On the Variable-coefficient Burgers-Hlavaty Equation

Yi-Tian Gao and Bo Tian

received April 27, 1999

Departments of Applied Physics and Mathematics, Beijing University of Aeronautics and Astronautics, Beijing 100083, China

Reprint requests to Prof. B. T.; E-mail: tianb@netscape.net

Z. Naturforsch. **54a**, 761–762 (1999);

tions along with the constraints on those coefficients.

We study Hlavaty's generalization of the Burgers equation containing certain coefficient functions. We obtain a new auto-Bäcklund transformation and a family of exact analytical solu-

Key words: Nonlinear Evolution Equations; Variable Coefficients; Bäcklund Transformation; Exact Solutions; Symbolic Computation.