Einladung
t zum
FKT-Seminar

Donnerstag, 6. Februar 2014, 14:15 Uhr
Seminarraum PHY 5.0.21

Ass.-Prof. Dr. Sabine Andergassen
Vienna Center for Quantum Science and Technology

“Magnetic field effects on the finite-frequency noise of a Kondo quantum dot out of equilibrium”

Abstract:

We present analytic results for the finite-frequency current noise and the nonequilibrium ac conductance for a Kondo quantum dot in presence of a magnetic field. We determine the line shape close to resonances and show that while all resonances in the ac conductance are broadened by the transverse spin relaxation rate, the noise at finite field additionally involves the longitudinal rate as well as sharp kinks resulting in singular derivatives. Our results provide a consistent theoretical description of recent experimental data for the emission noise at zero magnetic field, and we propose the extension to finite field for which we present a detailed prediction.