

## 2. Analysis of the Raman bands of carbon nano-materials using the WITec Project and WITec Project Plus Software

Besides generating Raman images of graphene flakes, the WITec data analysis software provides algorithms which are useful for a detailed analysis of 2D Raman spectral arrays. As reported in the papers published on data obtained with a WITec alpha300 R microscope (see appendix), the Raman spectra of graphene provide precise information on the crystal structure, electronic band structure, the phonon energy dispersion, and the electron-phonon interaction in  $sp^2$  carbon systems. By monitoring the position, width, integrated intensity and line shape of the Raman features of the graphene layers, the number of layers, the linear dispersion of electronic energy, the crystal orientation, the doping, the defects, the strain, and the thermal conductivity can all be probed.

The most prominent peaks in the Raman spectrum of graphene are the G and G' bands, which are associated with the double degenerate in plane transverse optical phonon mode (TO) and longitudinal optical phonon mode (LO).

The intensity of the G band is directly proportional to the number of graphene layers and is thereby a measure for the number of layers in a graphene flake. By fitting a Lorentzian curve to the G band, a shift towards lower wavenumbers is observed with an increase of graphene layer numbers (Fig. 2).

The G' band is described by a single Lorentzian fit in the case of exfoliated graphene monolayer (Fig. 3a), whereas four Lorentzian curves are required for the fit of this Raman band in the case of bi- and multilayer (Fig. 3b and 3c) revealing the interplane phonon interaction.

Fig. 2: Variations in G-band position and G-band intensity in comparison with the height profile of the AFM topography image.

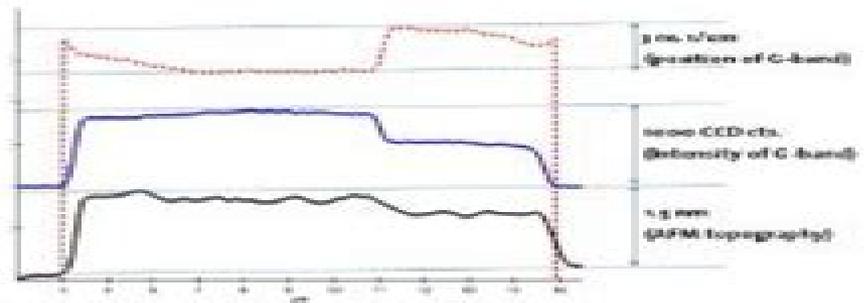
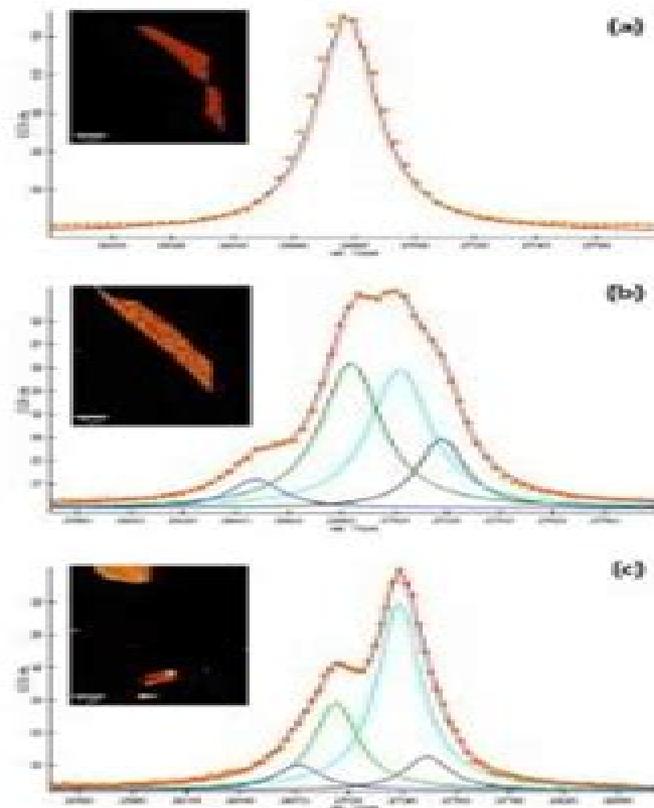


Fig. 3: Line shape of the G' band and Lorentzian fit of the 2D spectral array for (a) monolayer, (b) bi-layer, (c) multilayer of graphene.



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