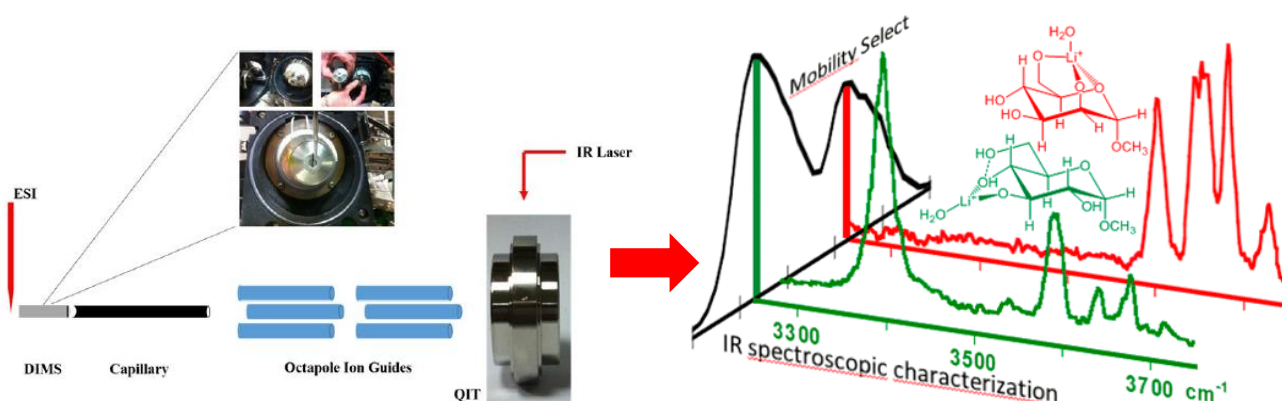


# Mass and isomer resolved IRMPD spectroscopy in gas phase ions

Location: Laboratory of Physical Chemistry, Bat. 200, UPSUD, Orsay

Researcher in charge of the Trainees: P. Maître, F. Berthias

Maximum number of Trainees: 3



## Experiment:

The CLIO II experiment is designed to separate and identify isomers in the gas phase. It integrates differential ion mobility Spectrometry (DIMS) and IR activation on the same ion quadrupole mass analyzer thus providing two additional dimensions to tandem mass spectrometry.

## Schedule expected:

The Trainees will participate to the measurement of the IRMPD spectrum of a model molecule after a mass and isomer separation. They will proceed to the data treatment and to the interpretation of the experimental results.

## References:

[1] O. Hernandez, S. Isenberg, V. Steinmetz, G. Glish and P. Maître, "Probing Mobility selected Saccharide Isomers: Selective Ion-Molecule Reactions and Wavelength-specific IR activation" *J. Phys. Chem A* 119, 6057-6067 (2015).