

DEPARTAMENTO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA





SEMINARIO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA

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BVPs vs. periodic problems through different topological methods

During the last fifty years, a wide range of topological methods have been developed and sharpened for the analysis of differential equations. While for boundary value problems bifurcation theory has turned out to be a very important tool, for periodic problems a classical approach has been the use of the Poincaré-Birkhoff theorem and the Conley-Zehnder index in order to get existence and multiplicity of periodic solutions.

In this talk, we present different BVPs analyzed by the use of bifurcation results and some periodic problems in which both a classical and a bifurcation approach have been applied. This is a joint work with J. López-Gómez (UCM), A. Boscaggin (Università di Torino) and F. Zanolin (Università di Udine)

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