
Stochastic scalar conservation laws

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Abstract

In this talk we will review recent results for stochastic scalar conservation laws with random flux. In the first part we will focus on a well-posedness theory for the case of spatially inhomogeneous, random fluxes as they appear in mean field games. In the second part we will investigate the long time behavior and regularity of solutions to stochastic scalar conservation laws on the torus. In particular, we will observe a certain regularizing effect due to the noise. This is joint work with Panagiotis E. Souganidis.

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