

Non-point symmetry of Monge-Ampere type WDVV equation

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Abstract:

The non-point symmetry for the Monge-Ampere type WDVV equation is considered. A non-point change of variables for the equation under study is introduced. Group transformations have been found, thanks to which new solutions can be generated. We have constructed transformations similar to Backlund transformations which contain the second-order derivatives and enable us to construct new solutions from the given one for the WDVV equations too.