

STABILITY OF GROUP AND RING HOMOMORPHISMS

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Abstract. In this paper, we give generalization of Hyers' theorem on the stability of approximately additive mapping and a generalization of Badora's theorem on approximate ring homomorphism. We also obtain a more general stability theorem, which gives stability theorems on Jordan and Lie homomorphisms. The proofs of the theorems given in this paper follow essentially the D. H. Hyers - Th. M. Rassias approach to stability of functional equations connected with S. M. Ulam's problem.

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