

BOUNDS FOR LAPLACIAN GRAPH EIGENVALUES

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Abstract. Let G be a connected simple graph whose Laplacian eigenvalues are $0 = \mu_n(G) \leq \mu_{n-1}(G) \leq \dots \leq \mu_1(G)$. In this paper, we establish some upper and lower bounds for the algebraic connectivity and the largest Laplacian eigenvalue of G .

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