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Phase Transitions: stability and lack of regularity for g-functions

Rodrigo Bissacot

We discuss Ising and Dyson models and the stability of the phase transition phenomenon under a particular type of perturbations (using external fields decaying to zero). For Dyson models with slow polynomial decay and in the absence of external fields, we show that its Gibbs measures deep in the phase transition region are not g-measures. In the sense that the natural g-functions are not continuous. Joint work with Aernout van Enter (Groningen), Arnaud Le Ny (Université Paris-Est) and Eric O. Endo (USP).

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