

Core-hole chemistry : structure and dynamics of core-hole systems.

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Grand Amphi Soleil

3rd generation X-ray sources allow us to study electronic structures of molecules in great detail. Influence of chemical bonds and molecular orbital orientation can be observed by subtle changes in deexcitation decay rates, or lifetimes, of the core-hole systems and small splittings of nearly degenerate states. Such a study for the diatomic molecule Cl₂ will be presented.

The processes related to transient core-excited species occur on a very short timescale set by their intrinsic lifetime of a few femtoseconds. Could such a short timescale be sufficient for relatively large rearrangements and conformational changes in the core-excited systems? A study by resonant Auger spectroscopy for one of the candidate systems 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).

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