Título: A Proof Of Alon's Second Eigenvalue Conjecture And Related Problems

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Sinopsis

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A d-regular graph has largest or first (adjacency matrix) eigenvalue \lambda 1=d. Consider for an even \ge 4, a random d-regular graph model formed from d/2 uniform, independent permutations on \{1,\ldots,n\}. The author shows that for any \epsilon>0 all eigenvalues aside from \lambda 1=d are bounded by 2\sqrt{d-1}\;+\epsilon with probability 1-O(n{-\tau}), where \tau=\lceil \bigl(\sqrt{d-1}\;+1\bigr)/2 \rceil-1. He also shows that this probability is at most $1-c/n{\tau'}, for a constant c and a \tau' that is either \tau or \tau+1 ("more often" \tau than \tau+1). He proves related theorems for other models of random graphs, including models with d odd.