

THE NUMERICAL RADII OF WEIGHTED SHIFT MATRICES AND OPERATORS

MAO-TING CHIEN AND HUE-AN SHEU

Abstract. Let A be an operator on a separable Hilbert space. The numerical range of A is defined as $W(A) = \{ \langle Ax, x \rangle : \|x\| = 1 \}$. It is known that the numerical range of a weighted shift operator is a circular disk. In this paper, we compute and compare the numerical radii of certain weighted shift matrices and operators.

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