

1163-35-705

Satoshi Masaki, Jason Murphy* (jason.murphy@mst.edu) and **Jun-ichi Segata.** *Asymptotic stability of solitary waves for the 1d NLS with an attractive delta potential.*

We consider the 1d nonlinear Schrödinger equation with an attractive delta potential and mass-supercritical nonlinearity. This equation admits a one-parameter family of solitary wave solutions in both the focusing and defocusing cases. We will discuss some recent progress on the problem of asymptotic stability for these solitary waves. This is joint work with S. Masaki and J. Segata. (Received September 11, 2020)