

5. Dichtefunktionaltage in Tübingen September 13-15, 2017 (Density Functional Days in Tübingen)

organized by Roland Roth, Martin Oettel (Uni Tübingen),
and Joe Brader (Uni Fribourg)

Location: Schloß Hohentübingen - Fürstenzimmer



Wednesday, Sep 13		Inhomogeneous Liquids and Phase Behavior I
14.00-14.35	Bob Evans (Bristol)	The standard mean-field treatment of inter-particle attraction in DFT is better than one might expect
14.35-15.10	Andy Archer (Loughborough)	Liquid drops on a surface: using DFT to calculate the binding potential and drop profiles and comparing with results from mesoscopic modelling
15.10-15.45	Alberto Giacomello (Rome)	Perpetual superhydrophobicity
15.45-16.15		<i>Coffee Break</i>
16.15-16.50	Martin Oettel (Tübingen)	Lattice FMT for sticky rods
16.50-17.25	Roland Roth (Tübingen)	Structure and Correlations of Hard Disks
17.30-19.00		<i>Discussion with beer and wine</i>
Thursday, Sep 14		Dynamics and Active Particles I
9.00-9.35	Matthias Krüger (Stuttgart)	Field theory for non-equilibrium classical fluids: Viscosity and fluctuation forces.
9.35-10.10	Matthias Schmidt (Bayreuth)	Progress in power functional theory
10.10-10.45	Daniel de las Heras (Bayreuth)	Square gradient power functional theory for Brownian dynamics
10.45-11.15		<i>Coffee Break</i>
11.15-11.50	Rene Wittmann (Fribourg)	Active particles close to equilibrium: DFT and other familiar approaches
11.50-12.25	Andreas Menzel (Düsseldorf)	Dynamical density functional theory for suspensions of active microswimmers
12.30-13.45		<i>Lunch</i>
13.45		<i>Workshop photo</i>

Thursday, Sep 14		Dynamics and Active Particles II, Phase Behavior II
14.00-14.35	Joe Brader (Fribourg)	Colloidal particles in the presence of spatially varying activity
14.35-15.10	Ben Goddard (Edinburgh)	DDFT with hydrodynamic interactions in confined geometries.
15.10-15.40		<i>Coffee Break</i>
15.40-16.15	Matthias Fuchs (Konstanz)	Emergence of long-ranged stress correlations in supercooled liquids
16.15-16.50	Markus Weißenhofer (Wien)	Ordered structures formed by ultrasoft, anisometric particles
19.00		<i>Conference dinner</i>
Friday, Sep 15		Applications
9.00-9.35	Hendrik Hansen-Goos (Tübingen)	Curvature expansion of the FMT for hard disks
9.35-10.10	Mathieu Marechal (Erlangen)	Particles on negatively curved surfaces
10.10-10.45	Hendrik Bartsch (Stuttgart)	Diversity of smectic phases in ionic liquid crystals
10.45-11.15		<i>Coffee Break</i>
11.15-11.50	Dirk Gillespie (Chicago)	Applications of new electrostatic functionals to the electrical double layer
11.50-12.25	Andreas Härtel (Freiburg)	On the free energy functional for the primitive model of charged hard spheres
12.30		<i>Closing remarks</i>