1075-35-86 **Vedran Sohinger*** (vedrangustav@gmail.com), University of Pennsylvania Mathematics Dept., D. Rittenhouse Lab, 209 S 33rd St., Philadelphia, PA 19104, and **Gigliola Staffilani** (gigliola@math.mit.edu), MIT Math Dept. Building 2, 77 Massachusetts Avenue, Cambridge, MA 02139. *On the uniqueness of solutions to the 3D periodic Gross-Pitaevskii hierarchy.*

In this talk, we present a uniqueness result for solutions to the Gross-Pitaevskii hierarchy on the three-dimensional torus, under the assumption of an a priori spacetime bound. We show that this a priori bound is satisfied for factorized solutions coming from a solution of the nonlinear Schrodinger equation. This is the periodic analogue of the uniqueness result on $\mathbb{R}^3$ previously proved by Klainerman and Machedon. This is joint work with Gigliola Staffilani. (Received August 23, 2011)