

Benefits of coherence for imaging of complex natural and manufactured materials

Laurent J. MICHOT

(Laboratoire Phenix, CNRS Sorbonne Université, Paris)

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Most environmental materials as well as numerous building materials are multi-scale objects that are highly variable and heterogeneous. Understanding and predicting reactivity, transport, mechanical properties, etc... of such systems therefore requires the use of a combination of various simulation methods and characterization tools. Among those, X-ray imaging techniques in both the hard and soft X-ray range are particularly valuable. Furthermore, the increase in coherence provided by the new sources under development could open new and unique opportunities in the field. Based on a few selected examples, we will try to assess the potential of the use of highly coherent X-rays in the study of complex multiscale natural and manufactured materials.

SEMINAIRE

Formalités d'entrée : accès libre dans l'amphi du pavillon d'Accueil.

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CONTACT : sandrine.vasseur@synchrotron-soleil.fr