Classification of 4-Dimensional Nilpotent Complex Leibniz Algebras

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Abstract Leibniz algebras that are noncommutative generalizations of Lie algebras are considered. Nilpotent and simple Leibniz algebras are investigated. The structure theory of finit-dimensional Leibniz algebras with additional properties is studied. Furthermore, the second purpose section is to provide the classification of four dimensional complex nilpotent Leibniz algebras.

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