

1139-35-241

**Benjamin Dodson** and **Jason Murphy\***, Department of Mathematics and Statistics, Missouri University of Science and Technology, Rolla, MO 65409. *Scattering below the ground state threshold for nonlinear Schrödinger equations.*

We discuss scattering below the ground state threshold for nonlinear Schrödinger equations. In joint work with B. Dodson, we have found simple proofs of results obtained previously by Duyckaerts, Holmer, Roudenko (and others). In particular, by using suitable virial/Morawetz estimates and scattering criteria, we are able to avoid the use of concentration-compactness. (Received February 12, 2018)