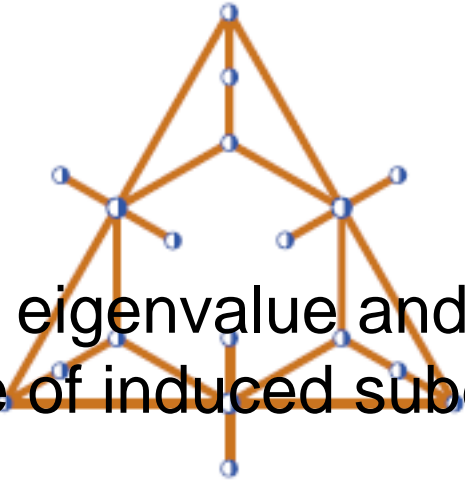


Bled'11 - 7th Slovenian International Conference on Graph Theory

Contribution ID : 179

The largest eigenvalue and bi-average degree of induced subgraphs



Content :

We establish a close connection between the largest eigenvalue of a graph and the quantity

$$\max \frac{e(X,Y)}{\sqrt{|X||Y|}},$$

where the maximum is over all pairs (X,Y) of subsets of the vertex set of the graph. Our results are best possible up to a logarithmic factor.

Primary authors : Prof. LEV, Vsevolod (The University of Haifa at Oranim)

Co-authors :

Presenter : Prof. LEV, Vsevolod (The University of Haifa at Oranim)

Session classification : --not yet classified--

Track classification : Graph Spectra and its Applications

Type : Oral presentation