

2D Ising Model and its Tricritical Version, when Theory Meets Experiments

mardi 31 mai 2022 11:00 (1 heure)

The magnetic deformation of the 2D Ising model and the thermal deformation of the Tricritical Ising Model is related to the exceptional E_8 and E_7 Lie algebras.

The corresponding exact S-matrix theories and the related dynamical structure factors of both models have rich spectroscopy which can be challenged by experiments based on neutron scattering. While in the case of the Ising Model there are nowadays very precise experimental confirmations of the theory, the corresponding experimental set-up of the Tricritical Ising Model is an interesting open question in the field of integrable models.

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