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Svetlana Roudenko*, Department of Mathematics, Washington, DC 20052. *Dynamics of blow up solutions in the 3d focusing NLS equation.*

We consider the focusing nonlinear Schroedinger equation with finite energy initial data in 3d (the mass-supercritical regime) and discuss the dynamics of the contracting sphere blow-up solution (joint work with Justin Holmer and Galina Perelman). Such blow-up solutions can have an arbitrary mass. (Received January 29, 2014)