

Speaker: Elliott Hollifield

Affiliation: UNC-Greensboro

Email: ezhollif@uncg.edu

Title: Solutions for a class of fractional Laplacian problems

Coauthors: Maya Chhetri, Petr Girg

Abstract: We discuss the existence of positive solutions to nonlinear fractional Laplacian problems with Dirichlet external condition. We use degree theory combined with a re-scaling technique to show the existence of positive weak solutions for a class of superlinear problem when the bifurcation parameter is small.