



# Program

## Functional Analysis Retreat Wuppertal

### February 26th to 28th, 2024

**Location:** CVJM-Bildungsstätte, Bundeshöhe 7, 42285 Wuppertal

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#### Monday, February 26th

**9:30** Arrival, Coffee & Tea

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| Morning session    | Chair: Lukas Vorberg                                                                              |
| <b>10:00-10:50</b> | <b>Anthony Hastir:</b> Linear-Quadratic optimal control for boundary controlled networks of waves |
| <b>10:55-11:45</b> | <b>Najmeh Ghaderi:</b> Observer design for wave equations with the nonlinear boundary condition   |

**12:15** Lunch

**14:10-14:40** Coffee & Tea & Cake

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| Afternoon session  | Chair: Bouchra Elghazi                                           |
| <b>14:40-15:30</b> | <b>Jochen Glück:</b> Positive Systems                            |
| <b>15:35-16:25</b> | <b>Jonathan Mui:</b> A brief look at the Hardy-Davies inequality |
| <b>16:30-17:20</b> | <b>Merlin Schmitz:</b> Road to Strichartz                        |
| <b>17:25-17:55</b> | <b>Annika Meyer:</b> New@FAN                                     |

**18:00** Dinner

**20:00-22:00** Theoretical consideration of the  $n$ -body problem practically substantiated

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#### Tuesday, February 27th

**8:00** Breakfast

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| Morning session    | Chair: Mehmet Erbay                                                            |
| <b>9:00-09:50</b>  | <b>Henrik Kreidler:</b> Dimension                                              |
| <b>09:50-10:15</b> | Coffee & Tea                                                                   |
| <b>10:15-11:05</b> | <b>Patrick Hermle:</b> Why groupoids are sometimes useful                      |
| <b>11:10-12:00</b> | <b>Julian Hölz:</b> The Extended Dynamic Mode Decomposition and Ergodic Theory |

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| <b>12:15</b>       | Lunch               |
| <b>14:15-14:45</b> | Coffee & Tea & Cake |
| <b>14:45</b>       | Group photo         |

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| Afternoon session  | Chair: Merlin Schmitz                                                            |
| <b>15:00-15:50</b> | <b>Kaja Krhac:</b> Port-Hamiltonian systems with energy ports                    |
| <b>15:55-16:45</b> | <b>Bouchra Elghazi:</b> Well-posedness for port-Hamiltonian systems              |
| <b>16:50-17:40</b> | <b>Christian Wyss:</b> Stability radius for port-Hamiltonian systems: an example |

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| <b>18:00</b>       | Dinner                                 |
| <b>20:00-20:30</b> | How to add publications to our website |
| <b>20:30-22:00</b> | Teambuilding                           |

## Wednesday, February 28th

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| <b>8:00</b>      | Breakfast        |
| <b>9:00-9:10</b> | <b>Checkout!</b> |

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| Morning session    | Chair: Kaja Krhac                                   |
| <b>9:10-10:00</b>  | <b>Hannes Gernandt:</b> Port-Hamiltonian DAEs       |
| <b>10:00-10:25</b> | Coffee & Tea                                        |
| <b>10:25-11:15</b> | <b>Mehmet Erbay:</b> Integrated semigroups and DAEs |
| <b>11:20-12:10</b> | <b>Everyone:</b> New@FAN                            |

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|--------------------|---------------------|
| <b>12:15</b>       | Lunch               |
| <b>14:15-14:45</b> | Coffee & Tea & Cake |

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| Afternoon session  | Chair: Julian Hölz                                       |
| <b>14:45-15:35</b> | <b>Jens Wintermayr:</b> Introduction to Floquet Theory   |
| <b>15:40-16:30</b> | <b>Lukas Vorberg:</b> Pseudospectra of Schur Complements |
| <b>16:30-18:00</b> | Discussion and continuation New@FAN                      |