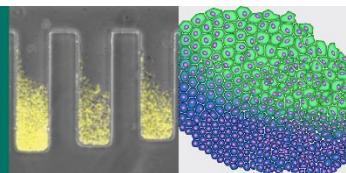


SOFT MATTER DAY

organized by the Peter Debye Institute for Soft Matter Physics



LIST OF POSTERS

- Dynamics of ellipsoidal Janus swimmers
Gordei Anchutkin, Viktor Holubec, Frank Cichos
- Infrared photothermal heterodyne imaging and spectroscopy
Arthur Markus Anton, Frank Cichos
- Analysis of single molecules in an optical feedback system
Benjamin Fanselow, Frank Cichos
- Control of active particles using reinforcement learning
M Asif Hasan, Frank Cichos
- Microfluidic droplet generation
Akshay Kallikkunnath, Arthur Markus Anton, Frank Cichos
- Opto-thermal assembly of three-dimensional photonic crystals
Diptabrata Paul, Desmond Quinn, Frank Cichos
- Manipulation of bio-molecules and nanoparticles by depletion interactions
David J. Simon, Tobias Thalheim, Frank Cichos
- Ballistic Hot Brownian Motion
Xiaoya Su, Frank Cichos
- Concentration-dependent elongation rates of alpha-synuclein fibrils in a thermophoretic trap
Stephan Sydow, Tobias Thalheim, Markus Anton, Benjamin Fanselow, Frank Cichos
- Measuring temperature on the nanoscale using the phase transition of a liquid crystal
Gordei Antchutkin, Benjamin Fanselow, Desmond Quinn, Lisa Rohde, Xiaoya Su, Tobias Thalheim, Frank Cichos
- Physical reservoir computing with noisy microswimmers
Xiangzun Wang, Frank Cichos
- Photoswitchable sphingolipids for optical control of lipid microdomains
Nina Hartrampf, Samuel M. Leitao, Nils Winter, Henry Toombs-Ruane, James A. Frank, Petra Schwille, Dirk Trauner, Henri G. Franquelim
- Targeting phase separation on membranes using fatty acid-functionalized DNA origami
Rayehe Mamaghaniyeh, Subhasini Singh, Henri G. Franquelim

- Stochastic mutations in spatially confined bacterial populations
Christian Westendorf, Birgit Koch, Joao Ascensao, QinQin Yu, Oskar Hallatschek
- Collapse dynamics of the helix–coil transition in polyalanine
Maximilian Conradi, Henrik Christiansen, Wolfhard Janke, Suman Majumder
- Fatty tissue modulates cancer cell mechanics
Eliane Blauth, Hans Kubitschke, Jenny Leopold, Benjamin Wolf, Dorit John, Michael Höckel, Peter Kovacs, Matthias Blüher, Jürgen Schiller, Bahriye Aktas, Josef A. Käs
- AFM-based microrheological investigation of primary tumors
Philip Friedrich, Emily Streubel, Josef A. Käs
- Observing fusion between multicellular 3D structures using contrasting stains
Mario Merkel, Dipanwita Dutta, Katherine Kerr, Josef A. Käs
- Cancer cell unjamming and jamming as prerequisite for the formation of primary and metastatic tumors
 Josef Käs, Igor Sauer, Salvador Rivera, Kilian Roth
- Force-free ratcheting in static activity landscapes
Constantin Rein, Martin Kolár, Klaus Kroy, Viktor Holubec
- Irreversible mesoscale fluctuations herald the emergence of dynamical phases
Thomas Suchanek, Klaus Kroy, Sarah A. M. Loos
- Propulsion of magnetic beads asymmetrically covered with DNA origami appendages
 Christoph Pauer, Aron Venczel, Mihir Dass, Tim Liedl, Joseph Tavaroli
- Research and Transfer Center for Bioactive Matter
Susanne Ebitsch, Heinz-Georg Jahnke, Frank Cichos, Tilo Pompe
- DNA mold-based fabrication of silver nanostructures
Christoph Hadlich, Ulrich Kemper, Ralf Seidel
- Ultrafast single-molecule twist measurements reveal the energy landscape for R-loop formation by a CRISPR-Cas effector complex
Dominik J. Kauert, Julene Madariaga-Marcos, Marius Rutkauskas, Alexander Wulfken, Inga Songailiene, Tomas Sinkunas, Virginijus Siksnys, Ralf Seidel
- Insight on the energy landscapes of R-loop formation by CRISPR-dCas9 from ultrafast twist measurements
Julene Madariaga-Marcos, Fabian Welzel, Dominik J. Kauert, Ralf Seidel
- Constrained ion conductivity in smallest polymer aggregates
 Alaa Hassan, Wing Kit Or, Martin Tress
- H-bonding in supramolecular networks
 Alaa Hassan, Martin Tress
- Interaction of textile materials with living cells for lung implants
Kresten Singer, Jonas Naumann, Mareike Zink