Réunions scientifiques

Séminaires

*Séminaire SOLEIL*

# " New spectrometer system for simultaneous 1D spin- and 2D angle-resolved photoemission "


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***Invité par James ABLETT***

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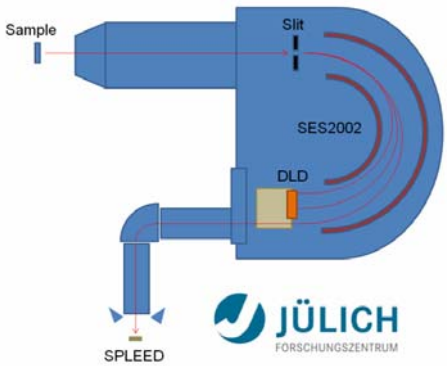
## Petit Amphi SOLEIL – Bât. Accueil


The new spectrometer system allows simultaneous detection of a 1D spin-resolved EDC and a 2D angular map. A state-of-the-art Scienta SES2002 analyzer is used as an energy filter. Its original scintillator detector has been replaced by a delay-line-detector (DLD), and part of the electron beam is allowed to pass through to reach the SPLEED spin-detector mounted subsequently. In the standard SES2002 lens mode the angular resolution in SPLEED is ±1 and the electron optics between DLD and SPLEED contain the 90-degree deflector to allow simultaneous detection of in-plane and out-of-plane spin components. In this talk we will demonstrate the performance of the system on several examples including Co/Cu(001) (combination of SPPES and linear dichroism), Fe/Ag(001) (system with large exchange splitting), and Ni/Cu(001) (in-plane to out-of-plane spin-reorientation transition), high resolution ARPES on Cu(001), and regular core-level x-ray photoemission for chemical analysis.


***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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