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Xia Chen*, Department of Mathematics, University of Tenn, Knoxville, TN 37922. *Parabolic Anderson models —large scale asymptotics.*

The model of the parabolic Anderson equation

$$\frac{\partial u}{\partial t} = \frac{1}{2} \Delta u + \dot{W}^H u$$

is relevant to some problems arising from physics such as the particle movement in disordered media, population dynamics, and the KPZ equations through a suitable transform.

In this talk we provide a survey on the progress achieved in the recent years in the large scale asymptotics for the solution. The topics include intermittency, high moment asymptotics, quenched time and space asymptotics. (Received July 09, 2019)