

Bifurcation-Theoretic Computations & Classical Density Functional Theory

Please email organisers Andrew Parry (a.o.parry@ic.ac.uk) or Robert Beardmore (r.beardmore@ic.ac.uk) for more information

- 11:00-11:40 *Fluids Confined by Opposing (Solvophobic and Solvophilic) Substrates: a DFT Perspective*
Bob Evans FRS, Bristol University
- 11:45-12:25 *The Depletion Force of Hard-Body Colloidal Physics*
Jim Henderson, Leeds University
- 12:30-13:10 *Inhomogeneous Platelets, Dispersions and Dynamics of Spheres: Numerical Challenges in Classical DFT*
Matthias Schmidt, Bristol University

Lunch @ Jacobs

- 14:50-15:20 *Computing Bifurcations for 1-d Problems: Interfacial Hamiltonians and DFT*
Robert Beardmore, Imperial
- 15:25-16:15 *Why Advanced Solver and Bifurcation Methods are Important in the Solution and Application of Nonlocal Fluids-Density Functional Theories*
Laurie Frink, Colder Insights Corp. and Sandia National Laboratories, US

