SAIP2016



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Type: Poster Presentation

Driven non-equilibrium systems modeled with Markov processes

Wednesday, 6 July 2016 16:10 (1h 50m)

Abstract content
 (Max 300 words)
Formatting &
Special chars

My talk is devoted to presented results about a study of the current fluctuation of a motion of a particle on a ring, evolving with a driving force and the potential under the influence of a stochastic force. We derived the equation of motion with and without noise and solved it for various parameters. We analyzed an analytical and numerical stationary distributions. We also derived for this model the fluctuations properties of the current observable and looked at the driven process for these fluctuations. The resulting function tells us how fluctuations arise.

Apply to be
 considered for a student
 award (Yes / No)?

yes

Level for award
 (Hons, MSc,
 PhD, N/A)?

PhD

Main supervisor (name and email)
and his / her institution

Prof. Hugo Touchette

Would you like to
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No

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