

6. Dichtefunktionaltage in Tübingen September 10-12, 2018 (Density Functional Days in Tübingen)

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

Location: Auf der Morgenstelle 14 (Building D), room D4A19

Monday, Sep 10		Structure and Phases I
14.00-14.45	Bob Evans (Bristol)	Structural crossover in a model fluid exhibiting two length scales: repercussions for quasicrystal formation
14.45-15.30	Alina Ciach (Warsaw)	Combined density functional and Brazovskii theories for systems with spontaneous inhomogeneities
15.30-16.00		<i>Coffee Break</i>
16.00-16.45	Roland Roth (Tübingen)	The curious life of patchy particles
16.45-17.10	Josh Robinson (Bristol)	Beyond Pair Correlations in the Hard Sphere Fluid: a Morphometric Approach
17.10-17.55	Johannes Häring (Konstanz)	Elastic free energies of colloidal layers: Shape matters
18.00-19.00		<i>Discussion with beer and wine</i>
Tuesday, Sep 11		Dynamics
9.00-9.45	Matthias Schmidt (Bayreuth)	Progress in power functional theory
9.45-10.30	Daniel de las Heras (Bayreuth)	A complete classification of superadiabatic forces in Brownian dynamics
10.30-11.00		
11.00-11.45	Matthias Krüger (Göttingen)	Non-equilibrium Modes of a Driven Brownian Particle
11.45-12.30	Rene Wittmann (Fribourg)	Towards a DDFT for single-particle diffusion

12.30		<i>Announcements</i>
12.45-13.45		<i>Lunch</i>
13.45		<i>Workshop photo</i>

Tuesday, Sep 11		Structure and Phases II, Electrostatics
14.00-14.45	Jim Lutsko (Bruxelles)	DFT and the crystalline state
14.45-15.30	Martin Oettel (Tübingen)	Crystals in binary mixtures of hard disks
15.30-16.00		<i>Coffee Break</i>
16.00-16.45	Hendrik Hansen-Goos (Tübingen)	Generalized scaled-particle theory for the hard-disk fluid
16.45-17.30	Fabian Coupette (Freiburg)	Screening lengths in ionic fluids
17.30-17.55	Peter Cats (Utrecht)	DFT for Ionic Liquids
17.55-18.20	Maximilian Mußotter (Stuttgart)	Electrolyte solutions confined by non-uniform walls
19.00		<i>Conference dinner at Ludwig's</i>
Wednesday, Sep 12		Active Matter, Molecular Matter
9.30-10.15	Umberto Marini Bettolo Marconi (Camerino)	Statistical Mechanics of active matter
10.15-10.40	Sophie Hermann (Bayreuth)	Phase coexistence in active Brownian particles
10.40-11.05	Segun Goh (Düsseldorf)	A route towards density functional theory for ferrogels with distinguishable particles
11.05-11.35		<i>Coffee Break</i>
11.35-12.05	Daniel Borgis (Paris)	Molecular DFT I
12.05-12.35	Maximilien Levesque (Paris)	Molecular DFT II
12.35		<i>Closing remarks</i>