Weak universality of the parabolic Anderson model

Nicolas Perkowski*[1]

[1]Humboldt Universität (HU Berlin) – Germany

Abstract

We study a nonlinear version of the two-dimensional lattice parabolic Anderson model (PAM) with small potential and see that its rescaled solution converges to the linear continuum PAM, universally for all centered i.i.d. potentials with sufficiently many moments and for all nonlinearities vanishing at the origin. The proof is based on paracontrolled distributions. Joint work with Khalil Chouk and Jan Gairing.

*Speaker