Spectral signatures of breaking of ensemble equivalence

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Spectral properties of random graphs have been studied intensively in past years. Both the adjacency matrix and the Laplacian matrix have been popular.

Most of the literature deals with random graphs whose edges are drawn independently. In this PhD thesis we focus on the largest eigenvalue of the adjacency matrix for a class of constrained random graphs where the edges are weakly dependent, and show that it has exhibits universal properties.

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