

SOME ELIPTIC PROBLEMS MODELED IN HYPERBOLIC SPACES

In this talk, we will discuss some elliptic problems modeled in hyperbolic spaces such as, Brezis-Nirenberg problems, Henon problems, and Kirchoff problems.

In the variational methods point of view, we raise out some difficulties, such as, the lost of the compactness and natural singularities, and how to overcome these difficulties.

The talk is based on several the joint papers in collaboration with: Paulo C. Carrião and André Vicente, (from UNIOESTE), Augusto Costa(from UFPA), and Luiz Fernando Faria (from UFJF).