac.at/2018/Talk\\_04-19\\_a.html](http://www.logic.univie.ac.at/2018/Talk_04-19_a.html)