



ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
ΤΜΗΜΑ ΜΑΘΗΜΑΤΙΚΩΝ
ΠΑΝΕΠΙΣΤΗΜΙΟΠΟΛΗ ΑΘΗΝΑ 15784
TEL +30210-7276-386, FAX +30210-7276-410

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Ομιλία Γενικού Σεμιναρίου

Ομιλητής: Καθηγητής Α.Γ. Καρτσάτος
(Πανεπιστήμιο South Florida, TAMPA, USA)

Τίτλος: «Nonlinear Accretive Operators and Functional Evolution Problems in Banach Spaces»

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Abstract:

This is a survey of results on the first-order nonlinear functional evolution problem in a Banach space X . The main operator of the problem is of accretive type and is defined on a subset of the space X with values in X . Several results of the author and his collaborators, involving the direct approach to the functional evolution problem, are stated. In particular, we mention the result of the author of 1995 involving the first direct and verifiable criteria for the compactness of the nonlinear Crandall-Pazy evolution operator. An example is also given for a time-dependent perturbation of the generalized Laplacian that generates a compact evolution operator.