



Sonderforschungsbereich 631
Festkörperbasierte Quanteninformationsverarbeitung



SEMINARANKÜNDIGUNG

Dienstag, 27. Juli 2010

17:15 Uhr

WSI, Seminarraum S 101

“Optics with semiconducting, metallic and superconducting nanowires”

I will present photoluminescence experiments done on quantum dots in nanowires. We have studied InAsP/InP quantum dots defined by a conventional heterostructure and also InP/InP quantum dots where the crystal phase defines the confining potential. Superconducting nanowires for single photon and single plasmon detection will also be presented and the possibility to build circuits with metallic nanowires acting as plasmonic waveguides connecting detectors and emitters will be discussed.

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