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Investigation of probability theory on Ising models with different four-spin interactions

Yuming Yang, Baohua Teng, Hongchun Yang, Haijuan Cui

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[Highlights]

- Our simulations imply that the inaccuracy of the mean field approximation does not result from the calculation in correlation functions of spins.
- A possible error resource in ordinary calculation is pointed out.
- We present upper critical temperature in an analytical way.

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