

1119-60-260

Yaozhong Hu* (yhu@ku.edu) and **Khoa Le**. *Density of parabolic Anderson field*. Preliminary report.

Let u satisfy the stochastic heat equation $\frac{\partial}{\partial t}u = \frac{1}{2}\Delta u + u\dot{W}$, where Δ is the Laplacian and W is a general Gaussian noise. It is known that under certain condition, the probability law of $u(t, x)$ has a density with respect to Lebesgue measure. We shall study some asymptotic properties of this density. (Received February 17, 2016)