



TRR 80 Sonderseminar

Am Donnerstag, den 14. Juni um 17:30 Uhr

spricht

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über das Thema

***Ultrastrong coupling regime of light-matter interaction:
applications and its quantum simulation***

The state-of-the-art in circuit QED technology has allowed to reach the largest light-matter coupling ever observed, as compared to standard devices of quantum optics such as cavity QED. This new regime is particularly interesting since the coupling strength between a two-level system and a single mode of the electromagnetic field can reach a considerable fraction of the resonator mode. In this sense, the well-known Jaynes-Cummings model breaks down resulting in the quantum Rabi model. In this talk I will present the main features of this model, its applications to ultrafast two-qubit gates, and its quantum simulation.

Gäste sind herzlich willkommen.

Der Vortrag findet im Hörsaal 1003 / Institut für Physik, Universität Augsburg statt.

Gastgeber: Dr. Daniel Braak
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