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

TK. 157 73, AOHNA



NATIONAL TECHNICAL UNIVERSITY OF ATHENS SCHOOL OF APPLIED MATHEMATICAL AND PHYSICAL SCIENCES DEPARTMENT OF MATHEMATICS 5, Heroes of Polytechniou Avenue Zografou Campus, E Building GR.-157 73 ATHENS, GREECE

2: + 30 210 772 1748, 1744, 3291 - Telefax: + 30 210 77 21775

Αθήνα, 17/10/2016

ΔΙΑΛΕΞΗ

Ομιλήτρια: Βάλια Μήτσου

Hungarian Academy of Sciences

<u>Τίτλος</u>: «Choosability: a hard graph coloring problem»

<u>Περίληψη</u>: Choosability, independently introduced by Vizing in 1976 and by Erdős, Rubin, and Taylor in 1979 is a well-studied graph theoretic concept. We say that a graph G is *k-choosable* if for any assignment of lists of k colors on the verices of G we can to pick one color from each vertex' list such that for every edge its endpoints receive different colors. We will present a number of graph theoretic and algorithmic results on the choosability problem and its generalization choosability deletion. This talk is based on recent work jointly done with Dr. Dániel Marx ("Double-exponential and triple-exponential bounds for choosability problems parameterized by treewidth") which was presented at the conference ICALP 2016.

Η ομιλία θα δοθεί την **Παρασκευή 21 Οκτωβρίου 2016** και **ώρα 13:35**, στην Αίθουσα Σεμιναρίων του Τομέα Μαθηματικών, κτ. Ε΄, 2ος όροφος.

Η Επιτροπή Σεμιναρίων