Quenched asymptotics for Brownian motion in a spatial Gaussian noise

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Monday, November 5, 2018 - 2:30pm to 3:30pm
PDL C-401

Abstract: I will discuss the long term quenched asymptotics for the Brownian motion in time-independent Gaussian noise. The main results solves an open problem posed by Carmona and Molchanov (1995). In addition, I will explain why this type of behavior only exists in the setting of time-independence.

Part of the talk is based on the joint work with P. Chakrabotry, B. Gao and S. Tindel.