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Re-entrance Phase in spin-crossover nanoparticles

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We study the size effec on spin crossover nanoparticles in a 2D Ising-like model subjet to the interactions with the molecules at the surface. We determined the density of macrostates by using entropic sampling Monte Carlo technique. We found the decreasing the size of the nanoparticles leads to a global increase of the effective interaction. This unsual behavior is explained in this contribution.

Keywords : spin-crossover, phase transition, surfaces effects, Monte Carlo simulations

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