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GRK 1558  
Workshop 2015

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**GRK1558**  
*research training group*

TU Berlin  
July 20 & 21, 2015

## Monday, July 20

9:00 – 9:30		<b>Marius Hintsche</b> <i>Chemotaxis of Pseudomonas putida towards aromatic hydrocarbons</i>
9:30 – 10:00		<b>Oliver Pohl</b> <i>Inference of the chemotaxis strategy of E. Coli and Pseudomonas Putida using Kramers-Moyal coefficients</i>
10:00 – 10:30		<b>Setareh Dolati</b> <i>Modeling of single cell migration; gel cytoskeleton and active dynamics of the leading edge</i>
10:30 – 11:00	Coffee break	GRK-Lounge (ER 234)
11:00 – 11:30		<b>Dirk Kulawiak</b> <i>Modeling cell movement on heterogeneous substrates</i>
11:30 – 12:00		<b>Johannes Blaschke</b> <i>Simulating the swimming dynamics of Trypanosoma brucei in crowded environments</i>
12:00 – 12:30		<b>Johann Hansing</b> <i>Diffusion in Charged Polymer Gels</i>
12:30 – 14:00	Lunch	Mensa
14:00 – 14:30		<b>Lina Jaurigue</b> <i>Noise effects in semiconductor passively mode-locked systems</i>
14:30 – 15:00		<b>Mirco Kolarczik</b> <i>Carrier diffusion dynamics in a coupled 0D-2D semiconductor system under consideration of Crossed Excitons</i>
15:00 – 15:30		<b>Anke Zimmermann</b> <i>Two dimensional optical spectroscopy of Coulomb coupled colloidal quantum dots</i>
15:30 – 16:00	Coffee break	GRK-Lounge (ER 234)
16:00 – 16:30		<b>Josua Grawitter</b> <i>Dynamical density functional theory for mixtures of active and passive colloids</i>
16:30 – 17:00		<b>Rodrigo Lugo-Frías</b> <i>Shear-induced oscillatory states in binary mixtures of hard rod-like liquid crystals</i>
17:10	Discussions with GRK students	GRK-Lounge (ER 234)
18:00	Dinner Party	Café Hardenberg

## Tuesday, July 21

9:00 – 9:30		<b>Arzu Yener</b>
	<i>Double layer formation of driven magnetic Janus like particles</i>	
9:30 – 10:00		<b>Philipp Kanehl</b>
	<i>Dense Colloidal Suspensions in Microfluidic Channel Flow</i>	
10:00 – 10:30		<b>Maurice Maurer</b>
	<i>Collective Motion of Spherical Microswimmers in a Quasi-2D Geometry</i>	
10:30 – 11:00	Coffee break	GRK-Lounge (ER 234)
11:00 – 11:30		<b>Robert Großmann</b>
	<i>Collective Motion of Self-Propelled Particles with Directional Reversal</i>	
11:30 – 12:00		<b>Maryam Khatami</b>
	<i>Self-propelled Particles under Strong Confinement</i>	
12:00 – 12:10	Closing Remarks	
12:10	Meeting of project leaders	ER 325