

Module Amenability of Banach Algebras

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1 Introduction and some Preliminaries

For a Banach algebra A with a bounded approximate identity, we investigate the A -module homomorphisms of certain introverted subspaces of A^* , and show that all A -module homomorphisms of A^* are normal if and only if A is an ideal of A^{**} . We obtain some characterizations of compactness and discreteness for a locally compact quantum group \mathbb{G} .

$$f(x) = \mathbb{G}\Gamma(x) + \xi^x + 2^x - \gamma$$