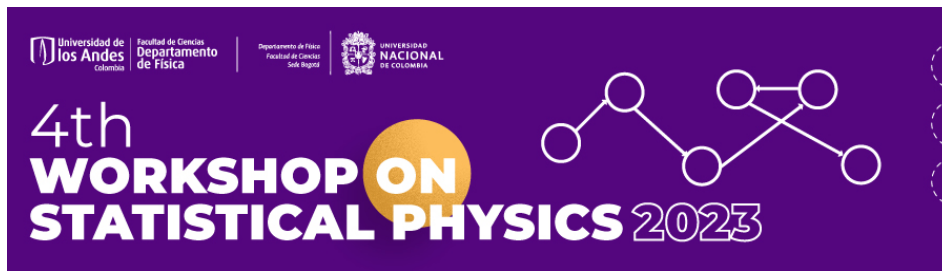Contribution ID: **19**   Tipo: **Oral**

Fast Thermal Equilibration Protocol: Two-step protocol

viernes, 6 de octubre de 2023 9:40 (20 minutos)

When a system deviates from equilibrium, it is possible to manipulate and control it to drive it towards equilibrium within a finite time t_f, even reducing its natural relaxation time scale τ_{relax}. Although numerous theoretical and experimental studies have explored these shortcut protocols, few have yielded analytical results for the probability distribution of work, heat and entropy production. In this talk, we discuss the two-step protocol that captures the essential characteristics of more general protocols and has analytical solution for the relevant thermodynamic probability distributions.

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