

Program Overview

Sunday, 22.9., from 16:00	arrival
Sunday, 22.9., 18:30	dinner in the hotel
Monday, 23.9., 9:00-17:30	workshop program in the seminar room of the hotel, lunch provided
Monday, 23.9., 18:30	dinner in the hotel
Tuesday, 24.9., 9:00-17:30	workshop program in the seminar room of the hotel, lunch provided
Tuesday, 24.9., 18:30	dinner in the hotel
Wednesday, 25.9., 9:00-12:00	workshop program in the seminar room of the hotel
Wednesday, 25.9., 12:00	workshop closes lunch available in the hotel



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Detailed Program Day 1

Monday, 23 September		
9:00 – 9:15	Manuel Torrilhon	<i>opening</i>
9:15 – 10:15	Alejandro Alvarez Laguna (CNRS Paris)	<i>Modeling and numerical methods for non-equilibrium reacting partially-ionized plasmas</i>
10:15 – 10:45	break	
10:45 – 11:15	Simon Candelaresi	<i>Adaptive multiphysics simulations coupled in Trixi.jl</i>
11:15 – 11:45	Omar Malik	<i>Dynamical Low-Rank Approximations for Two-Particle Kinetic Equations</i>
11:45 – 12:15	Bella Duong	<i>Derivation and Numerical Simulation of a Coupled Moment System for Sedimentation in Suspensions of Rod-Like Particles</i>
12:15 – 14:00	lunch	
14:00 – 15:00	Georgii Oblapenko (RWTH Aachen)	<i>Entropy-Stable Discretizations for Fluid Dynamics with Real-Gas Behavior</i>
15:00 – 16:00	long break	
16:00 – 16:30	Eda Yilmaz	<i>Nonlinear Closures for Moment Equations Based on Orthogonal Polynomials</i>
16:30 – 17:00	Satyvir Singh	<i>Simulations of Grad-Type Kinetic Equations in Continuum-Rarefied Flows</i>
17:00 – 17:30	Daniel Döhring	<i>Multirate Time-Integration with P-ERK: What's in the books, what s next?</i>



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Detailed Program Day 2

Tuesday, 24 September			
9:00 – 10:00	Pia Stammer (TU Delft)	<i>Numerical methods for radiation transport: From model order reduction to medical applications.</i>	
10:00 – 10:30	break		
10:30 – 11:00	Francesco Fambri	<i>A well-balanced semi-implicit hybrid FV/FE scheme for the incompressible MHD equations</i>	
11:00 – 11:30	Magnus Deisenhofer	<i>Asymptotic Preserving Scheme in MuPhy: MHD-Maxwell Coupling – part 1</i>	
11:30 – 12:00	Aleksandr Mustonen	<i>Asymptotic Preserving Scheme in MuPhy: MHD-Maxwell Coupling – part 2</i>	
12:00 – 14:00	lunch		
14:00 – 15:00	Aleksey Sikstel	<i>A-posteriori error estimates for conservation laws</i>	
15:00 – 15:30	break		
15:30 – 18:00	Hands-on Session 1: <i>Adaptively coupled multiphysics on different meshes</i>	Hands-on Session 2: <i>Splitting Methods for the Vlasov Equation</i>	Hands-on Session 3: <i>Cell-wise Maximum-Entropy for construction of (DG) Limiter</i>



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Detailed Program Day 3

Wednesday, 25 September		
9:00 – 10:00	Daniel Bach	<i>Mimetic Metrics for the DGSEM</i>
10:00 – 10:30	break	
10:30 – 11:00	Gudrun Grünwald	<i>Toward a positivity-preserving split-step Active Flux Method for the Vlasov-Maxwell System – 1</i>
11:00 – 11:30	Yanick Kiechle	<i>Toward a positivity-preserving split-step Active Flux Method for the Vlasov-Maxwell System – 2</i>
11:30 – 12:00	everybody	<i>final discussion and outlook</i>
12:00 – 14:00	lunch	