



Geofizički odsjek

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O B A V I J E S T

Dana **17.2.2011. (četvrtak!)** u **14¹⁵** održat će se u okviru seminara i kolokvija na Geofizičkom odsjeku PMF-a sljedeće izlaganje:

Dr. Miguel Teixeira

(Centro de Geofísica da Universidade de Lisboa, Portugal):

Amplification of mountain waves by Scorer parameter resonance

ABSTRACT: Among the many processes leading to high-drag configurations in stratified flow over topography, one of the most recently revisited is that associated with a Scorer parameter that oscillates in the vertical, even if with a small amplitude. It was suggested by previous authors that the process whereby the flow perturbations and the resulting drag are amplified is intrinsically nonlinear. In this talk I will show that this process is related with parametric resonance, and may be captured in a linearized framework using a perturbation approach. The behaviour of mountain wave drag, of the surface pressure and of the flow perturbations is analyzed using linear theory and numerical simulations. Emphasis is placed on the effect of friction, which turns out to be crucial for the production of some drag maxima.

Pozivaju se studenti, apsolventi i svi zainteresirani da prisustvuju predavanju, koje će se održati u predavaoni br. 2 Geofizičkog odsjeka PMF-a, Horvatovac 95, Zagreb. Studentima 2. godine diplomskog sveučilišnog studija fizika - geofizika je prisustvovanje predavanjima u sklopu Geofizičkog seminara obavezno.