

Séminaire SOLEIL

Jungfrau, Mönch and Eiger : Detector Development at the Swiss Light Source

Bernd SCHMITT

(Paul Scherrer Institut, SLS Detector Group, Villigen-PSI, Suisse)

Invité par Stéphanie HUSTACHE

Lundi 15 décembre à 14h00

Grand Amphi SOLEIL

The detector group of the Swiss Light Source at the Paul Scherrer Institute has a long history in the development of hybrid single photon counting x-ray detectors (Mythen, Pilatus and Eiger). In the recent years our focus moved to charge integrating hybrid pixel detectors (Gotthard, Jungfrau and Mönch) due to the upcoming XFELs where single photon counting detectors will no longer work. Charge integrating detectors solve several problems of single photon counting detectors specifically limits in count rate capability, pixel size and electronic noise. I will present the single photon counting Eiger detector and then focus on the charge integrating pixel detectors Jungfrau and Mönch. Mönch has a small pixel size of 25 micron and a noise of 30 electrons and is getting into areas which up to now were only accessible with CCDs or maps. An outlook of the possibilities which the new detector systems offer and possible future detector developments will also be presented.



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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Division Expériences - L'Orme des merisiers - Saint-Aubin - BP 48 - 91192 GIF S/YVETTE Cedex

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Secrétariat Division Expériences : sandrine.vasseur@synchrotron-soleil.fr