SEMINAIRE

Spatio-temporal imaging of strain and structure in devices and nanostructures by X-ray nano diffraction imaging methods

Tobias U. SCHÜLLI
(ESRF, Grenoble)

Mardi 16 décembre 2025 – 14h00
Amphithéâtre SOLEIL

Spatially resolving X-ray diffraction based tools are of relevance for the characterization of most emerging nanomaterials or electronic devices. While typical samples for these techniques are microelectronic structures, the resolving power has proven to reach down to length scales relevant for catalysis and basic solid state chemistry as encountered in most electrochemical systems. Beamline ID01 is specialized on the imaging of strain and structure under Bragg diffraction conditions. Most recent efforts show that high resolution in reciprocal and real space is now obtained on time scales allowing to follow operando in areas and on timescales ranging from Batteries (seconds to hours) down to sub nanosecond time resolved imaging of functioning electronic devices.

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).

SYNCHROTRON SOLEIL
Route départementale 128 - 91190 SAINT AUBIN
https://www.synchrotron-soleil.fr/fr/evenements
CONTACT : sandrine.vasseur@synchrotron-soleil.fr