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The Fundamental Basis Theorem of Geometry from an algebraic point of view (Conference Paper)

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Abstract

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An algebraic analog of the Fundamental Basis Theorem of geometry is offered with a pure algebraic proof involving the famous Waring's problem for polynomials. Unlike the geometry case the offered system of invariant differential operators is commuting, which is a new result even in the classical geometry of surfaces. Moreover the algebraic analog works in more general settings then does the Fundamental Basis Theorem of geometry. © Published under licence by IOP Publishing Ltd.

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