



Departamento
de Matemática
Aplicada



Seminario de Matemática Aplicada

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Uniqueness results for classes of singular semipositone problems

Abstract:

We study positive solutions to singular boundary value problems of the form

$$\begin{cases} -u''(s) = \lambda h(s)f(u(s)); & 0 < s < 1 \\ u(0) = u(1) = 0 \end{cases}$$

where $\lambda > 0$ and $f(0) < 0$ (semipositone). For classes of nonlinearities f that are sublinear at ∞ and classes of h that are singular at 0, we will discuss uniqueness results for positive solutions when λ is large.

Organizado por el grupo de investigación MOMAT y el IMI

Jueves 13 de junio de 2013, a las 12:00 hs
Aula Alberto Dou (Seminario 209)
Facultad de CC Matemáticas, UCM