Probability Seminar

Title: Pushing and blocking interactions in a random growth process

Speaker: Will FitzGerald (University of Manchester)

Date: Wed 13th November 2024 at 2:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: I will introduce an interacting particle system called PushASEP where particles attempt nearest neighbour jumps on the integer lattice and remain in the same order due to local interactions of pushing and blocking between particles. With a wall at the origin, the paths of the particles can be viewed as a discrete-time growth process. I will describe this process, its invariant measure and relations to the Polynuclear growth model and random matrices.