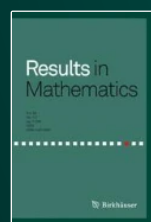


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AMHNMH, AMNM and ADND Pairs



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Results in Mathematics

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Abstract

Let A be a Banach algebra, let X and Y be Banach A -modules and take $\mathfrak{B}(X, Y)$ as the space of all bounded linear maps from X into Y . The pair $(X, Y)_A$ is said to be an AMHNMH if almost module homomorphisms are near module homomorphisms in the norm topology on $\mathfrak{B}(X, Y)$. We study AMHNMH pairs and give some examples of them. As a result, we prove that if A is amenable, X is a commutative Banach A -module and Y is a dual commutative Banach A -module, then the pair $(X, Y)_A$ is AMHNMH. As special cases, we also investigate the nearness of almost multipliers and almost derivations to multipliers and derivations respectively.

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Ethics declarations

Conflict of interest

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