## **Symbolic Analysis of Turbulent Fluctuations\***; <u>A.B. Rechester</u>, Institute of Nonlinear Science Applications, 14 West Street, Sharon, MA 02067

The purpose of this presentation is to publicize in the physics community doing numerical simulations of turbulence the utility of new symbolic methods[1,2]. Two methods will be presented: 1) nonlinear correlation function method and 2) symbolic cycles distribution method. Many examples of application of these two methods for turbulence simulation data and actual experimental fluctuation data will be presented in this talk.

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- [1] M. Lehrman and A.B. Rechester, PRL 87, 164501 (2001).
- [2] M. Lehrman and A.B. Rechester, PRL 78, 54 (1997).