
GRK 1558
Workshop 2018

GRK1558
research training group

TU Berlin
July 23 & 24, 2018

Monday, July 23

9:00 – 9:30		Henning Reinken <i>Asymmetric pattern formation in microswimmer suspensions subjected to orienting external fields</i>
9:30 – 10:00		Richard Schwarzl <i>The force extension relation of polypeptides – pitfalls of fitting standard polymer models to AFM results</i>
10:00 – 10:30		Lara Greten <i>How to find a Bump State in a discrete chemical system</i>
10:30 – 11:00	Coffee break	GRK-Lounge (ER 234)
11:00 – 11:30		Felix Rühle <i>Squirmer microswimmers under gravity</i>
11:30 – 12:00		Shahajhan Sorathiya <i>Collective dynamics of Squirmer in Poiseuille flow: Channel Enrichment and Global Polar Order</i>
12:00 – 12:30		Maximilian Seyrich <i>Bacterial Chemotaxis: From Individual to Collective Dynamics</i>
12:30 – 14:00	Lunch	Mensa
14:00 – 14:30		Zahra Alirezaei <i>Simultaneous cell tracking and visualization of flagellar dynamics of Pseudomonas putida</i>
14:30 – 15:00		Setareh Dolati <i>Force density relation in lamellipodial protrusion</i>
15:00 – 15:30		Pavel Buran <i>Mechanism of underdrive pacing for low-energy defibrillation</i>
15:30 – 16:00	Coffee break	GRK-Lounge (ER 234)
16:00 – 16:30		Vanessa Dimchev <i>Molecular mechanisms driving actin-based protrusions</i>
16:30 – 17:00		Christopher Wächtler <i>Thermodynamics of self-oscillation at the example of the electron shuttle</i>
17:10	Discussions with GRK students	GRK-Lounge (ER 234)
18:00	Dinner Party	Café Hardenberg

Tuesday, July 24

9:30 – 10:00

Sebastian Restrepo

Electron pumping and adiabatic master equation

10:00 – 10:30

Christoph Redlich

Time dependent correlation dynamics and stochastic bifurcations in high- β quantum-dot micropillar lasers

10:30 – 11:00

Manuel Kraft

Special points in two-photon scattering

11:30 – 11:40

Closing Remarks

11:40

Meeting of project leaders

ER 325