

Classification of Similarity Solutions for Inviscid Burgers' Equation

Mehdi Nadjafikhah

Abstract. Using the basic Lie symmetry method, we find the most general Lie point symmetries group of the inviscid Burgers' equation. Looking the adjoint representation of the obtained symmetry group on its Lie algebra, we will find the preliminary classification of its group-invariant solutions. This latter provides new exact solutions for the inviscid Burgers' equation.

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Mehdi Nadjafikhah
Faculty of Mathematics,
Iran University of Science and Technology,
Narmak, Tehran, I.R.IRAN
e-mail: m_nadjafikhah@iust.ac.ir

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