



Seminar
Quantendynamik von Nanosystemen im Nichtgleichgewicht

Wintersemester 2010/11
dienstags, 14:00 - 15:30 Uhr
Bibliothek Angewandte Physik

- **26.10.2010:** Hendrik Papenjohann
Introduction on Quantum Noise
- **02.11.2010:** Michael Thorwart
Quantum Measurements
- **09.11.2010:** Stephan Weiss
General Linear Response Theory of Quantum Measurements
- **16.11.2010:** Vittorio Peano (Universität Freiburg)
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- **23.11.2010:** Stephan Weiss
Quantum Limit on Linear Amplifiers: Haus-Caves Theorem
- **30.11.2010:** Maryam Roghani (Universität Freiburg)
Entanglement dynamics of a strongly driven trapped atom
- **07.12.2010:** Peter Nalbach
Linear Response description of a position detector and a voltage amplifier
- **14.12.2010:** Peter Nalbach
Near-quantum limited mesoscopic detectors, back action evasion and noise-free amplification
- **11.01.2010:** Vicente Leyton-Ortega
Input-output formalism of quantum measurements
- **18.01.2011:** Vicente Leyton-Ortega
Back action and Input-Output Theory for driven damped cavities
- **25.01.2010:** Cesar Mujica
Experimental systems for quantum detection

Topics: Review article on Quantum noise, measurement and amplification
(Clerk, Devoret, Girvin, Marquardt, Schoelkopf, Rev.Mod.Phys. **82**, 1155 (2010))