

Kolloquium des SFB/TR 49 gemeinsam mit Theoretisch-Physikalischem Kolloquium

Donnerstag, den 14.06.2018 um 15:30 Uhr in Raum 46-576

Emergent collective phenomena in many-electron systems

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Condensed matter physics is the physics of solids and liquids (condensed phases of matter). It is the study of the complex behaviour of a large number of interacting particles such that their collective behaviour gives rise to emergent properties. In this talk, we will discuss some interesting quantum condensed matter systems with their intriguing emergent phenomena arising from complexity. We will revisit the Landau paradigm of Fermi liquid theory and hence understand the properties of the non-Fermi liquid systems which cannot be described within the Landau framework. If time permits, as an example of strongly quantum and topological matter, we will also discuss quantum spin liquids and the emergent electromagnetism in such systems.

Gäste sind herzlich willkommen.

Die Dozenten der Theoretischen Physik