

DIESE WOCH

PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 14.05.2014, 16 Uhr c.t.
Großer Hörsaal, Raum _0.111,
Max-von-Laue-Str. 1

Prof. Dr. Roland Roth
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*„Statistical Physics of Soft and Biological Matter:
Interplay between Physics and Geometry“*

In many systems of soft matter physics, such as fluids confined in narrow pores or colloidal suspended in a solvent, as well as in biological matter, like proteins in solution, highly confined liquids are of great importance. In these systems the boundary of the system and the liquid, which can be characterized by an interaction potential and the shape of the boundary, result in an interesting and rich interplay between physics and geometry.

In this talk I will first address the question of how thermodynamic quantities of highly confined fluids depend on the shape of the confining boundary. I then apply these ideas to complex problems of soft and biological matter.

Die Dozierenden der Physik

Kolloquium