



TRR 80 Sonderseminar

Am Dienstag, den 16. Juli um 16:00 Uhr

spricht

Prof. Dr. Vladimir Dobrosavljevic

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über das Thema

***Landau Theory for Disorder-Driven Metal-Insulator
Transitions in Deformable Media***

Disorder driven metal-insulator transitions have long defied proper understanding, despite representing one of the basic phenomena in solid state physics. Here we provide a broad overview of the available theoretical ideas and methods, as well as the experimental results providing guidance. We then present a new theoretical approach that makes it possible to formulate Landau-like order parameter theory at the saddle-point level, capturing most experimental puzzles. It also allows an investigation of systematic fluctuation corrections, suggesting a finite upper critical dimension, and a formulation of an appropriate Landau-Ginzburg description of spatial correlations currently studied by scanning probes.

Gäste sind herzlich willkommen.

Der Vortrag findet im Seminarraum S-288, Institut für Physik, Universität Augsburg statt.

Gastgeber: Prof. Dr. Liviu Chioncel
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