Multiple positive solutions of Brezis-Nirenberg type problems involving sign-changing weight functions

Yi-Hsin Cheng National University of Kaohsiung <u>d0984103@mail.nuk.edu.tw</u>

Abstract:

We are concerned with the multiplicity of positive solutions of a semilinear elliptic equation with an H¹ boundary data supported in a smooth bounded domain of R^N. The existence of k positive solutions if established for eigenvalue in a certain range, provided that the coefficients of the equation satisfy certain maximum condition.