

BASIC IDEALS IN EVOLUTION ALGEBRAS.

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Recently a new type of genetic algebras, denominated *evolution algebras*, has emerged to enlighten the study of non-Mendelian genetics, which is the basic language of the molecular Biology. With the aim of finding invariants to classify finite dimensional evolution algebras, we introduce and study the notion of a basic ideal. An application of our results leads to the description of the four dimensional perfect non-simple evolution algebras over a field with mild restrictions.

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Key words and phrases. evolution algebra, simple algebra, perfect algebra, basic ideal, irreducible algebra.