



Lehrstuhl für Analysis und Modellierung

**Lehrstuhl-Seminar
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Dynamics of Stochastic Reaction- Diffusion Equations

8. Februar 2019 - 10:30

Seminarraum IADM 8.526, Pfaffenwaldring 57

Abstract: In this talk, I am going to provide a survey of some recent progress on dynamics of certain (still relatively elementary) classes of reaction-diffusion SPDEs. Even the basic theory of what a "solution" should be is still under very active development and discussion; here I shall mention recent progress made for quasi-linear and nonlocal SPDEs. Then I shall focus in more detail on how to capture local fluctuations near deterministically stationary solutions from an analytical and a numerical standpoint. Finally, I am going to provide an outlook towards the case of travelling waves.