Monday, January 22, 2024

08:30 – 09:00	Welcome and registration
09:00 – 09:15	Christian Rohde (University of Stuttgart) Introduction to CoScaRa
09:15 – 10:00	Constantin M Dafermos (Brown University) *Hyperbolic balance laws with stiff source*
10:00 – 10:20	Coffee break
10:20 – 11:05	Denis Serre (ENS Lyon) *On dispersion estimates for compressible gases*
11:05 – 11:30	Gianluca Crippa (University of Basel) *Anomalous dissipation and lack of selection in passive-scalar advection*
11:30 – 13:00	Lunch & coffee
13:00 – 13:45	Michael Wilczek (University of Bayreuth) *Deterministic and stochastic models for fluid turbulence*
13:45 - 14:10	Jörg Schumacher (TU Ilmenau) *Dissipative anomaly and convex integration in compressible turbulence*
14:10 – 14:30	Coffee break
14:30 – 15:15	Ulrik S. Fjordholm (University of Oslo) *Stability of a numerical method for a transport equation, with the help of noise*
15:15 - 15:40	Hossein Gorji (Laboratory for Multiscale Studies in Building Physics, EMPA) *Fokker-Planck kinetics and Wasserstein-penalized entropy closure: Use case for stochastic particle methods*
15:40 – 16:05	Rishabh Gvalani (Max Planck Institut) *Mixing by statistically self-similar Gaussian random fields*
16:05 - 16:30	Coffee break
16:30 – 17:00	Meeting of CoScaRa Members
19:30	**Conference dinner**

Tuesday, January 23, 2024

09:00 – 09:45	Patrick Jenny (ETH Zurich) *Adaptive conservative time integration schemes for unsteady compressible flows*
09:45 – 10:10	Jan Giesselmann (TU Darmstadt) *A posteriori error estimates for hyperbolic conservation laws and related models of compressible flows*
10:10 – 10:30	Coffee break
10:30 - 11:15	Rupert Klein (FU Berlin) *Thoughts on multiscale modelling, model hierarchies, and admissible solutions*
11:15 – 11:40	Christiane Helzel (Heinrich Heine University of Düsseldorf) *Active Flux methods for hyperbolic conservation laws*
11:40 – 13:00	Lunch
13:00 – 13:45	Andrea Beck (University of Stuttgart) *Discretization-consistent closure schemes for compressible turbulence*
13:45 - 14:30	Gerald Warnecke (OVGU Magdeburg) *Supernovae, airfoils and combustion engines: The fascination of the compressible Euler equations*
14:30	Closing/discussion