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Exact solution for an ising model on the cayley tree of order 5 (Conference Paper)

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Abstract

We investigate an **Ising model** with two restricted competing interactions (nearest neighbors, and one-level neighbors) on the **Cayley tree of order 5**. The translation Gibbs measures is considered for this **model**. Our result of the critical curve shows that the phase transition occurs in this **model**, further it confirms a particular case of a conjecture. © 2016 Author(s).

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