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LINEAR ISOMETRIES OF FINITE CODIMENSIONS ON BANACH ALGEBRAS OF HOLOMORPHIC FUNCTIONS

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ABSTRACT. Let K be a compact subset of the complex n -space and $A(K)$ the algebra of all continuous functions on K which are holomorphic on the interior of K . In this paper we show that under some hypotheses on K , there exists no linear isometry of finite codimension on $A(K)$. Several compact subsets including the closure of strictly pseudoconvex domain and the product of the closure of plane domains which are bounded by a finite number of disjoint smooth curves satisfy the hypotheses.

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