WNDE - Workshop in Nonlinear Differential Equation UFPB - Universidade Federal da Paraíba Edition IX, João Pessoa - Brazil, September 17-21, 2012

AN ABSTRACT NONLINEAR THEOREM AND TWO APPLICATIONS

PATRICK McKenna *

In this talk, I will present a abstract multiplicity theorem that applies in surprising generality to various, semilinear problems, including non-local types involving fractional exponents of the Laplacian various open problems will also be mentioned. The main tools will be orthogonal projections and and contraction mapping theorem.

 $^{{\}rm *Department\ of\ Mathematics,\ University\ of\ Connecticut,\ email:\ mckenna@math.uconn.edu}$