

On a Hardy–Sobolev type inequality and applications

Everaldo Souto de Medeiros*
Department of Mathematics
Universidade Federal da Paraíba
João Pessoa, Brazil

Abstract

In this talk, we will prove a Hardy-Sobolev type inequality in the borderline case. We will use this inequality to address the existence of solutions for a class of quasilinear elliptic problems in an exterior domain with Robin boundary condition. ¹

*Partially supported by CNPq, e-mail: everaldomedeiros1@gmail.com

¹This is a joint work with Jonison Lucas Carvalho (UFPB) and Marcerlo Fernandes Furtado (UnB)