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Mass asymptotics for the 2d parabolic Anderson model

I will discuss the long time asymptotics of the total mass of the two-dimensional parabolic Anderson model with (space) white noise potential. The proof is based on a new method of stochastic characteristics for singular stochastic PDEs and heat kernel estimates for singular diffusions, in combination with recent results by Chouk and van Zuijlen on the asymptotics of the spectrum of the Anderson Hamiltonian with white noise potential. Joint work with Wolfgang König and Willem van Zuijlen.