



Sonderforschungsbereich 631
Festkörperbasierte Quanteninformationsverarbeitung



im November 2005

SEMINARANKÜNDIGUNG

Dienstag, 29. November 2005

17.15 Uhr

WSI, Seminarraum S 101

„Controlling electronic and magneto-optical properties in self-assembled quantum dots“

Fine control of the electronic and magneto-optical properties of semiconductor quantum dots are important for development of fundamental physics and for future quantum information processing. We report on our recent experimental and theoretical results on single self-assembled quantum dots. This seminar will focus on three topics: (1) manipulation of electronic states in single InGaAs quantum dots by micro-electromechanical systems (MEMS); (2) tuning of g-factor of self-assembled InGaAs dots through strain engineering; (3) single electron transistor (SET) based on GaN dots.

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