

Schedule

Functional Analysis Retreat

03 – 05 March 2025



CVJM-Bildungsstätte, Bundeshöhe 7, 42285 Wuppertal

Monday, 03 March

9:30 Arrival, Coffee & Tea

Morning Session

Chair: Merlin Schmitz

9:45-10:30 **Christian Wyss:**
The Factorization Approach to LQ Optimal Control

10:30-11:20 Coffee & Tea while watching the safety instructions

11:25-12:10 **Anthony Hastir:**
 H^∞ -Control for Discrete-Time Systems

12:15 Lunch

14:15 Coffee, Tea & Cake

14:45 Foto Session

Afternoon Session

Chair: Bouchra Elghazi

15:00-15:45 **Merlin Schmitz:**
Boundary Nodes

15:45-16:30 **Hannes Gernandt:**
Boundary Triplets for Implicit Port-Hamiltonian Systems

16:30-17:15 **Mehmet Erbay:**
Something with DAEs

19:00 BBQ

20:30-21:00 New@FAN

21:00-22:00 Lehrplanung

Tuesday, 04 March

8:00 Breakfast

Morning Session

Chair: Jonathan Mui

9:00-9:45 **Julian Hölz:**
Entropy Based Lower Dimension Bounds for the Dynamic Mode De-
composition

9:45-10:30 **Jochen Glück:**
Fun with Dini's Theorem

10:30-11:15 Coffee & Tea

11:15-12:00 **Phillip Kroker:**
Positive Linear Systems

12:15 Lunch

13:30 Excursion

15:45 Coffee, Tea & Cake

Afternoon Session

Chair: Kaja Krhac

16:15-17:00 **Marco Roschowski:**
An Introduction to DiPerna-Lions Theory

17:00-17:45 **Daniel Happ:**
Invariance of Closed Sets under the Flow of an ODE in Finite Dimen-
sions

18:00 Supper

20:00-22:00 Theoretical Consideration of the N-Body Problem Practically Sub-
stantiated

Wednesday, 05 March

8:00 Breakfast
9:00-9:15 Checkout!

Morning Session

Chair: Mehmet Erbay

9:15-10:00 **Kaja Krhac:**
Towards Ports for Quantum Theory

10:00-10:30 Coffee & Tea

10:30-11:15 **Bouchra Elghazi:**
Well-Posedness of Second-Order Port-Hamiltonian Systems

11:15-12:00 **Jens Wintermayr:**
The Kaprekar Routine

12:15 Lunch

14:30 Coffee, Tea & Cake

Afternoon Session

Chair: Julian Hölz

15:00-15:45 **Jonathan Mui:**
On Saddles and Mountains

16:00-17:00 **Hans Zwart (U Twente):**
An Introductory Talk on Infinite Dimensional Port-Hamiltonian Systems

17:00-18:00 Final Discussion
