Gro Hovhannisyan* (ghovhann@kent.edu), 6000 Frank Ave, NW, North Canton, OH 44720. Integration of nonlinear equations on a time scale by inverse scattering method. Preliminary report.
By using Ablowitz-Ladik hierarchy we derive time-space scale versions of nonlinear Schrodinger, Toda lattice and some other dynamic equations. Extending the inverse scattering method we describe the solutions of these nonlinear dynamic equations on a time-space scale. (Received September 03, 2014)