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