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Effects of Homoderivations on Ideals and Structure in Prime and Semiprime Rings

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- (1) Prime ideal.
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Abstract

In this talk, we explore the properties of rings and their prime ideals within the framework of homoderivations. We present four important theorems that define conditions under which certain algebraic structures display specific behaviors. These findings deepen our understanding of the relationship between homoderivations and the structural characteristics of rings and their quotients, offering valuable insights for future research in ring theory and algebra

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