



Departamento de Matemática Aplicada

Seminario
Matemática Aplicada - UCM

Curso 2013-2014

Jueves 3 de abril de 2014

Facultad de CC. Matemáticas
Sala 209. Seminario Alberto Dou

11:00. Pier D. Lamberti

Dipartimento di Matematica. Università degli Studi di
Padova. Italia.

**“Stability for higher order elliptic operators subject
to homogeneous boundary conditions on varying
domains”**

Abstract:

We consider elliptic partial differential operators of second and higher order, subject to homogeneous boundary conditions on bounded domains of the N -dimensional Euclidean space. We discuss a general theorem ensuring their spectral stability upon perturbation of the underlying domain, in the frame of the so-called E -compact convergence. Applications to the case of the bi-harmonic operator with Dirichlet, Neumann and Intermediate boundary conditions will be considered.

Organiza:

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