

1. Tübinger Dichtefunktionaltage (Tübingen Density Functional Days)

September 25-27, 2013

Program

Location: Science Campus

Auf der Morgenstelle 14 (**Building D**), room **D4A19**

Wednesday, Sep 25		Complex systems, dynamics I
14.00-14.45	Pawel Bryk (Lublin)	Solvation effects for polymers at an interface: A hybrid self-consistent field - density functional approach
14.45-15.30	Maximilien Levesque (Paris)	Molecular density functional theory of water describing hydrophobicity at short and long length scales
<i>15.30-16.00</i>		<i>coffee break</i>
16.00-16.45	Daniel de las Heras (Bayreuth)	Phase stacking diagram of colloidal mixtures under gravity
16.45-17.30	Matthias Schmidt (Bayreuth)	Power functional theory for Brownian dynamics
17.30-19.00		discussion with beer and wine
Thursday, Sep 26		Simple fluids, dynamics II
9.00-9.45	Bob Evans (Bristol)	Weeks' successful Local Molecular Field Theory for non-uniform fluids viewed from a DFT perspective
9.45-10.30	Hendrik Hansen-Goos (Berlin)	Fundamental measure theory for (sticky) hard spheres in confinement
<i>10.30-11.00</i>		<i>coffee break</i>
11.00-11.45	Matthias Krüger (Stuttgart)	Brownian particles under shear and density functional theory
11.45-12.30	Joe Brader (Fribourg)	A non-equilibrium Ornstein-Zernike relation for Brownian dynamics
<i>12.30-13.45</i>		<i>Lunch</i>
<i>13.45</i>		<i>Workshop photo</i>

Thursday, Sep 26		Crystals and interfaces, electrostatics I
14.00-14.45	Andy Archer (Loughborough)	Formation of quasicrystals and other exotic crystal structures in a soft-core fluid: a tale of two length scales
14.45-15.30	Martin Oettel (Tübingen)	Equilibrium and steady-state interfaces in DFT
<i>15.30-16.00</i>		<i>coffee break</i>
16.00-16.30	Cristian Achim (Düsseldorf)	Crystal-fluid surface energies of Yukawa systems in the density functional theory of freezing
16.30-17.15	Dirk Gillespie (Chicago)	A very good, but imperfect electrostatics functional
17.15-17.45	Andreas Härtel (Utrecht)	Density functional theory of hard and Coulombic particles
<i>19.00</i>		<i>Workshop dinner (Ludwig's)</i>
Friday, Sep 27		Electrostatics II, anisotropic systems
9.00-9.45	Stephan Korden (Aachen)	Surface charge interaction models and Fundamental Measure Theory
9.45-10.30	Roland Roth (Tübingen)	Fundamental Measure Theory for Charged Hard Spheres
<i>10.30-11.00</i>		<i>coffee break</i>
11.00-11.45	Matthieu Marechal (Erlangen)	Density functional theory for hard polyhedra
11.45-12.15	Rene Wittmann (Erlangen)	Fundamental mixed Measure Theory
<i>12.15</i>		<i>Closing remarks</i>