Analysis Seminar

Title: Nonlocal Pertubations of Fractional Choquard Equation

Speaker: G. Singh

Date: Tue 28th November 2017 at 3:00PM

Location: SCN 125

Abstract: We study the Nonlocal Fractional Choquard equation. These kind of problems (involving fractional Laplace and nonlocal operators) arise in various applications, such as continuum mechanics, phase transitions, population dynamics, optimization, finance and many others. First, the existence of a groundstate solutions using minimization method on the associated Nehari manifold is obtained. Next, the existence of least energy sign-changing solutions is investigated by considering the Nehari nodal set.