

بسمه تعالی



دانشگاه صنعتی اصفهان

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Representation Of Certain Banach Algebras

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For a space X denote by $C_b(X)$ the Banach algebra of all continuous bounded scalar-valued functions on X and denote by $C_0(X)$ the set of all elements in $C_b(X)$ which vanish at infinity.

We prove that certain Banach subalgebras H of $C_b(X)$ are isometrically isomorphic to $C_0(Y)$, for some unique (up to homeomorphism) locally compact Y . The space Y is explicitly constructed as a subspace of the Stone-Ćech compactification of X . The known construction of Y enables us to examine certain properties of either H or Y and derive results not expected to be deducible from the standard Gelfand Theory.

