

## Renormalization Group Study of Ising Transition in Double-Frequency sine-Gordon Model

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**Abstract:** We utilize the renormalization group (RG) technique to analyze the Ising critical behavior in the double frequency sine-Gordon model. The one-loop RG equations obtained show unambiguously that there exist two Ising critical points besides the trivial Gaussian fixed point. The topology of the RG flows is obtained as well.

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**Key words:** Ising criticality, renormalization group

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