

ARNOLD SOMMERFELD

CENTER FOR THEORETICAL PHYSICS



Arnold Sommerfeld Lecture Series

Professor Subir Sachdev

Harvard University, USA

Sommerfeld Theory Colloquium:

What can string theory teach us about condensed matter physics?

String theory was originally constructed as a unification of the quantum field theory of elementary particles with Einstein's theory of gravitation. Unexpectedly, it has led to the discovery of new "dualities" which have given us a new perspective on quantum field theories not coupled to gravity. Some of the latter theories are relevant to the strongly-interacting quantum many body problems of condensed matter physics. I will survey some of the challenging open problems associated with condensed matter experiments, and discuss the insights gained from string theory.

Wednesday, February 1, 2012, 16:15 h, Room A 348/349, Theresienstr. 37, LMU

Prof. D. Lüst, Prof. J. von Delft, Prof. W. Zwerger (TUM)