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Summary: In this paper, we investigate the least eigenvalue of signless Laplacian matrix of a connected graph, and determine the graphs which have the minimum least signless Laplacian eigenvalue among all nonbipartite graphs with given stability number $\alpha \geq \frac{n-1}{2}$ or covering number $2 \leq \beta \leq \frac{n+1}{2}$, respectively.

Keywords: least eigenvalue; signless Laplacian matrix; stability number; covering number
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