

Myopic non-intersection in a periodic potential

Daniel Remenik

Universidad de Chile

I will discuss a model of non-intersecting Brownian motions subject to a periodic potential, where the non-intersection condition is enforced dynamically over finite time windows. The main focus is on the interplay between the confining effect of the potential and the repulsion induced by the non-intersection condition. I will describe how, in an appropriate scaling limit, the system transitions between standard non-intersection dynamics and exclusion behavior. Based on joint work with J. Arista and A. Sepúlveda.

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