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Equivariant decomposition of polynomial vector fields. (English) Zbl 07442604

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MSC:

17B66 Lie algebras of vector fields and related (super) algebras
34C20 Transformation and reduction of ordinary differential equations and systems, normal forms
70G65 Symmetries, Lie group and Lie algebra methods for problems in mechanics
70K45 Normal forms for nonlinear problems in mechanics
15A72 Vector and tensor algebra, theory of invariants

Keywords:

invariant theory; Clebsch-Gordan coefficients; inversion of the Clebsch-Gordan coefficients; nilpotent singularity; unique normal form; Euler vector field

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