

1062-34-231

Zora Thomova* (thomovz@sunyit.edu), SUNY IT, 100 Seymour Road, Utica, NY 13502. *How to introduce contact transformations for discrete equations.* Preliminary report.

The Lie point transformations and Lie contact transformations are well understood for the ordinary and partial differential equations. In the last 15 years considerable work has been done in developing symmetry techniques for the difference and differential-difference equations. We will describe the contact symmetries for ordinary differential equations and discuss possible ways of introducing a similar concept for the difference equations. (Received August 09, 2010)