

Complex intermetallic compounds: from surface structures to surface properties

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Amphithéâtre SOLEIL

Complex intermetallic compounds are a class of ordered alloys consisting of quasicrystals and periodic crystals with large unit cells. Their specific structures, which are best described by a stacking of highly symmetric polyhedra and/or a network of bonds with a covalent-like character, are responsible for unusual surface properties – at least when compared to those of conventional alloys. Complex intermetallic compounds surfaces are then currently considered for a number of applications, such as efficient coatings, as templates for building new molecular nano-structures or as novel catalytic materials. The detailed knowledge of the surface structure is a necessary step for further studies of surface properties. In this talk, I will show that the combination of experimental and theoretical methods is extremely useful to determine the surface structures, as well as to unveil how the surface properties are controlled by their geometric and electronic structures.



Ce séminaire sera suivi d'une pause café

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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