First test at a beamline of a new X-ray fluorescence imaging technique, in full-field mode

SEMINAIRE

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Amphithéâtre SOLEIL

This study represented the first test achieved at a beamline worldwide of a new full-field X-ray fluorescence (XRF) technique where a Fresnel Zone Plate (FZP) is employed as a coded aperture. This approach offers multiple advantages compared to other available XRF imaging techniques, which will be reviewed in the presentation. We optimized the basic form of the reconstruction algorithm. Additionnally, hyperspectral XANES mapping was tested, also for the first time, using this new imaging method. The corresponding results & potential approaches to optimize them will be presented. This project represented a collaborative work between different groups of Synchrotron SOLEIL, including SAMBA beamline, Detector Group, Chemistry Laboratory Group, & Metrology beamline.

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 piece d'identité (à échanger à l'accueil contre un badge d'accès).

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