

On the Relation between λ -Symmetries and μ -Symmetries of Partial Differential Equations

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Abstract : This study deals with symmetry group properties and conservation laws of partial differential equations. We give a geometrical interpretation of notion of μ -prolongations of vector fields and of the related concept of μ -symmetry for partial differential equations. We show that these are in providing symmetry reduction of partial differential equations and systems and invariant solutions.

Keywords : λ -symmetry, μ -symmetry, classification, invariant solution

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