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# **Mathematical Physics**

# Asymptotic mean density of sub-unitary ensemble

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The large N limit of mean spectral density for the ensemble of NxN subunitary matrices derived by Wei and Fyodorov (J. Phys. A: Math. Theor. 41 (2008) 50201) is calculated by a modification of the saddle point method. It is shown that the result coincides with the one obtained within the free probability theory by Haagerup and Larsen (J. Funct. Anal. 176 (2000) 331).

Subjects: Mathematical Physics (math-ph); Chaotic Dynamics (nlin.CD)

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