THE CLASSIFICATION OF n-DIMENSIONAL ALGEBRAS WITH $(n-2)$-DIMENSIONAL ANNIHILATOR

Amir Fernández Ouaridi
Universidad de Cádiz, Puerto Real (Cádiz)
amir.fernandezouaridi@alum.uca.es

The classification of algebras is an important and interesting problem in the modern algebra. There are algebraic classification [1], geometric classification [2], degeneration level classification [3] and some other. In this work, using the algebraic classification of 2-dimensional algebras [1] and ideas from [4, 5], we give a complete classification, up to isomorphism, of all n-dimensional algebras with $(n-2)$-dimensional annihilator over an algebraically closed field of characteristic 0.

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