

Linear multiplicative functionals of algebras of S-analytic functions on groups

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Abstract

Let S be a subsemigroup of a semigroup Σ that generates a group G . We find conditions that assure extendability of linear multiplicative functionals of the algebra A_S of S -analytic functions on G with spectra in S to linear multiplicative functionals of the corresponding algebra A_Σ . Conditions for existence of dense homeomorphic embeddings of the upper half plane in the maximal ideal space of the algebra of almost periodic functions on \mathbb{R} with spectrum in S , and of the open unit disc in the maximal ideal space of certain subalgebras of H^∞ are obtained as corollaries.
