

Hard X-ray Photoemission Spectroscopy on complex systems and buried interfaces : bulk sensitive results and the VOLPE project

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**Vendredi 23 mai à 15h00
Grand Amphi Soleil**

Conventional photoemission measurements on solids use photon energies of a few tens of eV up to 1keV, thus having access to information depth in the range of approximately 5-20 Å. Consequently, the near-surface region always plays an important role in the interpretation of the results. In recent years, Hard X-ray Photoemission (HAXPES) experiments, performed with kinetic energies of 6-9 keV and high energy resolution (60-200 meV), has proven to be an excellent tool to investigate bulk properties of solids (in particular highly correlated systems), yielding probing depth in the 50-150Å range. We report recent HAXPES results obtained on complex systems (such as transition metal oxides and buried interfaces), where the comparison between truly bulk sensitive core level and valence band spectra i) allows a reliable estimate of the electronic correlation term, ii) reveals the depth dependence of the electronic properties and of the screening mechanism, iii) allow a direct determination of the metal s state contributions to the density of states in simple oxides and organic/metallic interfaces.

Formalités d'entrée : accès libre dans l'amphi du Pavillon d'Accueil. Si la manifestation a lieu dans le Grand Amphi Soleil du Bâtiment Central, merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

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