



NANO LUND

AT THE FOREFRONT OF NANO SCIENCE



Prof. Erik Lutz
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NANOSCIENCE COLLOQUIUM

Thursday
April 21, 2016
at 15:15,
K-space, Fysicum

A Single Atom Heat Engine

We review the miniaturization of heat engines towards the nanoscale. We discuss in detail the experimental realization of a single atom engine using an ultracold trapped ion coupled to engineered reservoirs. We further address the question of how to enter the quantum regime and exploit quantum effects to enhance the performance of the machine.

Host: Peter Samuelsson (Mathematical Physics)