

23th January 2014 - 10:00 Building 99, Seminar Room I+II (EG)

Alberto Lesarri

Faculdad de Ciencias, Universidad de Valladolid, Spain

STRUCTURAL CHEMISTRY AND ROTATIONAL SPECTROSCOPY: WHAT'S NEW?

This talk will present an overview of the capabilities of microwave (MW) spectroscopy today. In the last decade the scope of MW spectroscopy has expanded considerably, associated to technical improvements and order-of-magnitude gains in sensitivity and bandwidth. As a result, different kinds of structural problems are now tractable. The discussion will be limited to the structural investigation of neutral biochemical buildingblocks, examining how far we are of treating molecular systems of real chemical interest, i.e., biologically functioning molecules. In particular, results will be presented on 7membered puckered rings, 6-membered pyranoses found in sugars, bicyclic decane motifs found in hormones and dimers and trimers like $(sevoflurane)_2$, sevoflurane...benzene, (phenol)₂ and (phenol)₃.



Host: Melanie Schnell - CFEL Molecular Physics seminar