



ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

Τετάρτη 13 Δεκεμβρίου 2017

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Αίθουσα Α₃₁

Κύκλος σεμιναρίων

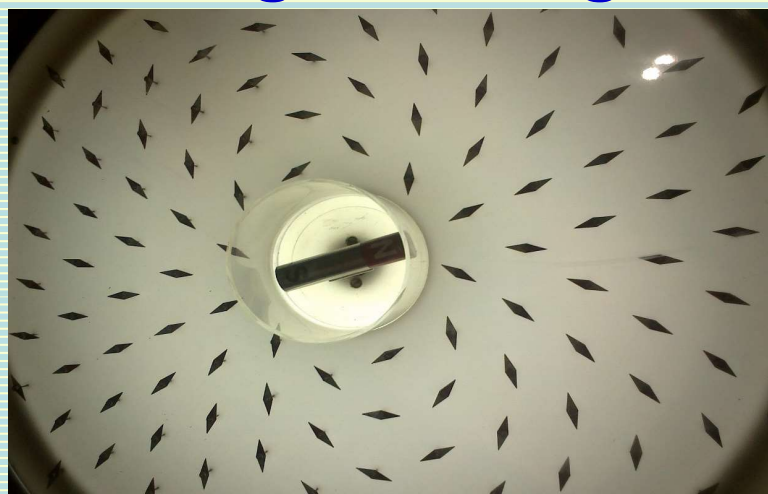


... ένα ταξίδι
σύγχρονης

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Φυσικής

στο Τμήμα Φυσικής

The Magic of Magnets



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Magnets, which for many years have been considered as mysterious objects, have played a key role in the development of our modern technology. Today, magnets are an integral part of our life. This lecture will discuss briefly the fundamentals of magnetism, the historical development of magnets and their numeral important uses as permanent magnets, magnetic recording media and lately biomedical applications.

Το προφίλ του ομιλητή



George Hadjipanayis received the B.Sc. degree in Physics from the University of Athens (1969), and the M.Sc. and Ph.D. degrees in Physics from the University of Manitoba (Canada), in 1974 and 1979, respectively. Prof. Hadjipanayis was an assistant professor (1982-1985) and associate professor (1986-1988) in the Department of Physics at Kansas State University. In 1989 he joined the faculty of the University of Delaware as a full professor. In 1998, Prof. Hadjipanayis was a Humboldt Senior Fellow at the Max Planck institute (Stuttgart, Germany). In 1999, he assumed the position of Richard B. Murray Distinguished Professor of Physics and Astronomy and since 2003 has been the Chair of the Department of Physics and Astronomy at the University of Delaware. He has been recognized for seminal advances in scholarship with the Francis Alison Award (2005) and by elevation to Fellow of the American Physical Society (2001). Prof. Hadjipanayis' areas of interest span hard magnetic materials with a focus on high performance permanent magnets and magnetic nanoparticles for storage media and biomedical applications. He has published more than 500 technical articles in peer-reviewed science and engineering journals, including book chapters, review articles, and invited technical feature articles on the topical areas of rare earth magnetism, nanotechnology, and permanent magnet materials, among others.