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Magnetic properties of mixed spin-5/2 and spin-2 Ising model on a decorated square lattice: A Monte Carlo simulation

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Magnetic properties of mixed spins of decorated square(DS) lattice are studied using MCS.

Ground state phase diagrams of mixed spins Ising model on a DS lattice are obtained.

Reduced transition temperature is obtained for decorated square lattice.

System exhibit the superparamagnetism behaviour for $d=-4$.

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