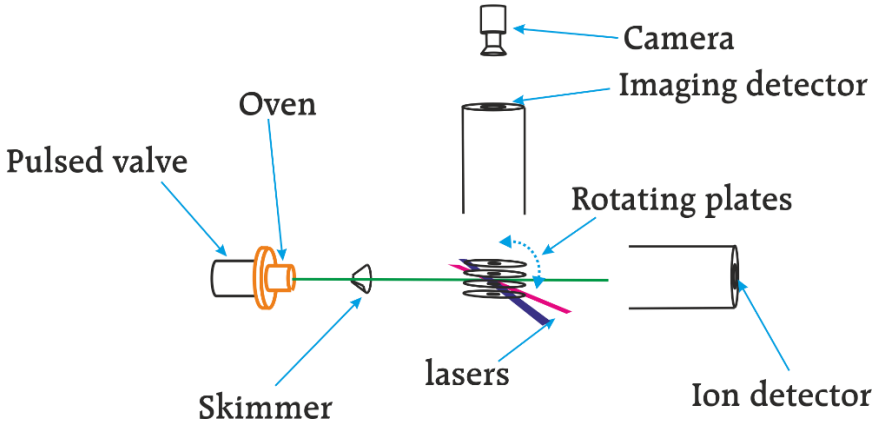
Time-resolved relaxation dynamics in gas phase

Location: CEA Saclay

Researcher in charge of the Trainees: Dr. Barbara Cunha de Miranda

Maximum number of Trainees: 3

Experiment:



The “FEMTO” experiment is designed to monitor the time-resolved relaxation dynamics of molecular systems by mean of the photoelectron/ion spectroscopy or the mass spectroscopy. It couples a pulsed valve and a Velocity Map Imaging Spectrometer with two femtosecond laser pulses delayed as for a pump/probe scheme.

Schedule expected:

The Trainees will participate the measurement of a relaxation dynamics of a model molecule. They will proceed to the data treatment and to the interpretation of the decays observed.

References:

[1] A. Lietard, G. Piani, L. Poisson, B. Soep, J. M. Mestdagh, S. Aloise, A. Perrier, D. Jacquemin, M. Takeshita, Phys. Chem. Chem. Phys. 2014, 16, 22262-22272.

[2] S. Awali, M. A. Gaveau, M. Briant, J. M. Mestdagh, B. Soep, O. Gobert, R. Maksimenka, L. Poisson, Phys. Chem. Chem. Phys. 2016, 18, 32378 - 32386.