

	Tuesday, July 12	Wednesday	Thursday	Friday	Saturday
8:30-10	Wilson Poon Introduction to Microswimmers I	Wilson Poon Introduction to Microswimmers II	Mike Cates Active Brownian Colloids I	Mike Cates Active Brownian Colloids II	Kenny Breuer The role of cell "personality" in the motility of E. coli in complex fluids
10-10:30	Coffee break				
10:30-12	Cristina Marchetti Hydrodynamics of Active Matter I	Cristina Marchetti Hydrodynamics of Active Matter II	David Saintillan Collective motion in confinement	Olivier Theodoly Leucocyte migration mechanisms during immune response	John Brady Forces, Stresses and the Thermodynamics of Active Matter
12-1:30	lunch				Ziebert30
1:30-2:15	Knut Drescher Biophysics of Bacterial Biofilms	Takuji Ishikawa Deformation and Motility of Cells	Cécile Cottin Experimental studies of suspensions of active particles	Paulo Arratia A Worm's Tale: Swimming in Complex Fluids	Free afternoon
2:20-3:05	Xavier Trepat Mechanical guidance of collective cell migration and invasion	Igor Aronson Manipulating bacterial trajectories	Christian Wagner Intercultural seminar: International career perspectives for PhD students	Lindner 30 Lushi	
3:05-3:30	Coffee break				
3:30-4	Schnyder Uspal	Peshkov Kurzhaler		Kusters Levis	
4:00-6		Poster			

	Monday, July 18	Tuesday	Wednesday	Thursday	Friday
8:30-10	Eric Lauga Theoretical description of micro-swimmers	Martin Falcke Concentration profiles of actin-binding molecules in lamellipodia Chaouqi Misbah Amoeboid swimming of cells	Eric Shaqfeh I: The Bretherton Problem for a Vesicle and Its Relation to Flow-Induced Poration II: Accelerating Blood Simulations: a Coarse-Grained Theory to Understand Cellular Suspensions	Jens Harting Mesoscale simulation methods II	
10-10:30	Coffee break				
10:30-12	Franziska Lautenschläger Cell motility	Alexander Morozov Nature of collective motion in dilute suspensions of self-propelled particles	Thomas Podgorski experiments on single vesicles in capillary flow Christian Wagner Clustering of red blood cells	Jens Harting Mesoscale simulation methods II	
12-1:30	lunch				
1:30-2:15	Roberto di Leonardo Bacteria powered micro-devices	Uwe Thiele Gradient dynamics models for films of complex fluids and beyond - dewetting, line deposition and bacterial carpets	Petia Vlahovska Theory of red blood cell dynamics in microcirculatory flows I	Tony Wen Hann-Sheu Stress Field on Deformable Cell Membrane.	Free day

2:20-3:05	Ahmed Mouran Swimming of morpho-elastic ribbon helix	Mike Shelley Modeling active assemblies of microtubule and motor proteins	Petia Vlahovska Theory of red blood cell dynamics in microcirculatory flows II	Peyla 30 Douarche 30	
3:05-3:30	Coffee break			Poster+ Coffee break	
3:30-4	John30	Farutin Yan	Abaurea Khoromskaia		
4:00-6	Poster				

POSTERS LIST

Name	First name	Institution	Title
Agrawal	Mayank	University of Michigan Ann Arbor	Finite clustering behavior of passive particles when mixed with self-propelled particles or contact-induced active particles
Aouane	Othmane	Forschungszentrum JÄ¼lich GmbH	Hydrodynamic pairing of vesicles in a confined flow
Aoun	Laurene	Inserm U1067	Leukocyte motility: from swimming to crawling to 3D migration
Aplinc	Jure	University of Ljubljana, Faculty of Mathematics and Physics	Generation of umbilic defects and umbilic defect lattices with nematic microfluidics
Baigent	Fraser	University of Strathclyde, Glasgow	Computational simulation of nanoscale transport by enzyme-vehicles
Berg	Maxime	CNRS	Modeling momentum and mass transport in brain microvascular networks
Bet	Bram	Utrecht University	Efficient shapes for microswimming
Bregar	Anja	University of Ljubljana, Faculty of Mathematics and Physics	Refraction on a flat interface of an optically anisotropic metamaterial
Brosseau	Quentin	Brown University	Quincke rotation of prolate ellipsoids
Burkholder	Eric	California Institute of Technology	Effective diffusivity in active Brownian suspensions
Chachanidze	Revaz	Aix-Marseille University/Saarland University	Margination of blood cells
Claveria	Viviana	Saarland University	Self margination in sickle cell anemia blood flow
Codina	Joan	Universitat de Barcelona	Emergent interactions in non-equilibrium suspensions
Daddimoussaider	Abdallah	Bayreuth University	Diffusion nearby elastic cell membranes
Dauparas	Justas	Univ. Cambridge	Flagellar flows around bacterial swarms
Daieff	Marine	ESPCI Paris	Micro-helices : shape and deformation under flow
Das	Debasish	Univ. California	Boundary element simulations and small deformation theory for electrohydrodynamics of drops
Degonville	Maximilien	IRPHE	Oblate to prolate transition of a vesicle in a wall-bounded shear flow
Dietrich	Kilian	ETH ZÄ¼rich	Janus microswimmers at oil-water interfaces
Duchene	Charles	ESPCI-UniversitÄ© Paris Diderot	Flow properties of monoclonal antibody solutions: application to injection of viscous solutions with medical devices

Fialho	Ana	University of Edinburgh	Spontaneous rotation in active gel droplets with surface anchoring
Figueroamorales	Nuris	ESPCI Paris, France	Swimming dynamics of E. coli bacteria from 3D tracking
Foertsch	Andre	University of Bayreuth	Cross-stream migration of sedimenting soft particles in vertical flows
Gauquelin	Estelle	Université Paris Diderot	Emergence of cell migration patterns induced by mechanical constraints - The role of proliferation
Guckenberger	Achim	Bayreuth Univ.	Ultrasound-triggered margination of microbubbles for targeted drug delivery
John	Thomas	Universität des Saarlandes	A model for subdiffusive particles motion in mucus
Kihm	Alexander	Saarland University	Dynamics of single RBCs flowing through microcapillaries
Kirkegaard	Julius	University of Cambridge	Colonial Choanoflagellates
Kos	Ziga	Faculty of Mathematics and Physics, University of Ljubljana	Controlled generation of topological defects in nematic microfluidic environment
Kuron	Michael	Universität Stuttgart	Probing the Dynamics of Self-Electrophoretic Swimmers using Lattice-Boltzmann
Laumann	Matthias	Universität Bayreuth	Cross-streamline migration of soft and asymmetric particles in oscillatory shearflow
Levis	Demian	University of Barcelona	Synchronization and collective motion in systems self-propelled agents
Liebchen	Benno	University of Edinburgh	Clustering and pattern formation in chemorepulsive active colloids
Liu	Yanan	ESPCI	The Dynamics of Semiflexible Actin Filament in Simple Shear Flow
Luo	Xuan	Aix-Marseille Université	In vitro quantitative study of leukocyte recruitment
Martin	Matthieu	CNRS and Univ. Grenoble	Focalization and diffusion of active matter
Matsunaga	Daiki	University of Oxford	Orientation change of a single red blood cell during sedimentation
Merlo	Adlan	CNRS INPT	Study of the phase separation effect in capillary-size micro-channels
Naitouhra	Abdessamad	University Joseph Fourier	Shear-thinning and shear-thickening of a confined suspension of vesicles
Najafi	Javad	University of Saarland	Swimming Bacillus subtilis with different number of flagella
Navarro	Eloy	Universitat de Barcelona	Self-assembly scenarios in actuated colloidal suspensions
Nix	Stephanie	Akita Prefectural University	Capsule lateral migration: applications to blood flow
Ortlieb	Levke	Universität des Saarlandes	Statistics of tracer particles in algae suspensions

Paliwal	Siddharth	Utrecht University	Vapor-liquid coexistence and Interfaces in attractive Self-Propelled Particles
Patch	Adam	Syracuse University	Kinetics of motility-induced phase separation and swim pressure
Peshkov	Anton	Universidad de Chile	Rheology of active granular matter
Pradillo	Gerardo	Brown University	Electrohydrodynamic rotation of a confined droplet
Schakenraad	Koen	Lorentz Intiture	The role of anisotropy in cellmorphology
Schnyder	Simon	Kyoto University	A dynamical phase transition of crawling cells from coherent motion to clustering driven by the shape of the cells
Seyrich	Maximilian	TU Berlin	Statistical inference of bacterial chemotactic strategies using Kramer-Moyals coefficients
Trinschek	Sarah	Münster Univ.	Long-wave modelling of osmotic spreading of biofilms
Uspal	William	Max Planck Institute for Intelligent Systems	Guiding catalytically active particles with chemically patterned surfaces
Vesperini	Doriane	UTC	Deformability and size based capsule sorting
Wagner	Christian	Saarland University	A force-velocity relationship of agellar oscillations
Wu	Hao	CNRS/Univ. Grenoble	Amoeboid swimming in a microfluidic channel
Yan	Wen	California Institute of Technology	The force on a boundary in active matter
Young	Yuan	New Jersey Institute of Technology	Gating of a mechanosensitive channel due to fluid shear stress