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Travelling fronts in the stochastically perturbed KPP equation

We study the asymptotic speed of travelling fronts in a reaction-diffusion equation perturbed by a Fisher–Wright white noise. We prove part of a conjecture of Brunet and Derrida that such perturbations have an unusually strong effect on the front speed.

This is joint work with Carl Mueller (Rochester) and Leonid Mytnik (Technion).