Operator Inequalities and Normal Operators

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(with ameur seddik2)

Abstract

In the present paper, taking some advantages offered by the context of finite dimensional Hilbert spaces, we shall give a complete characterizations of certain distinguished classes of operators (self-adjoint, unitary reflection, normal) in terms of operator inequalities. These results extend previous characterizations obtained by the second author [5, 6, 7, 8].

Keywords. Closed range operator, Moore-Penrose inverse, selfadjoint operator, unitary operator, normal operator, operator inequality.

References


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