GENERALIZED JORDAN SUPERDERIVATIONS IN GENERALIZED MATRIX ALGEBRAS

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Abstract

This paper explores generalized superderivations and generalized Jordan superderivations in generalized matrix algebras. It establishes that every generalized Jordan superderivation in a certain class of generalized matrix algebras can be decomposed into a generalized superderivation and an anti-superderivation. The paper also examines their structure in triangular algebras, concluding that any generalized Jordan superderivation of an upper triangular algebra is a generalized derivation under specific conditions.

Keywords

Superalgebra, generalized Jordan superderivation, generalized matrix algebra, triangular algebra.

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