CENTRE
DE RECHERCHES
MATHÉMATIQUES

Systèmes de particules et limites hydrodynamiques
14-25 mars 2022

Interacting Particle Systems and Hydrodynamics Limits
March 14-25, 2022

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The compact support property and finite propagation speed for some SPDE

I will discuss non-negative solutions to stochastic heat equations. Depending on the Hoelder-regularity of the noise coefficient, solutions may have compact or unbounded supports. After reviewing some classical results in the case of Gaussian noise and the representations of solutions as superprocesses with density-dependent branching rates, I will discuss ongoing work when the equations are driven by one-sided stable noise.