

ESI-MS:

A reverse periscope for a deep insight into organic reaction mechanisms in solution

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3 de junio de 2016

11:00 h

Sala de Grados de la Facultad de Ciencias (Edificio A)



CICLO CONFERENCIAS ISQCH 2016



Instituto de Síntesis Química y Catálisis Homogénea



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Abstract

Just as periscopes allow a submarine to visually search for objects above the surface of the sea, in a reversed periscope fashion electrospray mass spectrometry (ESI-MS) can analyze the compounds at the gas phase/liquid phase interface for chemical entities which may exist in solution. The challenge is the identification and structural characterization of key elusive reaction intermediates in chemical transformations, intermediates which are able to explain how chemical processes occur.