SEMINÁRIO
ANÁLISE E EQUAÇÕES DIFERENCIAIS

16 de Dezembro | 13h30 | sala 6.2.33

An equation with many interesting aspects

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Abstract:

The Hénon equation, used for modeling some phenomena in astrophysics, is an excellent prototype for the investigation/introduction of some important problems on the qualitative analysis of solutions of elliptic partial differential equations. In this lecture I will address the following themes: The critical exponent for the Hénon equation; The symmetry of the least energy solutions; The symmetry of the least energy nodal solutions; The Morse index of radial nodal solutions; Some concentration phenomena.

CMAFcIO

FCT Fundação para a Ciência e a Tecnologia