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High Energy Physics - Theory

How universal is the Wigner distribution?

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(Submitted on 19 Jul 2011 (v1), last revised 23 Aug 2011 (this version, v2))

We consider Gaussian ensembles of m N x N complex matrices. We identify an enhanced symmetry in the system and the resultant closed subsector, which is naturally associated with the radial sector of the theory. The density of radial eigenvalues is obtained in the large N limit. It is of the Wigner form only for m=1. For m $\ge$ 2, the new form of the density is obtained.

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