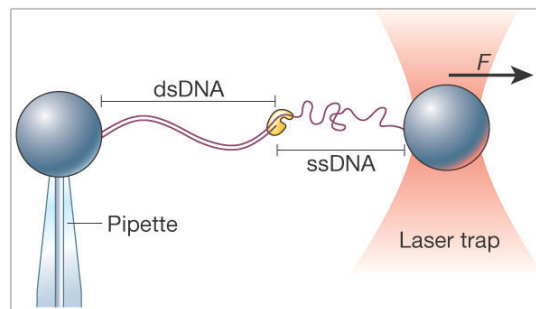


# Hauptseminar Theorie kondensierter Materie

WITH STUDENT TALKS IN GERMAN OR ENGLISH



## POSSIBLE TOPICS INCLUDE:

Systems Biology; Scaling in Biology; Networks; Game Theory; Population Dynamics; Population Genetics; Physics of DNA; Proteomics; Experimental Cell Biophysics

Self-Propelled Particles; Swimming at Low Reynolds Numbers; Simple Polymer Models; Domainwalls, Solitons and Membranes; Granular Temperature

Percolation; TASEP; Random Matrix Theory; Statistical Inference; Nonlinear Dynamics; Systems with Temporal Delay; Nonequilibrium Fluctuations; Noise Induced Phenomena

## AIM:

The aim of this seminar is twofold. First, to learn some essential background for entering the current debates on hot topics in Condensed Matter Theory, Statistical Physics and Theoretical Biophysics. Second, to give participants a chance to improve urgently needed but rarely taught soft skills.

## COORDINATES:

Thursday 14:00–15:00 (starting 07.04.11), kleiner Seminarraum, ITP

## USEFUL BACKGROUND:

Theoretical Mechanics, Statistical Mechanics, Biophysics