Workshop "Nonlinear evolutionary equations and applications"- Schedule

Time	Tuesday	Wednesday	Thursday	Friday
08:00 - 08:55	00.09.2022	07.09.2022	06.09.2022	09.09.2022
08:55 - 09:00	Opening - Chair: Greta Marino			
09:00 - 10:00	Li Chen	Ansgar Jüngel	Alexander Mielke	Manuel Friedrich
	Rigorous Derivation of the Degenerate Parabolic-Elliptic Keller- Segel System from a Moderately Interacting Stochastic Particle System	Cross-diffusion systems with entropy structure	Convergence of a split-step scheme for gradient flows with a sum of two dual dissipation potentials	Nonlinear and linearized models in thermoviscoelasticity
10:00 - 11:00	Coffee break	Coffee break	Coffee break	Coffee break
11:00 - 11:30	Anastasiia Hraivoronska	Annamaria Massimini	Stefanos Georgiadis	Kamal Khalil
	Diffusive limit of random walks on tessellations via generalized gradient flows	Analysis of a Poisson-Nernst-Planck-Fermi model for ion transport in biological channels	Asymptotic derivation of multicomponent compressible flows with heat conduction and mass diffusion	Analysis of a spatio-temporal advection-diffusion model for human behaviors in a disaster situation
11:30	Clément Cancès	André Schlichting	Jean Cauvin-Vila	Salem Nafiri
	On a thormodynamically consistent (reduced) model for iron		A Cross-Diffusion Cahn-Hilliard system: existence and numerics	Homogenization of weakly coupled thermoelastic wave model
12:00	corrosion	Gradient structures and tilting	Julia Hauser	Umberto Guarnotta
			A Convergent Finite Volume Method for a Kinetic Model for Interacting Species	On a non-homogeneous parabolic equation with singular and convective reaction
12:30 - 14:00	Lunch break	Lunch break	Lunch break	
14:00 - 14:30	Alex Rossi	Chun Yin Lam	Sebastian Hensel	
	Analysis of kinetic models for label switching and stochastic gradient descent	Variational convergence of exchange-driven growth model in hydrodynamic limit	Robustness of the relative entropy approach to interface evolution: Mean curvature flow with constant contact angle	
14:30 - 15:30	Marie-Therese Wolfram	Daniel Matthes	Tim Laux	
	Collective dynamics in the social and data sciences	Exponential equilibration in cross-diffusion systems with gradient flow structure	The large-data limit of the MBO scheme for data clustering	
15:30 - 16:00	Coffee break	Coffee break	Coffee break	
16:00 - 16:30	Alexandra Holzinger	Patrik Knopf	Sebastian Throm	
	Rigorous mean-field derivation of cross-diffusion models of SKT-type	Two-phase flows with bulk-surface interaction: A Navier–Stokes–Cahn–Hilliard model with dynamic boundary conditions	Self-similar long-time behaviour for 1d kinetic equations	
16:30 - 17:00	Demou Luo	Georg Heinze	Jakob Fuchs	
	Nonconstant steady states and pattern formation of generalized 1D cross-diffusion systems with prey-taxis	Nonlocal Cross-Interaction Systems on Graphs: Nonquadratic Finslerian Structure and Nonlinear Mobilities	Strong Convergence of the Thresholding Scheme for the Mean Curvature Flow of Mean Convex Sets	
20:00		Social dinner		