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Automodelling solutions to the equations of the viscous heat conductive gas flows

Truncated systems of the equations of viscous heat conductive gas flows are determined, and the flow on a semi-infinite flat plate is studied [1], using the general approach proposed by A. D. Bruno [2]. This approach is based upon the power exponent geometry including the Newton polyhedra. Here, for the first time it is applied to the system of PDE.

References: 1. Vasiliev M. M. About the obtaining automodelling solutions to the equations of the viscous heat conductive gas flows / Institute of Appl. Math., Preprint **95**, Moscow, 1997, (Rus). 2. Bruno A. D. Power exponent geometry in algebraic and differential equations. M., Nauka, (1998), (Rus).