

#### 4. Dichtefunktionaltage in Tübingen    September 19-21, 2016 (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**

<b>Monday, Sep 19</b>		
		<b>DDFT and Beyond</b>
14.00-14.45	Jim Lutsko (Bruxelles)	Foundations of DDFT: does Brownian dynamics exist?
14.45-15.30	Matthias Krüger (Stuttgart)	Near-equilibrium Fluctuations and Dynamical Density Functional Theory
15.30-16.00		<i>Coffee Break</i>
16.00-16.45	Matthias Schmidt (Bayreuth)	Power functional rheology
16.45-17.30	Philipp Krinninger (Bayreuth)	Nonequilibrium phase behaviour from minimization of free power dissipation
17.30-19.00		<i>Discussion with beer and wine</i>
<b>Tuesday, Sep 20</b>		
		<b>Dynamics and Transport</b>
9.00-9.45	Hendrik Hansen-Goos (Tübingen)	Dynamical density functional theory for colloid-polymer mixtures
9.45-10.30	Alberto Scacchi (Fribourg)	Shear induced migration
10.30-11.00		<i>Coffee Break</i>
11.00-11.45	Johannes Bleibel (Tübingen)	Colloids in vertical confinement: Onset of anomalous diffusion
11.45-12.30	Daniel de las Heras (Bayreuth)	Colloidal transport above magnetic lattices
12.30-13.45		<i>Lunch</i>
13.45		<i>Workshop photo</i>

<b>Tuesday, Sep 20</b>		
		<b>Applications</b>
14.00-14.45	Alberto Giacomello (Rome)	Wetting hysteresis induced by nanodefects
14.45-15.30	Matthias Fuchs (Konstanz)	Elasticity theory: Coarse-graining in solids with disorder
15.30-16.00		<i>Coffee Break</i>
16.00-16.45	Arghya Majee (Stuttgart)	Electrostatic interaction between colloids trapped at an electrolyte interface
16.45-17.30	Brian Laird	Surface free energy and solvation of hard-sphere nanoparticles In a hard-sphere fluid
17.30-18.15	Andy Archer (Loughborough)	Solvent fluctuations around solvophobic, solvophilic and patchy nanostructures and the solvent mediated interactions between them
19.00		<i>Conference dinner at Ludwig's</i>
<b>Wednesday, Sep 21</b>		
		<b>Special Topics</b>
9.00-9.45	Rene Wittmann (Fribourg)	An effective DFT for active particles
9.45-10.30	Roland Roth (Tübingen)	FDFTW
10.30-11.00		<i>Coffee Break</i>
11.00-11.45	Bob Evans (Bristol)	What is the Ornstein-Zernike Equation for the Electron Liquid?
11.45-12.30	Matthieu Marechal (Erlangen)	FMT in 2D: non-circular particles and curved surfaces
12.30		<i>Closing remarks</i>