

An introduction to stochastic Cahn–Hilliard-type equations

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In this introductory talk, I will consider the stochastic versions of some Cahn–Hilliard-type systems with thermodynamically relevant free energies (e.g., of Flory–Huggins kind) and briefly discuss several related problems, including some relevant open questions. Moreover, I will also introduce convenient propedeutical notions to the follow-up talk. Although a self-contained presentation is clearly not possible, I shall assume only elementary notions in probability theory and no prior knowledge of infinite-dimensional stochastic calculus.