

Monotonicity of Standing waves for the nonlinear fractional Schrödinger equations

Yajie Zhang¹, Feiyao Ma¹, and Weifeng Wo¹

¹Ningbo University

August 3, 2020

Abstract

In this paper, we investigate the standing waves of fractional Laplacian Schrödinger equations. The monotonicity of standing waves of fractional Schrödinger equations was obtained by using sliding method. In addition, non-existence result of standing waves is presented.

Hosted file

document.pdf available at <https://authorea.com/users/348458/articles/473755-monotonicity-of-standing-waves-for-the-nonlinear-fractional-schr%C3%B6dinger-equations>