

The A_α -spectra of graphs

林輝球

华东理工大学

Let G be a graph with adjacency matrix $A(G)$ and let $D(G)$ be the diagonal matrix of the degrees of G . For any real $\alpha \in [0, 1]$, Nikiforov [Merging the A - and Q -spectral theories, Appl. Anal. Discrete Math. 11 (2017) 81–107] defined the matrix $A_\alpha(G)$ as $A_\alpha(G) = \alpha D(G) + (1 - \alpha)A(G)$. In this talk, we will introduce some results on this matrix.