

Microswimmers – From Single Particle Motion to Collective Behaviour

Summer School of the DFG SPP 1726 “Microswimmers”, 21 – 25 September 2015

Location: Forschungszentrum Jülich GmbH, Wilhelm-Johnen-Str., 52425 Jülich, Germany, Zentralbibliothek / Central Library (Building 04.7, Auditorium / Lecture Hall)

	Monday, 21.09.2015*	Tuesday, 22.09.2015	Wednesday, 23.09.2015	Thursday, 24.09.2015	Friday, 25.09.2015
	07:45 h: Bus transfer				
	08:30 h: Registration				
	09:00 h: Opening Remarks	07:45 h: Bus transfer	07:45 h: Bus transfer	07:45 h: Bus transfer	07:45 h: Bus transfer
9:00-10:00 h	Mesoscale Hydrodynamics A2 (R. G. Winkler, FZ Jülich)	Self-Propelled Droplets C4 (R. Seemann, U Saarbrücken)	Bacteria B2 (K. Drescher, MPI Marburg)	Swimming Near Surfaces D4 (J. Elgeti / G. Gompper, FZ Jülich)	Magnetotactic Bacteria B5 (S. Klumpp, MPI Potsdam)
10:00-11:00 h	Statistical Mechanics of Active Systems A1 (D. Marenduzzo, U Edinburgh)	Sperm Chemotaxis I B1 (U. B. Kaupp, FZ caesar, Bonn)	Chirality in the motion of microswimmers D3 (H. Löwen, U Düsseldorf)	Nanomotors C5 (P. Fischer, MPI Stuttgart)	Shapes of deformable particles moving at low Reynolds number C7 (J. Kierfeld, TU Dortmund)
11:00-11:30 h	Coffee Break				
11:30-12:30 h	Vicsek Model A3 (F. Ginelli, U Aberdeen)	Sperm Chemotaxis II B1 (L. Alvarez, FZ caesar, Bonn)	Swimming in External Fields D7 (H. Stark, TU Berlin)	Trypanosomes B4 (M. Engstler, U Würzburg)	Light-Driven Hydrogel Microswimmers E3 (A. Mourran, RWTH Aachen)
12:30-13:00 h	Discussion and Break				Closing Remarks
13:00-14:00 h	Lunch				
14:00-15:00 h	Self-Thermophoretic Swimming C3 (K. Kroy / F. Cichos, U Leipzig)	Collective behavior of active Brownian particles D1 (T. Speck, U Mainz)	Chlamydomonas for Physicists B3 (M. Polin, U Warwick)	Bacterial surface motility E2 (B. Maier, U Cologne)	13:45 h: Bus transfer
15:00-16:00 h	Self-diffusiophoresis C1 (M. N. Popescu, MPI Stuttgart)	Active Brownian Rods D2 (F. Peruani, U Nice)	Bacterial Suspensions under Flow D8 (E. Clement, ESPCI Paris)	Synchronization D6 (B. M. Friedrich, MPI Dresden)	
16:00-16:30 h	Coffee Break				
16:30-17:30 h	Propulsive Colloids – Experimental Consideration C2 (J. Howse, U Sheffield)	Collective Cell Migration E1 (J. O. Rädler, LMU Munich)	Active Brownian Motion in Complex Environments D5 (C. Bechinger, U Stuttgart)	Tubular Micro- and Nanojets C6 (S. Sánchez, MPI Stuttgart)	
	17:45 h: Bus transfer	18:00 h: Poster Session	18:00 h: Dinner	17:45 h: Bus transfer	
		20:00 h: Bus transfer	20:30 h: Bus transfer		

Theory and Concepts	Biological Microswimmers	Artificial Microswimmers	Collective Behaviour	Related Areas
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*the lectures and breaks on Monday morning start 15 minutes later

Last Update: 09/11/2015