

## Programme for Kick-off SIG Meeting in Quantum Fluids

Wednesday 21<sup>st</sup> June

Room B26, Zochonis Building

- 12:50 – 13:00 Welcome  
13:00 – 13:30 Introductions by representatives of participating institutions
- Session: Turbulence in Quantum Fluids
- 13:30 – 14:00 **Carlo Barenghi** (Newcastle) *Why quantum turbulence?*  
14:00 – 14:30 **Andrei Golov** (Manchester) *Experiments on turbulence in superfluid 4He in the  $T=0$  limit: background and history*  
14:30 – 15:00 **Joe Vinen** (Birmingham) *An introduction to quantum turbulence in a two-fluid system*
- 15:00 – 15:45 **Coffee Break**
- Session: Nonequilibrium Phenomena in BECs
- 15:45 – 16:15 **Robert Smith** (Cambridge) *Experiments on studying nonequilibrium phenomena and turbulence in BECs*  
16:15 – 16:45 **Nick Proukakis** (Newcastle) *Modelling nonequilibrium quantum fluids*  
16:45 – 17:15 **Sergey Nazarenko** (Warwick) *Wave turbulence in quantum fluids and BEC: an overview*  
17:15 – 17:30 **Bob Kerr** (Warwick) *HPC spectral codes for classical and quantum fluids*
- 18:00 - **Dinner** **Foyer of Schuster Building**

Thursday 22<sup>nd</sup> June

Room B26, Zochonis Building

- Session: Superfluids with Novel Topological Excitations
- 09:15 – 09:45 **Victor Tsepelin** (Lancaster) *Visualizing quantum turbulence in superfluid 3He-B using quasiparticles*  
09:45 – 10:15 **Magnus Borgh** (UEA) *Spinor Bose-Einstein condensates as laboratories for topological defects and textures*  
10:15 – 10:45 **Nick Parker** (Newcastle) *A primer on quantum ferrofluids*
- 10:45 – 11:30 **Coffee Break**
- Session: Superfluids Confined to Low Dimensions
- 11:00 – 11:30 **Marzena Szymanska** (UCL) *Driven-dissipative polariton quantum fluids in and out of equilibrium*  
11:30 – 12:00 **Simon Gardiner** (Durham) *Sagnac interferometry with Bose-Einstein condensates*  
12:00 – 12:30 **Thomas Billam** (Newcastle) *Vortex dynamics and turbulence in two-dimensional BECs*
- 12:30 – 12:45 Closing Remarks