

QUASILINEAR ELLIPTIC PROBLEMS USING THE NEHARI METHOD

EDCARLOS D. DA SILVA *

In this talk we consider existence, multiplicity and asymptotic behavior of nonnegative solutions for a quasilinear elliptic problems driven by the Φ -Laplacian operator. One of these solutions is obtained as ground state solution by applying the well known Nehari method. The nonlinear term can be a concave-convex function which presents subcritical or critical behavior at infinity. The concentration compactness principle is used in order to recover the compactness required in variational methods.

Joint work with J. V. Goncalvez (UFG), M. L. Carvalho (UFG) and C. Goulart (UFG).