Grupo de Física Matemática
da Universidade de Lisboa

SEMINÁRIO DE FÍSICA-MATEMÁTICA

Dia **17 de Junho de 2011** (sexta-feira), às **14h30m**, na **Sala A2-25**

"Geometrical views on the Nehari manifold"

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Abstract

Critical points of some classical Euler-Lagrange functionals related to

$$-\Delta u = f(u)$$

belong to an hypersurface of $H_0^1(\Omega)$, the so-called Nehari manifold. In this talk we present a description of it using elementary tools of differential geometry. Also, we analise the behaviour of "angular decreasing" flows in the case where f is homogeneous. Our results reflect an intermediate stage of research.

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