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Tensor renormalization group study of 3D principal chiral model

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We study the three dimensional principal chiral model using both the triad tensor renormalization group method, and the anisotropic tensor renormalization group method. We present a tensor network formulation for the model, and compare the ability of the two methods to measure thermodynamic observables. In addition we remark upon criticality, and the possible universality class of the phase transition.

Topical area

Theoretical Developments

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