



Sonderforschungsbereich 631
Festkörperbasierte Quanteninformationsverarbeitung



SONDERSEMINAR

Freitag, 24. April 2009

14:00 Uhr

WSI, Seminarraum S 101

“Radiative cascades in semiconductor quantum dots”

In the seminar I will try to review our current understanding of radiative cascades in semiconductor quantum dots at various charge states. I will demonstrate their potential as reliable sources for entangled photon pairs and the possibility to use them for entangling information carrying flying qubits (photons) with anchored matter qubits (charge carriers' spins). The later will be compared with our recent experimental findings, where cascades through spin blockaded states were identified for the first time.

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