



Sonderforschungsbereich 631
Festkörperbasierte Quanteninformationsverarbeitung



Seminarankündigung

SFB-631 Seminar

Department für Physik
der Ludwig-Maximilians-Universität
Theresienstr. 37, **Seminarraum 349**

Datum: Dienstag, den 17. Oktober 2006

Uhrzeit: 14:00

Vortragender: Dr. Pavel Lougovski
Louisiana State University

Titel: QND measurement of the energy of a nano-mechanical oscillator without a non-demolishing probe.

We show that it is possible to perform a continuous Quantum Non-Demolition (QND) measurement of the energy of a nano-mechanical resonator without a QND coupling to the resonator. This technique makes it possible to perform such a QND measurement by coupling a nano-mechanical resonator to a Cooper-pair Box and a superconducting transmission line resonator.

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