

Internal Webinar

Simulation study of active Vertex Model and a crossover mechanism in kinetically constrained models

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This talk consists of two distinct parts: first, about an ongoing simulation study to test the theoretical extension of active Random First Order Transition (RFOT) theory to vertex-models of confluent cellular monolayers, second, the study of a crossover mechanism in Kinetically Constrained Models (KCMs). I will talk about some analytical results for the East model and try to give an insight about the relaxation mechanism of the system. Then I will discuss a variant of KCMs, which exhibits a crossover between two well-known relaxation mechanisms, from stretched exponential to power law. We are trying to quantify this physical behaviour by using simulation results as well as analytical calculations.

Tuesday, Aug 25th 2020

3:00 PM