THEORETISCHE PHYSIKALISCHES KOLLOQUIUM

Donnerstag, den 28.11.2013

Es spricht:  
Dr. Sebastian Schmidt  
ETH Zürich

zum Thema:  
"Many-body physics with strongly correlated photons on a lattice"

Abstract  
Recent experimental advances in cavity/circuit QED have opened up the possibility to realise novel many-body and non-equilibrium phenomena with strongly correlated photons in coupled qubit-cavity arrays (QCA's). In a QCA, qubits and cavities are arranged on a lattice, such that photons can hop between cavities and locally interact with a qubit leading to the realisation of effective photon-photon interactions. These extended, interacting photonic systems may constitute promising quantum simulators for open systems, which are coupled to multiple (potentially tunable) environments. This talk will give an overview over recent theoretical as well as experimental developments in this emerging field at the interface of quantum optics, condensed matter and electrical engineering.

Raum: 46-576  
Zeit: 15:30 Uhr

Gäste sind herzlich willkommen.

Die Dozenten der Theoretischen Physik