

Recent results around long-range Ising models

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Abstract:

Long-range Ising models with polynomially decaying interactions to some extent simulate the behaviour of higher-dimensional short-range models. However, the analogy is imperfect. In the last few years there have been a number of developments around these models, mostly based on the behaviour of low-temperature excitations and interfaces. I plan to review a number of those. They include the difference between the spatial and time-like stochastic processes, the stability of interfaces, metastability and possible metastates for these models.