

Nonclassical potential symmetries for a nonlinear heat conduction equation.

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A class of nonlinear heat conduction equations is studied from the symmetry point of view. For some of these equations nonclassical symmetries and nonclassical potential symmetries are derived. These nonclassical potential symmetries are realized as nonclassical symmetries of an associated system and yield new solutions which are neither nonclassical solutions of the original equation nor solutions arising from classical potential symmetries.

References

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