



Workshop sponsored by ERC Project
“DROEMU. Droplets and Emulsions: Dynamics and Rheology”

“Multiphase Physics at the micro- and nano-scales”
University of Rome Tor Vergata, Department of Physics, May 16-17 2013
Room U.M. GRASSANO

Thursday 16th May

9.00-9.45: N. Willenbacher Engineering the Stability and Flow properties of Suspensions – Recent Advances and Developments (Part (a))

9.45-10.30: J. Harting Simulations of soft matter interfaces (Part (a))

10.30-11.00: Coffee Break

11.00-11.45: B. Andreotti Dense Suspensions of Amorphous Materials

11.45-12.30: F. Varnik Thermal fluctuations in multiphase lattice Boltzmann methods

12.30-13.30: Lunch

13.30-14.15: P. Tabeling Microfluidics around 1micrometer: Local Velocity measurements (part (a))

14.15-15.00: J.C. Baret Microfluidics for droplet manipulation: from biotechnology applications to fundamentals of monodisperse emulsion manipulation

15.00-15.45: V. Garbin Interactions between colloidal particles at fluid-fluid interfaces

15.45-16.15: Coffee Break

16.15-17.00: M. Chinappi Superhydrophobic surfaces: stability of the Cassie-Baxter state and its effect on liquid water slippage (Part (a))

17.00-17.45: F. Toschi:Lattice-Boltzmann for suspensions hydrodynamics: the method (Part (a))



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Friday 17th May

9.00-9.45: B. Andreotti From non-Brownian to Brownian suspensions

9.45-10.30: V. Garbin Nanoparticles at fluid-fluid interfaces: self-assembly, stability and disassembly

10.30-11.00: Coffee Break

11.00-11.45: N. Willenbacher Engineering the Stability and Flow properties of Suspensions – Recent Advances and Developments (Part (b))

11.45-12.30: F. Toschi Lattice-Boltzmann for suspensions hydrodynamics: mesoscopic blood and rigid particles modelling

12.30-13.30: Lunch

13.30-14.15: J. Harting Simulations of soft matter interfaces (Part (b))

14.15-15.00: M. Chinappi Superhydrophobic surfaces: stability of the Cassie-Baxter state and its effect on liquid water slippage (Part (b))

15.00-15.45: F. Varnik Recent applications of the fluctuating multiphase lattice Boltzmann method: Theory versus simulation

15.45-16.15: Coffee Break

16.15-17.00: J.C. Baret Microfluidics & Emulsions: Dynamics of stabilisation and ageing processes

17.00-17.45: P. Tabeling Microfluidics around 1micrometer: Local Velocity measurements (part (b))