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BOUNDS FOR THE SPECTRAL RADIUS OF BLOCK H-MATRICES[*]

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Abstract. Simple upper bounds for the spectral radius of an H-matrix and a block H-matrix are presented. They represent an improvement over the bounds in [T.Z. Huang, R.S. Ran, A simple estimation for the spectral radius of (block) H-matrices, Journal of Computational Applied Mathematics, 177 (2005), pp. 455–459].

Key words. Spectral radius, H-matrices, Block H-matrices.

AMS subject classifications. 65F10, 65F15.

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