

Approximation method to metastability: an application to Ising/Potts models without external fields

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We introduce a new method to prove a metastable behavior, which is the H^1 -approximation method of the equilibrium potential function. The strength of this method lies on the fact that one may avoid referring to complicated objects or principles in potential theory, such as the flow structure, the Dirichlet and Thomson principles, etc. As an application, we explain the metastable behavior of Ising/Potts models without external fields in the low-temperature regime. This talk is based on a joint work with Insuk Seo.