

Vortrag

Triangular Decomposition of Differential Polynomial Systems

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ABSTRACT

In this talk, we present algorithms for decomposing arbitrary systems of differential polynomials into triangular systems of various kinds (simple, irreducible, with projection property, etc.). Implementations of the algorithms will be discussed and some application examples will be given to illustrate the efficiency of the algorithms and their implementations. The algorithms have been studied more extensively in the specialized algebraic case, resulting in good performance for practical applications. Some of the key and effective algorithmic strategies including splitting at need, equal footing of equations and inequations, and making use of regular subresultants that distinguish our algorithms from others will be highlighted.

Wir laden herzlich alle Interessierten zu diesem Vortrag ein.