**VORTRÄGE**

15:00 Uhr: Kaffeejause

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

**Mathematisches Kolloquium: Mikaela Iacobelli (Durham University): "Recent results on singular limits for Vlasov-Poisson"**

Org: Michael Eichmair, Christian Krattenthaler

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_Doppelkolloquium.pdf>

*Abstract:*

*The Vlasov-Poisson system is a kinetic equation that models collisionless plasma. A plasma has a characteristic scale called the Debye length, which is typically much shorter than the scale of observation. In this case the plasma is called ‘quasineutral’. This motivates studying the limit in which the ratio between the Debye length and the observation scale tends to zero. Under this scaling, the formal limit of the Vlasov-Poisson system is the Kinetic Isothermal Euler system. The Vlasov-Poisson system itself can formally be derived as the limit of a system of ODEs describing the dynamics of a system of N interacting particles, as the number of particles approaches infinity. The rigorous justification of this mean field limit remains a fundamental open problem.*

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

**Mathematisches Kolloquium: Alessio Figalli (ETH Zürich): "Regularity of interfaces in phase transitions via obstacle problems"**

Org: Michael Eichmair, Christian Krattenthaler

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Einladung_Doppelkolloquium.pdf>

*Abstract:*

*The so-called Stefan problem describes the temperature distribution in a homogeneous medium undergoing a phase change, for example ice melting to water. An important goal is to describe the structure of the interface separating the two phases. In its stationary version, the Stefan problem can be reduced to the classical obstacle problem, which consists in finding the equilibrium position of an elastic membrane whose boundary is held fixed and which is constrained to lie above a given obstacle.The aim of this talk is to give a general overview of the classical theory of the obstacle problem, and then discuss recent developments on the structure of interfaces, both in the static and the parabolic settings.*

**Im Anschluss: vinum cum pane**

**Montag, 13. Mai 2019 09:30 bis 12:00,** ESI, Boltzmann Lecture Hall, Boltzmanngasse 9/2,1090 Wien

**Special Lecture ESI Programm Optimal Transport: Alessio Figalli (ETH Zürich): "On the regularity theory of optimal transprot maps (1) + (2) "**

Org: Mathias Beiglböck (U Vienna), Jan Maas (IST Austria)

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/MSF_Figalli.pdf>

**Montag, 13. Mai 2019 14:00 bis Freitag, 17. Mai 2019 12:00,** ESI, Boltzmann Lecture Hall, Boltzmanngasse 9/2,1090 Wien

**Programme on “Optimal Transport”: "Workshop 1 From Geometry to Numerics"**

Org: M. Beiglböck (U Vienna), A. Figalli (ETH Zürich), J. Maas (IST Austria), R. McCann (U Toronto), J. Solomon (MIT, Boston)

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/MSF_WS1-1.pdf>

**Montag, 13. Mai 2019 15:30 bis 17:00,** ESI, Schrödinger Lecture Hall, Boltzmanngasse 9/2, 1090 Wien

**MCMP Seminar: David Fajman (Universität Wien): "The Einstein flow on surfaces"**

Org: R. Donninger und D. M. Fajman

**Dienstag, 14. Mai 2019 13:15 bis 14:45,** BZ 9, 9. OG, OMP1

**Number Theory Seminar: Erez Lapid, Weizmann Institute: "Weyl law with an error term for the cuspidal spectrum"**

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

**Dienstag, 14. Mai 2019 13:45 bis 14:30,** Fakultät für Physik, Erwin Schrödinger-Hörsaal, Boltzmanng. 5, 5. St., 1090 Wien

**SE Mathematische Physik: Sergio Hörtner (Universidad Autónoma de Madrid): "Gravitational duality near cosmological space‐times"**

Org: S. Fredenhagen, D. Grumiller, D. Erkinger, R. Wutte

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Seminareinladung_Mathematik_Hoertner_14Mai2019.pdf>

**Dienstag, 14. Mai 2019 15:00 bis 17:00,** SR 12, 2. OG, OMP 1

**Geometry and Analysis on Groups Seminar: Romain Tessera (Université Paris-Sud): "Poincaré profile of connected Lie groups "**

Org: G. Arzhantseva, Ch. Cashen

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

**Dienstag, 14. Mai 2019 15:15 bis 16:45,** TU Wien, Dissertantenraum, Freihaus, Turm A, 8. OG., Wiedner Hauptstr. 8-10, 1040 Wien

**AG Diskrete Mathematik: Hsien-Kuei Hwang (Academica Sinica, Taipei, Taiwan): "Identities and periodic oscillations of divide-and-conquer recurrences splitting at half"**

Org: Ch. Krattenthaler

**Dienstag, 14. Mai 2019 16:15 bis 17:00,** Fakultät für Physik, Erwin Schrödinger-Hörsaal, Boltzmanng. 5, 5. St., 1090 Wien

**SE Teilchenphysik : Jeff Forshaw (Manchester): "Probabilities and Signalling in QFT"**

Org: A. Hoang, H. Neufeld, S. Plätzer

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/SeminareinladungTeilchenphysik_Forshaw_14Mai2019.pdf>

**Mittwoch, 15. Mai 2019 14:15 bis 14:45,** HS 11, 2. OG, OMP 1

**PDE Afternoon: Paul Stocker (Universität Wien): "Tent pitching and a Trefftz-DG method for the acoustic wave equation"**

Org: SFB 65, DK

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=399>

**Mittwoch, 15. Mai 2019 14:45 bis 15:15,** HS 11, 2. OG, OMP 1

**PDE Afternoon: Peter Allmer (Universität Wien): "A spectral operator splitting method for the Maxwell-Klein-Gordon equation"**

Org: SFB 65, DK

<https://www.univie.ac.at/sfb65/#!/public/events/details/?type=1&id=417>

**Donnerstag, 16. Mai 2019 10:00 bis 12:00,** BZ 2, 2. OG., OMP 1

**Geometry and Analysis on Groups Seminar: Sang-hyun Kim (Korea Institute for Advanced Study (KIAS)): "Non-freeness of certain two-parabolic groups "**

Org: G. Arzhantseva, Ch. Cashen

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

**Donnerstag, 16. Mai 2019 13:30 bis 14:15,** AG Gravitation, Währingerstr. 17, Raum 218, 2. OG

**Joint relativity‐mathematical physics seminar: Stefan Fredenhagen (Univ. Wien): "Obstructions to interacting higher‐spin gauge theories in three dimensions"**

Org: P. T. Chruściel, D. Fajman

<https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2018_19/Seminareinladung_GRAVI_Fredenhagen_Mai2019.pdf>

**Donnerstag, 16. Mai 2019 15:00 bis 16:30,** SR 10, 2. OG., OMP 1

**NuHAG Seminar: Luis Alberto Escudero (ARI-OEAW): "On interpolation in Hilbert spaces of analytic functions"**

Org: KH. Gröchenig