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Yuri Bakhtin* (bakhtin@cims.nyu.edu), 251 Mercer St, New York, NY 10012. *Ergodic theory of the Burgers equation with random forcing.*

The Burgers equation is a basic nonlinear evolution PDE of Hamilton–Jacobi type related to fluid dynamics and growth models. I will talk about the ergodic theory of randomly forced Burgers equation in noncompact setting. The basic objects are one-sided infinite minimizers of random action (in the inviscid case) and polymer measures on one-sided infinite trajectories (in the positive viscosity case). This is joint work with Eric Cator, Kostya Khanin, and Liying Li. (Received March 20, 2017)