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Bin Xie* (bxie@shinshu-u.ac.jp), Department of Mathematical Sciences, Faculty of Science, Shinshu University, Matsumoto, Nagano 390-8621, Japan, and **Tadahisa Funaki**. *A singular Stochastic partial differential equation and its invariant measures.*

We are going to consider a linear heat equation on a half line with an additive noise chosen properly in such a manner that its invariant measures are a class of distributions of Lévy processes. Our assumption on the corresponding Lévy measure is, in general, mild except that we need its integrability to show that the distributions of Lévy processes are the only invariant measures of the stochastic heat equation. This is joint work with Professor T. Funaki. (Received August 03, 2009)