Microscopic models of fractional diffusion with Dirichlet boundary conditions

Cedric BERNARDIN, *Université de Nice Sophia-Antipolis*

In this talk I will discuss hydrodynamic limits for the boundary driven exclusion process with long jumps. Depending on the form of the reservoirs and the coupling strength, different macroscopic behaviors, belonging to the class of fractional reaction-diffusion equations with Dirichlet boundary conditions, are derived.

Joint work with P. Gonçalves and B. Jimenez Oviedo.