

Title: Activated random walks on Z^d

Speaker: Leonardo Trivellato Rolla (University of Warwick)

Dates: 2020 July 20th, 22nd, 24th, 27th, 29th.

Time: 15:00-17:00 (Beijing time)

Abstract:

Some stochastic systems are particularly interesting as they exhibit critical behavior without fine-tuning of a parameter, a phenomenon called self-organized criticality. In the context of driven-dissipative steady states, one of the main models is that of Activated Random Walks. Long-range effects intrinsic to the conservative dynamics and lack of a simple algebraic structure cause standard tools and techniques to break down. This makes the mathematical study of this model remarkably challenging. Yet, some exciting progress has been made in the last ten years, with a framework of tools and methods which is finally becoming more structured. In this mini-course we present the existing results and explain the techniques developed so far.

July 20th

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