



Probability Seminar

Title: (CANCELLED) On shocks in TASEP

Speaker: (CANCELLED) Mustazee Rahman (Durham)

Date: Wed 25th March 2020 at 2:00PM

Location: Seminar Room SCN 1.25

Abstract: The TASEP particle system runs into traffic jams when the density of its initial particle configuration increases in the direction of flow. It serves as a microscopic model of shocks in Burgers equation. I will describe work with Jeremy Quastel where, for a basic setup, we identify fluctuations of the shock by using determinantal formulas for correlation functions. These are described in terms of random matrix laws.

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