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Nonperturbative Analysis of Noncritical Ising Models: Some Applications of the Ornstein–Zernike Theory

mercredi 1 juin 2022 12:00 (1 heure)

In its modern incarnation (developed during the last two decades), Ornstein-Zernike's theory enables a non-perturbative analysis of non-critical ferromagnetic Ising models (and other models). I'll review some of its recent applications to the asymptotics of correlation functions (in any dimension) and to the fluctuation theory of interfaces (in the planar model).

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