

WIENER PHYSIKALISCHES KOLLOQUIUM

TU-WIEN - UNIVERSITÄT WIEN

SS 2016

Einladung zum Vortrag von

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Quantum optics with emitters in waveguides

Recent progress in nano-fabrication and atomic physics has allowed to couple atoms (or other emitters) to structured waveguides. In this talk I will report on:(i) a theoretical framework to describe some of those experiments using both a master equation and a path integral approach; (ii) the existence of many-photon bound states in the presence of one emitter; (iii) some techniques to prepare multi-photon states in the waveguide using strong coupling and collective effects.

9. Mai 2016, 17:30 hrs
(ab 17 Uhr Kaffee)

TU Wien-Freihaus,
Wiedner Hauptstrasse 8 – 10
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<http://wpk.univie.ac.at>