

## عنوان مقاله:

SIGNLESS LAPLACIAN SPECTRAL MOMENTS OF GRAPHS AND ORDERING SOME GRAPHS WITH RESPECT TO THEM

## محل انتشار:

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## خلاصه مقاله:

Let  $G = (V, E)$  be a simple graph. Denote by  $D(G)$  the diagonal matrix  $\text{diag}(d_1, \dots, d_n)$ , where  $d_i$  is the degree of vertex  $i$  and  $A(G)$  the adjacency matrix of  $G$ . The signless Laplacian matrix of  $G$  is  $Q(G) = D(G) + A(G)$  and the  $k$ -th signless Laplacian spectral moment of graph  $G$  is defined as  $T_k(G) = \sum_{i=1}^n q_i^k$ ,  $k \geq 0$ , where  $q_1, q_2, \dots, q_n$  are the eigenvalues of the signless Laplacian matrix of  $G$ . In this paper we first compute the  $k$ -th signless Laplacian spectral moments of a graph for small  $k$  and then we order some graphs with respect to the signless Laplacian spectral moments.

## کلمات کلیدی:

Spectral moments sequence, signless Laplacian, generalized Petersen graph, T-order

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1579912>

