

Title:

Moderate Deviations for the Spectral Measure of Certain Random Matrices

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Abstract:

We derive a moderate deviations principle for matrices of the form $X_N = D_N + W_N$ where W_N are Wigner matrices and D_N is a sequence of deterministic matrices whose spectral measures converge in a strong sense to a limit μ_D . Our techniques are based on a dynamical approach introduced by Cabanal-Duvillard and Guionnet.