Special Session 155: Advances in mathematical modelling and numerical simulation of superfluids

Organizer(s): Ionut Danaila , Weizhu Bao

Parallel Session 9 :: Thursday, 07/09, 8:00-10:00	**Room 738**
8:00-8:30	**Blair Blakie** (University of Otago, New Zealand) Supersolidity in Dipolar Bose-Einstein condensates (detail1.php?abs_no=1734)
8:30-9:00	**Han Pu** (Rice University, USA) Floquet geometric squeezing in fast-rotating condensates (detail1.php?abs_no=688)
9:00-9:30	**Dmitry Pelinovsky** (McMaster University, Canada) NLS equation with competing nonlinearities: orbital stability of kinks and solitons (detail1.php?abs_no=135)
9:30-10:00	**Weizhu Bao** (National University of Singapore, Singapore) Computational methods for the nonlinear Schroedinger equation with low regularity potential and nonlinearity (detail1.php?abs_no=615)

Parallel Session 10 :: Thursday, 07/09, 13:30-16:00	**Room 738**
13:30-14:00	**Ricardo Carretero** (San Diego State University, USA) Dynamical reduction for solitonic filaments (detail1.php?abs_no=2198)
14:00-14:30	**Luminita Danaila** (University of Rouen Normandy, France) Scale-by-scale scalar statistics and extreme events in non-equilibrium multicomponent flows (detail1.php?abs_no=2046)
14:30-15:00	**Michikazu Kobayashi** (Kochi University of Technology, Japan) Superfluidity and phase transition in discrete clock symmetry (detail1.php?abs_no=1819)
15:00-15:30	**Chunmei Su** (Tsinghua University, Peoples Rep of China) High-order parametric local discontinuous Galerkin methods for anisotropic curve-shortening flows (detail1.php?abs_no=1481)
15:30-16:00	**Bartosz Protas** (McMaster University, Canada) On inviscid instabilities of 2D vortices (detail1.php?abs_no=1990)

Parallel Session 11 :: Thursday, 07/09, 16:30-19:00	**Room 738**
16:30-17:00	**Wei Liu** (National University of Defense Technology, Peoples Rep of China) Computing the action ground states of nonlinear Schr\odinger equation (detail1.php?abs_no=1861)
17:00-17:30	**Ionut Danaila** (University of Rouen Normandy, France) Numerical models for coupling Navier-Stokes and Gross-Pitaevskii solvers for two-fluid quantum flows (detail1.php?abs_no=1625)