



## AVVISO DI SEMINARIO

Il giorno martedì 9 gennaio 2018 alle ore 11:00  
presso l'Area della Ricerca CNR di Pisa, Aula 33, piano Terra, Edificio "A"

*il Prof. Oleg Kosolov*

*Lancaster Physics Department, UK*

*terrà un seminario sul tema:*

# **Scanning probe microscopy: nano-measurements beyond surface topography**

### ABSTRACT

In this talk we discuss capabilities of the scanning probe microscopy of measuring properties of materials and devices beyond the measurements of topography developed in Lancaster University with our collaborators. In particular, we discuss mapping of nanoscale mechanical properties of materials, exploring heat transport at nanoscale, and studying electromechanical phenomena in active structures such as piezo-electrics, ferroelectrics and 2D materials capacitors. The possibility and approaches of looking beyond the materials immediate surface, which is one of AFM's challenges, is also discussed.