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Note on Generalized Jordan Derivations Associate with Hochschild 2-cocycles of Rings

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**Abstract:** We introduce a new type of generalized derivations associate with Hochschild 2-cocycles and prove that every generalized Jordan derivation of this type is a generalized derivation under certain conditions. This result contains the results of I. N. Herstein [6, Theorem 3.1] and M. Ashraf and N-U. Rehman [1, Theorem].

**Key Words:** Derivation, Jordan derivation, generalized derivation, generalized Jordan derivation, Hochschild 2-cocycle

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