

# AVVISO DI SEMINARIO

Dipartimento di Fisica e Chimica  
Viale delle Scienze Edificio 18  
Aula Magna  
Ore 15:00

## **Structural information on graphene-like materials from Electron Paramagnetic Resonance (EPR) methods**

Antonio Barbon  
*Dip. Scienze Chimiche, Università degli Studi di Padova*  
*Via Marzolo 1, 35131 Padova*  
*antonio.barbon@unipd.it*

Graphene is the most studied material of last decade because of its magnetic and electronic properties, that deserve promising technological applications. Nevertheless, high-quality graphene, *per se*, is rarely used because of both the lack of large scale productions, and because the properties of *real* graphenic-like materials are often better desired, in fact, by using different production methods, materials with a wider spreading of properties with respect to graphene can be obtained. What makes the difference between the different materials is in most cases the presence of defects.

Electron Paramagnetic Resonance is a valid tool to study and characterize graphenic-like materials. Example of application of the spectroscopy to the study of graphenic-like materials are given.

Correlations between the different measurements in different materials allow to identify the fingerprints of a selected variety of defects