

Conservation Laws Related to the Kac-Moody-Virasoro Structure of the Potential Nizhnik-Novikov-Veselov Equation

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We derive the symmetry group by the standard Lie symmetry method and prove it constitutes to the Kac-Moody-Virasoro algebra. Then we construct the conservation laws corresponding to the Kac-Moody-Virasoro symmetry algebra up to second-order group invariants.

Key words: Potential Nizhnik-Novikov-Veselov Equation; Lie Point Symmetry Group; Conservation Laws.

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