

## DY 65: Talk T. Speck

Time: Thursday 15:00–15:30

Location: BH-N 243

**Invited Talk**                      DY 65.1   Thu 15:00   BH-N 243  
**Towards a thermodynamics of active particles** — •<sub>THOMAS</sub>  
SPECK — Johannes Gutenberg-Universität Mainz

I will give a brief overview on the theoretical modeling of autonomous self-propelled particles with directed motion, which colloquially go by the name “active particles”. Being driven away from thermal equilib-

rium, questions like the physical meaning of entropy production arising from breaking time-reversal symmetry and consistency with thermodynamic principles have received increasing attention. I will discuss the situation for active Brownian particles, a minimal model system of active particles combining directed motion with volume exclusion, in the context of stochastic thermodynamics.