

Center for Soft Matter and Biological Physics

Discussion Meeting

Priyanka

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Study of anomalous behavior in one-dimensional harmonic system

Friday, February 16, 2018

4:00 pm—5:00 pm

304 Robeson Hall

I will start with some theoretical models which have been developed to understand the violation of Fourier's Law in the lower dimension. Anomalous transport, nonlinear temperature profile etc, are the key feature of these model. In detail, I will talk about one of these models (harmonic chain with volume exchange) and present some its analytical and numerical results. I will present exact expression of two-point function in a stationary state and also shows that the dynamics are governed by fractional Laplacian.