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Finite Time Thermodynamics of Simple Model Systems

Friday, March 8, 2013 10:00 AM (1 hour)

A variety of simple model systems provide a theoretical testbed for a thorough characterization of the efficiency of operation of thermodynamic systems at maximum power (i.e., away from equilibrium) and also for the characterization of fluctuations in small thermodynamics systems in a non-equilibrium steady states. These models are particularly attractive because they can be explored analytically. Starting with idealized single quantum dot devices we will present a variety of such systems in a variety of operational modes. Our goal is to understand universal properties beyond the linear response regime.

Presenter: Prof. LINDENBERG, Katja (University of California)