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Non Supersymmetric Large N Background for Two Yang-Mills Coupled Matrices

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Abstract content
   (Max 300 words)

We derive the planar large N non-supersymmetric background of quantum mechanical Hamiltonian of two Hermitian matrices coupled via a Yang-Mills interaction, in terms of the density of eigenvalues of one of the matrices. This background satisfies an implicit non linear integral equation, with a perturbative small coupling expansion and a solvable large coupling solution, which is obtained. The energy of system and the expectation value of several correlators are obtained in strong coupling limit. They are free of infrared divergences.

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