Accepted Manuscript

Spectral density and calculation of free energy

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 PII:
 S0378-4371(18)30885-9

 DOI:
 https://doi.org/10.1016/j.physa.2018.07.021

 Reference:
 PHYSA 19846

 To appear in:
 Physica A

 Received date :
 11 February 2018

 Revised date :
 13 June 2018



Please cite this article as: L. Litinskii, B. Kryzhanovsky, Spectral density and calculation of free energy, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.07.021

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It is easy to calculate the free energy with the aid of the spectral density (SD).

The approximation of SD by polynomials leads to nonphysical results.

The n-vicinity approximation of SD provides good results for the 3D Ising model.

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