1133-60-300 **Yaozhong Hu*** (yaozhong@ualberta.ca), Dept of Math and Stat Sciences, University of Alberta, Edmonton, Alberta T6G 2G1, Canada, and **Khoa Le** (khoa.le.n@gmail.com), Dept of Math and Stat Sciences, University of Alberta, Edmonton, Alberta T6G 2G1, Canada. *Density of parabolic Anderson random field.* Preliminary report.

We study the density $\rho(t,x;y)$ of the law of the solution $u(t,x)$ to a stochastic partial differential equation $\frac{\partial}{\partial t}u(t,x) = \frac{1}{2}\Delta u(t,x) + u \diamond \dot{W}(t,x)$, where $\dot{W}$ is a general Gaussian noise. We mainly concern with the asymptotic behavior of $\rho(t,x;y)$ when $y \to \infty$. Both upper and lower bounds are obtained and these two bounds match each other in exponential scale. If the initial data is positive, then $\rho(t,x;y)$ is supported on $y \in [0,\infty)$ and in this case we also study the asymptotic behavior of $\rho(t,x;y)$ when $y \to 0+$. (Received July 30, 2017)