

论文

ON THE FOUNDATION OF ALGEBRAIC DIFFERENTIAL GEOMETRY

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摘要 An algebraic differential variety is defined as the zero-set of a differential polynomial set, and algebraic differential geometry is devoted to the study of such varieties. We give various decomposition formulas for the structures of such zero-sets which imply inparticular, the unique decomposition of an algebraic differential variety into its irreducible components. These formulas will find applications in various directions including mechanical theorem-proving of differential geometries.

关键词 [Algebraic differential geometry, algebra](#)

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Key words [Algebraic differential geometry](#) [algebraic differential variety](#) [differential algebra](#) [computer alge](#)

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