



Mês de: Julho 2009

SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

Dia 2 de Julho (quinta-feira), às 14h15, na Sala B3-01

“Sign changing solutions and multiplicity results for elliptic problems via lower and upper solutions”

Colette De Coster

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Abstract:

In the first part of this talk, we recall variational methods related to lower and upper solutions. In the second part of the work, we consider an elliptic Dirichlet problem in a situation where the origin is a solution around which the nonlinearity has a slope between two consecutive eigenvalues of order larger than 2 and near $+\infty$ the slope of the nonlinearity is smaller than the first eigenvalue. Then we discuss the conditions needed near $-\infty$ in order to ensure the existence of a positive solution and two sign-changing solutions.

Parcialmente suportado pela FCT ao abrigo do Financiamento Base

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