



ΓΕΝΙΚΟ ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ ΦΥΣΙΚΗΣ

# *PHYSICS COLLOQUIUM*

Thursday 16 November 2006  
17:00-18:00

3<sup>rd</sup> Floor Seminar Room

*“In-vivo Optical Tomography”*

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## ABSTRACT

During the past few years new techniques that make use of light to obtain 3D images in-vivo have been developed, mainly targeted to image fluorophore concentration in small non-scattering specimens in the mm range or large specimens in the high scattering regime. In this talk the basics for performing optical tomography in the low and high scattering regimes will be presented, together with some in-vivo results in C-elegans, Drosophila and mice. Some examples of translation to human health will be discussed.