Réunions scientifiques

Séminaires

Séminaire SOLEIL

Synchrotron radiation based core-level electron spectroscopy studies of aqueous solutions

G. ÖHRWALL

(MAX-lab, Lund University, Sweden)

Invité par Svante SVENSSON

Vendredi 27 Février 2009 à 15h00
Grand Amphi SOLEIL

Synchrotron radiation (SR) based experiments in the soft x-ray range have been very successful in studies of the electronic structure in the fields of molecular, surface and solid state physics. However, for liquid samples, only a few SR based experiments in the soft x-ray energy range have been performed, due to experimental problems. Recently, using a differentially pumped liquid micro-jet source, it has become able to perform core-level electron spectroscopy studies of water and other hydrogen-bonded systems.

Here I review some recent results from experiments using such a setup at the beamline I411 of the Swedish synchrotron laboratory MAX-lab. Among other things, an investigation into the pH-dependent protonation/deprotonation of aqueous glycine, using XPS, and a study of the Auger decay of aqueous potassium halide solutions, where the electrons from the surrounding water molecules take part in the decay of the core-ionized potassium ion, but not of the halide ion, will be presented.

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).*

SYNCHROTRON SOLEIL
Division Expériences - L'Orme des merisiers - Saint-Aubin - BP 48 – 91192 GIF S/YVETTE Cedex
http://www.synchrotron-soleil.fr/portal/page/portal/Soleil/ToutesActualites
Secrétariat Division Expériences : sandrine.vasseur@synchrotron-soleil.fr