

1099-65-280

Daniel Appelo*, The University of New Mexico, Albuquerque, NM 87131, and **Thomas Hagstrom**. *Discontinuous Galerkin methods for Nonlinear Variational Wave Equations*. Preliminary report.

We present new discontinuous Galerkin formulations for second order non-linear variational wave equations. Various choices for the numerical flux and its impact on conservation and rate of convergence will be discussed. Numerical experiments will be presented. (Received February 10, 2014)