1116-35-1546   **Alexey Sukhinin*** (`asukhinin@smu.edu`), Southern Methodist University, Department of Mathematics, Dallas, TX 75275. *Spatial and temporal resolution analysis of collapsing high intensity pulses.* Preliminary report.

High intensity laser pulse tends to self focus during propagation in nonlinear media such as atmosphere. This fact is described by (2+1)D Nonlinear Schrodinger Equation (NLS). In my talk I will discuss self-focusing of two co-propagating high intensity pulses, their temporal dynamics and filamentation process. (Received September 20, 2015)