

## INM-KOLLOQUIUM

“DYNAMIC MATERIAL SYSTEMS: FLIPS AND COLLECTIVE MICROROBOTS”

[Dr. Wendong Wang](#)

Max Planck Institute for Intelligent Systems, Germany

[Mittwoch, 01.08.2018, 11:00 Uhr](#)

INM, Leibniz-Saal, Campus D2 5

Gastgeber: Dr. Jiayi Cui, Leiter Schaltbare Mikrofluidik

Living systems are dynamic and programmable: they operate far from thermodynamic equilibrium, and they process information stored in molecules. In this talk, I will show my work on ferrofluid-infused porous surface, a dynamic material capable of various functions across multiple length scales, including controlling colloids, manipulating droplet flows, switching adhesions, and pumping liquids (*Nature* 559, 77-82 (2018)). By combining both dynamic and programmable aspects of material design into a single material system, I will then show the dynamic and programmable self-assembly of micro-rafts at air-water interface (*Sci. Adv.* 3, e1602522 (2017)). Finally, I will briefly discuss the development of life-inspired dynamic material systems in the future.

[Wir laden 15 Minuten vor Beginn zu einem Get-together mit dem Referenten ein.](#)