

Prof. Dr. F. Cichos  
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UNIVERSITÄT LEIPZIG  
Fakultät für Physik und Geowissenschaften

# Physik-Kolloquium

**Dienstag, den 12.04.2011, 17:00 Uhr**

**Prof. Dr. Ramin Golestanian**

Department of Physics and the Rudolf Peierls Centre for Theoretical Physics,  
St. Cross College, Oxford

## **From Microswimmers to Nanoswimmers: The Role of Fluctuations**

The directed propulsion of small scale objects in water is problematic because of the combination of low Reynolds numbers and strong thermal fluctuations at these length scales. We introduce simple prototypes of model low-Reynolds-number swimmers and examine their physical properties. We also discuss a number of recent experimental realizations of such devices.

**Ort: Hörsaal für Theoretische Physik, Linnéstraße 5**

**Alle Teilnehmer sind ab 16:30 Uhr zu Kaffee und Kuchen in die Aula eingeladen.**