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Mohammud Foondun* (mohammud@math.utah.edu). *Intermittence and nonlinear parabolic stochastic partial differential equations.*

In this talk, we consider a class of randomly-forced nonlinear heat equations. We present criteria for the existence as well as uniqueness of solutions. We also investigate the long-time behavior of the solutions using upper Liapounov exponents. This talk is based on joint work with Davar Khoshnevisan. (Received August 28, 2008)