



Forscherguppe 877

Universität Leipzig
Fakultät für Physik und
Geowissenschaften
Institut für Theoretische Physik

TKM-/FOR 877-Seminar

Am Mittwoch, dem 30.10.2013 um 14:00 Uhr spricht

Jaime Santos, DPhil

(Centro de Fisica da Universidade do Minho, Braga - Portugal*)

über

The distribution of work performed on a superconductor/ normal-metal junction

We will provide an introduction to the significance of the Jarzynski's equality and of its implications in the context of the thermodynamics of small systems out-of-equilibrium, both classical and quantum. We will then consider the probability distribution for the work performed by an external field on a quantum two-level system (Rabi problem), which is shown to obey Jarzynski's equality. Finally, we will discuss possible experimental applications of our result in the context of superconductor/normal-metal junctions.

Work done in collaboration with S. Kirchner, MPIPks, Dresden, Germany

* currently visiting the MPIPks, Dresden, Germany

Ort: ITP, Brüderstraße 16, SR 210

Interessenten sind herzlich eingeladen!