

VORTRÄGE

Mittwoch, 15. Juni 2022 15:00 bis Mittwoch, 22. Juni 2022 15:45

SKY LOUNGE, 12. OG, OMP 1

The European Mathematical Society. Supporting the mathematical community in Europe

Volker Mehrmann (TU Berlin, European Mathematical Society)

Vortrag 1 - Mathematisches Kolloquium

Abstract:

The European Mathematical Society (EMS) will be presented and how it supports the mathematical community. This includes the organizational and financial support for scientific events, the lobbying for mathematics in Brussels, the EMS Publishing House and its Subscribe-to-Open strategy, the support for mathematics in developing countries.

Mittwoch, 15. Juni 2022 16:15 bis Mittwoch, 22. Juni 2022 18:00

SKY LOUNGE, 12. OG, OMP 1

Energy based modeling, simulation and optimization of real world problem. A paradigm change

Volker Mehrmann (TU Berlin, European Mathematical Society)

Vortrag 2 - Mathematisches Kolloquium

Abstract:

Most real world dynamical systems consist of subsystems from different physical domains, modeled by partial differential equations, ordinary differential equations, algebraic equations, combined with input and output connections. To deal with such complex systems, in recent years energy based modeling using the class of dissipative port-Hamiltonian (pH) systems has emerged as a very efficient new methodology. The main reasons are that the network based interconnection of pH systems is again pH, Galerkin projection in PDE discretization and model reduction preserve the pH structure and the physical properties are encoded in the geometric properties of the flow as well as the algebraic properties of the equations. Furthermore, dissipative pH system form a very robust representation under structured perturbations and directly indicate Lyapunov functions for stability analysis. We discuss dissipative pH systems and describe, how many classical models can be formulated in this class. We illustrate some of the nice properties, including local canonical forms, the formulation of an associated Dirac structure, and the local invariance under space-time dependent diffeomorphisms. The results are illustrated with some real world examples.

Org.: R. I. Boğ

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/Einladung_Vortraege_Mehrmann.pdf

<https://mathematik.univie.ac.at/eventsnews/mathematisches-kolloquium/>

Dienstag, 21. Juni 2022 13:15 bis 14:45

SR 10, 2. OG., OMP 1

The mixing conjecture of Michel–Venkatesh

Farrell Brumley (Paris 13)

Seminar "Representation Theory and Automorphic Forms"

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

Dienstag, 21. Juni 2022 14:00 bis 15:00

ZOOM

Twisted eleven-dimensional supergravity and exceptional Lie algebras

Ingmar Saberi (LMU)

Joint Theory Seminar

Org.: TU Wien und Mathematische Physik (Fakultät für Physik)

Dienstag, 21. Juni 2022 15:00 bis 16:30

SR 10, 1. STOCK, KOLING. 14-16, 1090 WIEN SR 10, 1. STOCK, KOLING. 14-16, 1090 WIEN

The Ramsey property, MAD families, and their higher dimensional relatives

D. Schrittesser (U of Toronto, CA)

KGRC SE

Org.: KGRC

Dienstag, 21. Juni 2022 15:15 bis 16:00

BZ 9, 9. OG, OMP1

Prime number theorem in dynamics

Adam Kanigowski (University of Maryland)

Ergodic Theory Seminar

Org.: D. Ravotti

Dienstag, 21. Juni 2022 16:15 bis 17:15

ERWIN-SCHRÖDINGER-HÖRSAAL, FAKULTÄT FÜR PHYSIK, BOLTZMANNGASSE 5, 5. STOCK

EFT effects in VBS: lessons from UV complete models

Dieter Zeppenfeld (KIT)

Vortrag

Org.: Teilchenphysik

Dienstag, 21. Juni 2022 17:00 bis 19:00

ESI, SCHRÖDINGER LECTURE HALL, BOLTZMANNGASSE 9/2, 1090 WIEN

Arthur E. Haas: Ein verborgener Pionier der modernen Physik

Vortrag mit Buchpräsentation

Org.: ESI, Wiener Kreis Gesellschaft und LIT Verlag

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/Programm_Buchpra_sentation_Haas.pdf

Mittwoch, 22. Juni 2022 14:00 bis 14:45

TU WIEN (GUSSHAUSSTRASSE 25, E14 REITHOFFER HS, 2. STOCK) AND ZO

Towards discontinuous Galerkin methods for moist air including precipitation

Henry Maximilian von Wahl (U Vienna)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/pde_afternoon_2022-06-22.pdf

<https://sfb65.univie.ac.at/#!/public/events/details/?type=1&id=678>

Mittwoch, 22. Juni 2022 15:00 bis 15:30

TU WIEN (GUSSHAUSSTRASSE 25, E14 REITHOFFER HS, 2. STOCK) AND ZO

Efficient realization of a residual-type error estimator for the fractional Laplacian

Björn Bahr (TU Wien)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/pde_afternoon_2022-06-22.pdf

<https://sfb65.univie.ac.at/#!/public/events/details/?type=1&id=676>

Mittwoch, 22. Juni 2022 15:30 bis 16:00

TU WIEN (GUSSHAUSSTRASSE 25, E14 REITHOFFER HS, 2. STOCK) AND ZO

A rigorous limit from micro to macro

Michael Fischer (U Vienna)

PDE Afternoon

Org.: SFB 65, DK

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/pde_afternoon_2022-06-22.pdf

<https://sfb65.univie.ac.at/#!/public/events/details/?type=1&id=680>

Mittwoch, 22. Juni 2022 16:00 bis 17:00

SEMINARRAUM A, GRAVITATIONSPHYSIK, WÄHRINGER STRASSE 17, 2. STOCK

Double Null Data and the Characteristic Problem in General Relativity

Gabriel Sánchez-Pérez (University of Salamanca)

Vortrag

Org.: Gravitationsphysik

Donnerstag, 23. Juni 2022 13:15 bis 14:00

HS 15, 2. OG, OMP 1 AND ZOOM

Biomembranes, curves, and varifolds

Katharina Brazda (U Wien)

Vienna School of Mathematics

Org.: Vienna School of Mathematics

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Events_News/Vortraege_Events/2021_22/poster-2022-06-23.pdf

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

Donnerstag, 23. Juni 2022 14:00 bis 16:00

BZ 2, 2. OG., OMP 1

Modern Ornstein-Zernike theory: applications, limits and open problems

Yacine Aoun (University of Geneva)

(Not So) Informal Probability Seminar

Org.: A. Glazman

https://mathematik.univie.ac.at/forschung/stochastik-und-finanzmathematik/not-so-informal-probability-seminar/?no_cache=1

Donnerstag, 23. Juni 2022 14:30 bis 17:00

ZOOM MEETING

Public presentations of thesis projects

Org.: A. Cap

Donnerstag, 23. Juni 2022 15:00 bis 15:45

SEMINAR ROOM DB GELB 10, TU WIEN, 1040, WIEDNER HAUPTSTR. 8, FREIHAUS, YELLOW AREA, 10TH FLOOR

Dynamic mean-variance problem: recovering time-consistency

Çağın Ararat (Bilkent University, Ankara, Turkey)

Vienna Seminar in Mathematical Finance and Probability

Donnerstag, 23. Juni 2022 15:15 bis 16:00

SR 09, 2. OG, OMP 1

Orbits of N-expansions with a finite set of digits

Cor Kraaikamp (Delft University of technology)

Seminar Ergodentheorie

Org.: H. Bruin

Donnerstag, 23. Juni 2022 15:45 bis 16:45

SEMINAR ROOM DB GELB 10, TU WIEN, 1040, WIEDNER HAUPTSTR. 8, FREIHAUS, YELLOW AREA, 10TH FLOOR

The Minimum Variance Squared Distance Risk Functional

Zinoviy Landsman (University of Haifa, Israel)

Vienna Seminar in Mathematical Finance and Probability