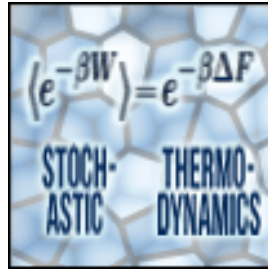


## Stochastic Thermodynamics



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# Stochastic Thermodynamics and Information Processing

*Monday, March 11, 2013 10:00 AM (1 hour)*

I will start by presenting different ways in which one can use stochastic thermodynamics to characterize the cost of operations manipulating information. The main focus of my talk will be dedicated to explicitly show, using stochastic thermodynamics, in what sense a Maxwell demon effectively modifies the second law of thermodynamics and in what sense it satisfies the second law when the cost for operating the demon is taken into account. A model of coupled quantum dots will be used to illustrate my point.

**Presenter:** Dr ESPOSITO, Massimiliano (University of Luxembourg)