

**Dynamics of passive and active particles: transport and collective phenomena**  
**5-6 Dec. 2013, Lab. J.A. Dieudonné, Nice**

**Long Talks (40+5 min.)**

- I. Aranson** (Argonne National Laboratory) *Living liquid crystals*  
**G. Ausias** (Univ. Bretagne-Sud) *Rheological modeling of carbon nanotube suspensions with tube-tube interactions*  
**G. Boffetta** (Univ. di Torino) *Clustering of motile phytoplankton in turbulence*  
**G. Bouchet** (Univ. de Aix-Marseille) *The motion of solid spherical particles falling in a cellular flow field at low Stokes number*  
**E. Clément** (Univ. Pierre et Marie Curie) *Rheology and organization of bacteria suspensions*  
**G. Gauthier** (Univ. Paris-Sud) *Particle pressure in sheared non-Brownian suspensions*  
**R. Golestanian** (Univ. of Oxford) *Dynamic organisation of active colloids: a few examples*  
**G. Gompper** (Forschungszentrum Jülich) *Dynamic structure formation in systems of active spheres, rods, and flagella*  
**H. Stark** (TU Berlin) *From swimming in Poiseuille flow to collective motion of active particles*  
**W. Zimmermann** (TU Bayreuth) *Particles in Fluids: Cross-stream migration, orientation and swimming.*

**Short Talks (20+5 min.)**

- L. Barberis** (Univ. Nacional de la Plata) *Metric and topological interactions: some quantifiable similarities and differences*  
**J. Bec** (Observatoire de la Côte d'Azur) *Clustering, fronts, and heat transfer in turbulent suspensions of heavy particles*  
**F. Blanc** (Univ. Nice Sophia Antipolis) *Tunable falling velocity of a dense ball in oscillatory cross-sheared suspensions*  
**O. Chepizhko** (Univ. Nice Sophia Antipolis) *Active particles in heterogeneous media*  
**R. Grossmann** (PTB) *Derivation of a hydrodynamic theory for the collective motion of self-propelled particles*  
**H. Homann** (Observatoire de la Côte d'Azur) *Turbulent transport - size matters*  
**E. Lemaire** (Univ. Nice Sophia Antipolis) *Viscosity of a suspension of spinning particles*  
**E.-W. Saw** (Observatoire de la Côte d'Azur) *Extreme relative velocities between droplets in turbulent airflow*  
**S. Weitz** (TU Bayreuth) *Shape matters: elongated bacteria spread faster*

05 December		06 December	
09:15	Registration + Coffee	09:30	Ausias
09:45	Welcoming	10:15	Barberis
09:50	Stark	10:40	Bec
10:35	Gauthier	11:05	Coffee break
11:20	Coffe Break	11:25	Aranson
11:40	Gompper	12:10	Blanc
12:25	Boffetta	12:35	Saw
13:10	Lunch	13:00	Lunch
14:30	Clément	14:15	Golestanian
15:15	Weitz	15:00	Chepizhko
15:40	Homann	15:25	Coffe break
16:05	Coffe Break	15:40	Bouchet
16:25	Lemaire	16:25	Grossmann
16:50	Zimmermann	<b>End at 16:50</b>	
<b>End at 17:35</b>			