

MS16: Kinetic equations: numerical methods and applications Organizers: Giulia Bertaglia and Elisa Iacomini**Part I - Tuesday, August 29th**

Time	Speaker	Name of the talk
15:45-16:10	Lorenzo Pareschi	Asymptotic-preserving IMEX methods: bridging scales in hyperbolic and kinetic equations
16:10-16:35		
16:35-17:00	Giacomo Borghi	A kinetic perspective on genetic algorithms in optimization
17:00-17:25	Felisia Angela Chiarello	Hydrodynamic traffic flow models including random accidents: A kinetic derivation
17:25-17:50	Martina Conte	A kinetic study on cell migration: the twofold influence of the extracellular matrix
17:50-18:15	Andrea Medaglia	Particle stochastic-Galerkin methods for uncertainty quantification of plasma equations

Part II - Wednesday, August 30th

Time	Speaker	Name of the talk
10:45-11:10	Elisa Calzola	A data-driven kinetic model for opinion dynamics and contacts
11:10-11:35	Jonathan Franceschi	Kinetic models on interactions within communities
11:35-12:00	Federica Ferrarese	Kinetic description of swarming dynamics with transient leadership
12:00-12:25	Nadia Loy	Kinetic and Macroscopic Description of Self-Organizing Multi-Agent Systems with Continuous Leader-Follower Transition Dynamics
12:25-12:50	Marco Menale	A kinetic theory approach to modeling prey-predator ecosystems with expertise levels
12:50-13:15	Pablo Solán-Fustero	Study on the consistency of POD-based ROM applied to SWE solved with augmented Riemann solvers