

Program Overview

Sunday, 21.9., from 16:00	arrival
Sunday, 21.9., 18:30	dinner in the hotel
Monday, 22.9., 9:00-17:30	workshop program in the seminar room of the hotel, lunch provided
Monday, 22.9., 18:30	dinner in the hotel
Tuesday, 23.9., 9:00-17:30	workshop program in the seminar room of the hotel, lunch provided
Tuesday, 23.9., 18:30	dinner in the hotel
Wednesday, 24.9., 9:00-12:00	workshop program in the seminar room of the hotel
Wednesday, 24.9., 12:00	workshop closes lunch available in the hotel

Detailed Program Day 1

Monday, 22 September		
9:00 – 9:15	Manuel Torrilhon	<i>opening</i>
9:15 – 10:15	Sigrun Ortleb (Universität Kassel)	<i>IMEX upwind summation-by-parts schemes for advection-diffusion and kinetic models</i>
10:15 – 11:00	break	
11:00 – 11:30	Yanick Kiechle	<i>Active Flux for the Vlasov and Maxwell's equation, Part 1</i>
11:30 – 12:00	Gudrun Grünwald	<i>Active Flux for the Vlasov and Maxwell's equation, Part 2</i>
12:00 – 14:00	lunch	
14:00 – 15:00	Daniel Döhring	<i>Entropy-Stable Multirate Time-Integration through Paired-Explicit Relaxation Runge-Kutta Methods</i>
15:00 – 16:00	long break	
16:00 – 16:30	Bella Duong	<i>Modeling and Simulations of Sedimentation in Suspensions of Rod-Like Particles</i>
16:30 – 17:30	- Internal Working Session Principal Investigators -	

Detailed Program Day 2

Tuesday, 23 September			
9:00 – 9:30	Satyvir Singh	<i>High-fidelity simulations of polytropic gas flows with Grad's 14- and 17-moment closures</i>	
9:30 – 10:00	Matthias Geratz	<i>Towards a Model-Adaptive Discontinuous Galerkin Scheme for Hierarchical Moment Equations</i>	
10:00 – 10:30	break		
10:30 – 11:00	Daniel Bach	<i>Turning Summation by Parts Finite Difference Operators into Divergence-free Schemes using the de Rham Cohomology</i>	
11:00 – 11:30	Omar Malik	<i>Dynamical Low-Rank Approximation for the Vlasov-Poisson-Fokker-Planck Equation</i>	
11:30 – 12:00	Eda Yilmaz	<i>A reduction strategy for Moment Closure for Multidimensional Systems: From 3D Tensors to 1D Solutions</i>	
12:00 – 14:00	lunch		
14:00 – 15:00	Martin Kronbichler	<i>Efficient numerical algorithms for coupled problems with the deal.II library</i>	
15:00 – 15:30	break		
15:30 – 18:00	Hands-on Session 1: coupling strategies for Vlasov-Poisson	Hands-on Session 2: Model Interface-Coupling in Trixi.jl	Hands-on Session 3: ???

Detailed Program Day 3

Wednesday, 24 September		
9:00 – 10:00 -45	Jürgen Dreher	<i>Adaptive Coupling of the Mono- and Bidomain Models of Cardiac Electrophysiology</i>
10:00 – 10:30	break	
10:30 – 11:00 -20	Simon Candelaresi	<i>Multiphysics coupling and adaptive model selection using p4est meshes in Trixi.jl</i>
11:00 – 11:30 -20	Magnus Deisenhofer	<i>Coupling between Magnetohydrodynamic and Kinetic Simulation Codes</i>
11:30 – 12:00 -20	everybody	<i>final discussion and outlook</i>
12:00 – 14:00	lunch	