(∞, C)–ISOMETRIC OPERATORS

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Abstract. In this paper we study properties of (∞, C)-isometric operators. In particular, we prove that if T is an (∞, C)-isometry and Q is a quasinilpotent operator, then $T + Q$ is an (∞, C)-isometry under suitable conditions. Moreover, we show that the class of (∞, C)-isometric operators is norm closed. Finally, we investigate properties of products and tensor products of (∞, C)-isometric operators.

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