



**Mês de: Junho 2010**

## **SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS**

**Dia 7 de Junho (segunda-feira), às 14h15, na Sala B3-01**

“Radial solutions of Dirichlet problems with concave-convex nonlinearities”

**Francesca Dalbono**

(CMAF)

**Abstract:**

We prove the existence of a double infinite sequence of radial solutions for a Dirichlet concave-convex problem associated with an elliptic equation in a ball of  $R^n$ . We are interested in relaxing the classical positivity condition on the weights, by allowing the weights to vanish.

The idea is to develop a topological method and to use the concept of rotation number. The solutions are characterized by their nodal properties.

**Atenção ao dia**

Parcialmente suportado pela FCT ao abrigo do Financiamento Base

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