

ON k -QUASI- M -HYPONORMAL OPERATORS

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Abstract. In this present article we introduce a new class of operators which we will be called the class of k -quasi- M -hyponormal operators that includes hyponormal and M -hyponormal operators. A part from other results, we show that following results hold for a k -quasi M -hyponormal operator T :

- (i) T has the Bishop's property (β) .
- (ii) The spectral mapping theorem holds for the essential approximate point spectrum of T .
- (iii) Every non-zero isolated point in the spectrum of T is a simple pole of the resolvent of T .

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