

List of Talks

Tuesday, 10th

Time	Speaker	Title of Talk
09:00 - 10:00	Masmoudi	Existence Results for some Micro-Macro Models (Tutorial 1)
10:15 - 11:15	Liu	Energetic Variational Approaches for Ionic Fluids and Ion Channels (Tutorial 1)
11:40 - 12:10	Maekawa	On zero viscosity limit of viscous incompressible flows in the half plane
12:15 - 12:45	Szekélyidi	Dissipative Euler flows and Onsager's conjecture
14:15 - 15:15	Liu	Energetic Variational Approaches for Ionic Fluids and Ion Channels (Tutorial 2)
15:30 - 16:30	Masmoudi	Existence Results for some Micro-Macro Models (Tutorial 2)
16:50 - 17:20	Thiele	The rugged beauty of deposition patterns at receding contact lines
17:25 - 17:55	Friedmann	Analytical and numerical issues about Drag Predictions from boundary layer models of turbulent flow over rough surfaces
18:30 - 18:45	Wick	Adaptive Finite Elements for PDE-Constrained Optimization with Fluid-Structure Interaction
18:45 - 19:00	Buckmaster	The Korteweg-de Vries Equation at H^{-1} regularity
19:00 - 19:15	von Below	Spin coating of a heat conducting liquid
19:15 - 19:30	Schöchtel	Clustering of inertial particles in fractional Gaussian fields

Wednesday, 11th

Time	Speaker	Title of Talk
09:00 - 10:00	Liu	Energetic Variational Approaches for Ionic Fluids and Ion Channels (Tutorial 3)
10:15 - 11:15	Masmoudi	Existence Results for some Micro-Macro Models (Tutorial 3)
11:40 - 12:10	Sueur	Uniqueness results for weak solutions of two-dimensional fluid-solid systems
12:15 - 12:45	Růžička	Numerical analysis of problems with p-structure
14:15 - 15:15	Masmoudi	Existence Results for some Micro-Macro Models (Tutorial 4)
15:30 - 16:30	Liu	Energetic Variational Approaches for Ionic Fluids and Ion Channels (Tutorial 4)
16:50 - 17:20	Naumann	Remarks on Kolmogorov's and Prandtl's model of turbulence
17:25 - 17:55	Ibrahim	On the wellposedness of the Navier-Stokes Maxwell equations
18:15 - 18:45	Varnhorn	On extensions of Serrin's condition for the Navier-Stokes equations
18:50 - 19:05	Saito	On the L_p - L_q maximal regularity of the Neumann-Dirichlet problem for the Stokes equations in an infinite layer
19:05 - 19:20	Richter	Fluid-Structure Interactions in Eulerian Coordinates
19:20 - 19:35	Wilke	On the Rayleigh-Taylor instability for the two-phase Navier-Stokes equations with surface tension in a capillary

Thursday, 12th

Time	Speaker	Title of Talk
09:00 - 09:30	Danchin	A Lagrangian approach for inhomogeneous incompressible fluids
09:35 - 10:05	Fang	Strong Solutions of 3D Compressible Oldroyd-B Fluids
10:10 - 10:40	Molinet	Newtonian limit for some viscoelastic models
11:05 - 11:35	Kozono	Uniqueness of weak solutions of the Navier-Stokes equations in general unbounded domains
11:40 - 12:10	Knüpfer	Well-posedness & Lubrication approximation of the Darcy flow in the presence of a moving contact line
12:15 - 12:45	Diening	Solenoidal Lipschitz truncation and applications
14:15 - 14:45	Mazzucato	Boundary layers for a class of non-linear flows in pipes and channels
14:50 - 15:20	Sawada	Ill-posedness and norm-inflation arguments of the 3-D Navier-Stokes
15:50 - 16:20	Nečasová	Weak solutions for the motion of a self-propelled deformable structure in a viscous incompressible fluid
16:25 - 16:55	Kunstmann	Functional calculi for some operators in fluid dynamics
17:15 - 17:30	Murata	On the sectorial \mathcal{R} -boundedness of the Stokes operator for the compressible viscous fluid flow with slip boundary conditions
17:30 - 17:45	Nesenson	L_p -theory for a class of viscoelastic fluid models
17:45 - 18:00	Abe	The L^∞ -Stokes semigroup in exterior domains
18:00 - 18:15	Sauer	Ergodicity for Generalized Newtonian Fluids
18:15 - 18:30	Götz	An a priori estimate for a Poiseuille-type complex fluid flow

Friday, 13th

Time	Speaker	Title of Talk
09:00 - 09:30	Feireisl	A new approach to thermodynamics of liquid crystals
09:35 - 10:05	Abels	On a Diffuse Interface Model for Two-Phase Flows with Different Densities and Degenerate Mobility
10:10 - 10:40	Monniaux	Navier-Stokes-Coriolis equations in unbounded domains
11:05 - 11:35	Shibata	On some unique existence theorem of strong solutions in the mathematical theory of viscous compressible fluid flow
11:40 - 12:10	Prohl	Space-time discretization of the stochastic incompressible Navier-Stokes equation
12:15 - 12:45	Prüß	Modeling and Analysis of Incompressible Two-Phase Flows with Phase Transitions and Variable Surface Tension