



Mês de: **OUTUBRO 2012**

**SEMINÁRIO DE ANÁLISE E EQUAÇÕES
DIFERENCIAIS**

Dia 4 de Outubro (quinta-feira), às 13h30, na Sala B3-01

Existence of four solutions of a Schrodinger-Poisson system involving the
critical Sobolev exponent

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Abstract:

We discuss recent multiplicity results for an elliptic system on the 3-dimensional euclidean space, which is the coupling of a Schrodinger equation, involving a term with the critical Sobolev exponent, and a Poisson equation. We prove the existence of one positive, one negative and two sign-changing solutions, under some suitable restrictions on the parameters. This is a joint work with L. Huang (PhD student at Univ. of Aveiro).

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