



Conference on Long-Range Interacting Many-Body Systems: from Atomic to Astrophysical Scales (25 - 29 July 2016)

Venue: ICTP Leonardo da Vinci Building - Budinich Lecture Hall (tel: +39 040 2240346, fax: +39 040 224163, e-mail: smr2830@ictp.it)

Title: Relaxation of finite-size fluctuation in thermal equilibrium

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Abstract:

We numerically demonstrate temporal increase of the strength of finitesize fluctuation in thermal equilibrium of а simple long-range interacting system. We propose a scenario to understand the relaxation thermal equilibrium from the view point of the Casimir invariants, in which hold the Vlasov systems. This supported by in scenario is confirming the the fluctuation-response relation. since Casimir invariants suppress the response.