ΕΘΝΙΚΟ ΜΕΤΣΟΒΙΟ ΠΟΛΥΤΕΧΝΕΙΟ ΣΧΟΛΗ ΕΦΑΡΜΟΣΜΕΝΩΝ ΜΑΘΗΜΑΤΙΚΩΝ ΚΑΙ ΦΥΣΙΚΩΝ ΕΠΙΣΤΗΜΩΝ ΤΟΜΕΑΣ ΜΑΘΗΜΑΤΙΚΩΝ Ηρώων Πολυτεχνείου 5 Πολυτεχνειούπολη Ζωγράφου, Κτήριο Ε

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Αθήνα, 2/10/2018

ΔΙΑΛΕΞΗ

<u>Ομιλητής:</u> Κώστας Κουμάτος, University of Sussex

<u>Τίτλος:</u> « Quasiconvex elastodynamics: weak-strong uniqueness for dissipative measure-valued solutions»

<u>Περίληψη:</u> A weak-strong uniqueness result is presented for a class of measure-valued solutions to the system of conservation laws arising in elastodynamics. The main novelty of this work is that the underlying stored-energy function is assumed strongly quasiconvex, a natural condition in elasticity, yet one not amenable to typical techniques in hyperbolic theory which are based on convexity. The proof borrows tools from the calculus of variations to prove a global Garding inequality for quasiconvex functions, and recasts them to adapt the relative entropy method to quasiconvex energies.

Η διάλεξη θα δοθεί την Παρασκευή 5 Οκτωβρίου 2018 & ώρα 13:35, στην Αίθουσα Σεμιναρίων του Τομέα Μαθηματικών, κτ. Ε΄, 2ος όροφος.

Η Επιτροπή Σεμιναρίων