

Global Solutions to Quadratic Systems of Stochastic Reaction-Diffusion Equations in Space-Dimension Two

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With Marta Leocata (LUISS, Roma), we study stochastic perturbations to systems of reaction-diffusion equations, the structure of the noise being deduced from the modeling of chemical reactions in a diffusive regime. I will explain in this talk how to establish the existence of global solutions for four-species quadratic systems in space-dimension two.

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