

Band structure approach to XMCD spectra of Heusler alloys

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Invité par Jean-Pascal RUEFF

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Amphi Pavillon d'Accueil Soleil

Abstract:

In this talk I would like to show how XMCD spectra can be calculated from underlying band structure on the particular example of the spin-polarized relativistic LMTO method. Then, calculated XAS and XMCD spectra of some Heusler alloys are presented and compared to experimental ones. The accuracy of XMCD sum rules is examined by applying the sum rules to calculated spectra and comparing thus obtained spin and orbital magnetic moments to those derived directly from band structure calculations. Also the effect of the spin-splitting of core 2p levels on calculated Cr L_{2,3} spectra is discussed.

Formalités d'entrée : accès libre dans l'amphi du Pavillon d'Accueil. Si la manifestation a lieu dans le Grand Amphi Soleil du Batiment Central, merci de vous munir d'une pièce d'identité et de prévenir le secrétariat en charge de l'événement.

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