Programme: SPP 1726: Microswimmers
Annual Meeting 23-24 May 2019

23 May 2019

08.00 Departure from Ibis Hotel

08.30-09.00: Registration

09.10-09.15: Opening

09.15-10.55: Session 1

1)	Babak Vajdi Hokmabad	Stop and go droplets.
18)	Nadir Möller	pH driven Modular Micro swimmers - State and prospects.
3)	Narinder Narinder	Dynamics of Self-propelled Particles in Viscoelastic Fluid under various Geometric Constraints.
4)	Peer Fischer	Do enzymes show enhanced diffusion when they are catalytically active?
5)	Frank Cichos	Controlling active particle motion by light.

10.55-11.20: Coffee Break

11.20-13.00: Session 2

6)	Debarati Sarkar	A minimal Model for fluid and cohesive motile cell colonies.
7)	Vitali Telezki	Magnetotactic bacteria.
20)	Pooja Arya	Living clusters of light driven colloidal microswimmers.
22)	Florian Dittrich	Phase behaviour of active Brownian particles.
10)	Alexander Sukhov	Resonant motion of triangular magnetocapillary swimmers.

13.00-14.20 Lunch

14.20-15.20 Session 3

11)	Michael Kuron	Squirmers in Visco(elastic) Media: Swimming close to and far away from Boundaries.
12)	Jan Hansen	SpermQ – A Simple Analysis Software to Study Ciliary Beating and Sperm Steering.
13)	Luis Alvarez	The Steering Gates of Sperm.

15.20-16.20 Coffee Break + Poster session

16.20-17.40 Session 4

14)	Christian Wischnewski	Swimming by hysteretic shape transitions of swelling elastic disks.
15)	Christian Hoell	Statistical theory of microswimmer suspensions: Collective orientational ordering through hydrodynamic interactions.
16)	Shubhadeep Mandal	MPCD modeling of nematic liquid crystals.
17)	Katerina Dvorackova	Non-linear mechanical response of a soft microgel helix.

18.00 – 20.30 Dinner at Caesar

20.30 Bus to Ibis

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08.30: departure from Ibis hotel

09.15-10.35 Session 5

2)	Tao Huang	Exclusion phenomena of light-driven Janus Ag/AgCl microswimmers in a dense colloidal matrix.
25)	Judit Clopes Llahi	Swimming behavior of squirmer polymers.
30)	Nathalie Jurisch-Yaksi	Studying the regulation and coordination of ciliary beating.
9)	Benjamin Friedrich	Synchronization of cilia and flagella.

10.35-11.00 Coffee break

11.00-12.20: Session 6

21)	Friedrich Striggow	Sperm-driven micromotors in oviduct fluid and highly viscous media.
23)	Felix Rühle	Collective Dynamics of Bottom-Heavy Squirmers.
24)	Julian Reichert	Transport coefficients of dense active Brownian particles.
19)	Sergi Roca Bonet	Dimeric and trimeric colloidal swimmers driven by thermophoresis.

12.20-12.25 Conference Photo

12.25-14.00 Lunch

14.00-12.20 Anouncements/Organizational

14.20-15.20 Session 7

26)	Mihail Popescu	Mean-field models for collective dynamics of chemically active particles.
28)	Mojdeh Heidari	Impact of brush/water interface on self-propulsion of Janus particles.
29)	Linlin Wang	Interaction studies and applications of light driven titania microswimmers.

15.20-15.50 Final discussion and concluding remarks

15.50 Departure

List of Posters

1)	Thomas Palberg	Modular microswimming: state of the art and future prospects.
2)	Yara Alsaadawi	??
3)	Anna Eichler-Volf	Polymer nanorod-like microswimmers with controllable tip shape.
4)	Kai Qi	Enhanced rotational diffusion of squirmers in viscoelastic fluids.
5)	Sarah Mohammadinejad	Magnetotactic bacteria: Swimming and reorientation mechanism.
6)	Daniel Geiß	Brownian Molecules Formed by Delayed Harmonic Interactions.
7)	Corinna Maaß	Active droplet swimmers.
8)	Klaus Kroy	Janus swimmers in heterogeneous activity fields.
9)	Julian Reichert	Transport coefficients of dense active Brownian particles.
10)	Nicola Söker	Properties of active Brownian particles under inhomogeneous activity.
11)	Sergi Roca	Microswimmers self-propelled by thermophoresis.
12)	Hendrik Ender	Marangoni swimming at a fluid-fluid interface.
13)	Priyanka Sharan	Microfluidic fabrication of soft polymer particles.
14)	Juliane Simmchen	Galvanic replacement reactions to propel Janus particles.
15)	Oliver Jung	Design of a snap buckling microgel.
16)	Aitor Martin Gomez	Active Brownian filaments in dilute solutions.
17)	Anton Solovev	Hydrodynamic interactions in cilia carpets.
18)	Felix Bachmann	Dynamics of Rigid Magnetic Micropropellers.
19)	Nadir Möller	Role of pH in Microswimming.
20)	Denis Botin	Measuring Colloidal Dynamics in Turbid Suspensions.
21)	Ana-Suncana Smith	Microswimming at interfaces.
22)	Jan Hansen	SpermQ – A Simple Analysis Software to Comprehensively Study Ciliary Beating and Sperm Steering.
23)	Shubhadeep Mandal	MPCD modeling of nematic liquid crystals.
24)	Svetlana Santer	Living clusters of light-driven colloidal microswimmers.
25	Sebastian Rode	Sperm motility in modulated microchannels
26	Gerrit Vliegenthart	Filamentous Active Matter: Band Formation, Bending, Buckling, and Defects