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Ground state phase diagrams and magnetic properties of a bilayer hexagonal structure

A. Jabar, R. Masrour, N. Tahiri

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The bilayer hexagonal structure is studied, using Monte Carlo simulations.

The ground state phase diagrams is given.

The transition temperature of bilayer hexagonal is deduced.

Effects of the crystal field, temperatures and exchange coupling interactions is investigated.

Single and triple hysteresis loops for appropriate values of the system parameters is found.

Transition temperature and coercive magnetic field are found for several size of system.

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