

Séminaire SOLEIL

Spectroscopy of unconventional solids by Infrared synchrotron radiation

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Invité par Pascale ROY

**Lundi 24 septembre à 14h00
Grand Amphi SOLEIL**

Séminaires

Recent infrared experiments on solids with unconventional properties, which span from the high-T_c cuprates to superconducting diamond, from manganites with charge order to the topological insulators, are briefly reviewed.

It will be shown that many of those measurements take a great advantage from the use of a broad-band, brilliant source like infrared synchrotron radiation, especially in the far-infrared and Terahertz ranges.

Among those experiments one can recall the determinations of superconducting gaps in low-T_c materials, the observation of Josephson plasma resonances, the detection of collective excitations of charge density waves; the observation of insulator-to-metal transitions induced by high pressure in diamond-anvil cells; the study of unexpected effects at the interface between different oxides, by use of ellipsometry and of spectroscopy at grazing angles.



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).

SYNCHROTRON SOLEIL

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