6.2.2013, 06.02.2013, 13:00 - 18:15

13:00 - 14:00	Registration
14:00 - 14:15	Opening
14:15	**Günther Grün** On convergent schemes for diffuse interface models for two-phase flow of incompressible fluids with general mass densities
15:00	**Jan Giesselmann** (Program modification !) Modeling of compressible electrolytes with phase transition
15:30	**Frédéric Charve** Convergence of capillary fluid models: from non-local to local models
16:00 - 16:30	Coffee Break
16:30	**Elisabetta Rocca** Nonlocal Cahn-Hilliard-Navier-Stokes systems with nonconstant mobility
17:15	**Gabriele Witterstein** Incompressible Limit of Compressible Phase Change Flows
17:45	**Mirko Kränkel** Numerics for a compressible Allen-Cahn-Navier-Stokes-System

7.2.2013, 07.02.2013, 09:00 - 22:00

09:00	**Thomas Hillen**
	Spatio-temporal chaos in chemotaxis models
09:45	**Ee Han**
	Modelling phase transition for compressible multi–phase flows
10:15	**Edwige Godlewski**
	A possible hierarchy between a two-pressure bifluid model and a drift model: example of coupling of two models with different sizes
10:45 - 11:15	Coffee Break
11:15	**Boris Andreianov**
	Solutions of Buckley-Leverett equation in heterogeneous medium and their approximation
12:00	**Hélène Mathis**
	Error estimate based on relative entropy for finite volume approximations of smooth solutions to hyperbolic systems
12:30	**Mathieu Girardin**
	Asymptotic preserving numerical scheme for the gas dynamics equations in the low Mach limit
13:00 - 14:00	Lunch Break
14:00	**Frederic Coquel**
	Vanishing phase in Baer-Nunziato models and Entropy dissipation
14:45	**Christoph Zeiler**
	Curvature Driven Liquid-Vapour Flow with Phase Transition: Exact and Approximative Riemann Solvers
15:15	**Jochen Neusser**
	An order parameter model for phase transitions
15:45 - 16:00	Coffee Break
16:00	**Barbara Wagner**
	Exploring the limits: Evolution equations for interfaces at the nano scales
16:45	**Vincent Le Chenadec**
	A Volume-of-Fluid based framework for the Direct Numerical Simulation of turbulent primary atomization
17:15	**Bugra Kabil**
	The influence of surface tension and configurational forces on the stability of liquid-vapor interfaces
19:00 - 22:00	Dinner

8.2.2013, 08.02.2013, 09:00 - 12:45

09:00	**Athanasios Tzavaras**
	The onset of cavitation for the equations of polyconvex elasticity
09:45	**Christian Dickopp**
	Coupling of Elastic Solids with Compressible Two-Phase Fluids for the Numerical Investigation of Cavitation Damaging
10:15	**Jonathan Jung**
	Computing liquid-gas compressible flows on GPU
10:45 - 11:00	Coffee Break
11:00	**Boris Haspot**
	Existence of global strong solution and vanishing capillarity-viscosity limit in one dimension for the Korteweg system
11:30	**Marica Pelanti**
	A mixture-energy-consistent approximation of a two-phase flow model with liquid-vapor transition for the simulation of cavitating fluids
12:00	**Adam Larat**
	A high order realizability preserving Discontinuous Galerkin method for Eulerian simulation of spray transport on unstructured meshes
12:30 - 12:45	Closing