Electronic Journal of Linear Algebra ISSN 1081-3810 A publication of the International Linear Algebra Society Volume 22, pp. 151-160, February 2011



THE SIGNLESS LAPLACIAN SEPARATOR OF GRAPHS*

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Abstract. The signless Laplacian separator of a graph is defined as the difference between the largest eigenvalue and the second largest eigenvalue of the associated signless Laplacian matrix. In this paper, we determine the maximum signless Laplacian separators of unicyclic, bicyclic and tricyclic graphs with given order.

Key words. Signless Laplacian, Separator, *c*-cyclic graphs.

AMS subject classifications. 15A18, 05C50.

^{*}Received by the editors on July 22, 2010. Accepted for publication on February 17, 2011. Handling Editor: Bryan Shader.

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