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**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  $d \geq 4$ , a random  $d$ -regular graph model formed from  $d/2$  uniform, independent permutations on  $\{1, \dots, n\}$ . 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  $\tau = \lceil \frac{\sqrt{d-1} + 1}{2} \rceil - 1$ . 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.