

Séminaire SOLEIL

"Identifying molecular structures in mass spectrometry using free electron laser IR spectroscopy"

Dr. J. OOMENS

(Molecular Dynamics Group leader, FOM Institute for Plasma Physics "Rijnhuizen", Nieuwegein, The Netherlands)

Invité par Olivier PIRALI

Lundi 7 septembre 2009 à 15h00
Grand Amphi SOLEIL

Séminaires

Mass spectrometry is one of the key analytical technologies in many branches of physics, chemistry and biology. While modern (tandem) mass spectrometers are able to determine molecular weights with ppm accuracies, information on the molecular structure is mostly limited to the primary structure. Identifying isomeric and/or conformeric structures using mass spectrometry methods alone is usually not possible.

IR spectroscopy, on the other hand, provides detailed information on the conformeric structure. To obtain IR spectra of ions in a mass spectrometer, we perform multiple-photon dissociation spectroscopy using the widely tunable output of the free electron laser FELIX at our institute. We will show several examples of how these methods are applied to biochemically interesting species, both cationic and anionic.

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

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

<http://www.synchrotron-soleil.fr/portal/page/portal/Soleil/ToutesActualites>

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