



Prof. Attila Czászár
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Cc: Prof. Sonia Coriani
Department of Chemistry, Technical University of Denmark
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Villeneuve d'Ascq, January 9, 2019

Subject: Letter of support for STSM

Dear Prof. Czászár

It is my pleasure to invite PhD student Marta Lopez Vidal to visit the theoretical chemical physics (PCMT) group at the *Laboratoire de Physique des Lasers, Atomes et Molécules* (PhLAM), at the university of Lille.

Miss Lopez Vidal is currently a PhD student in the group of Prof. Sonia Coriani at the chemistry department of the Technical University of Denmark, and will be visiting us from February 1 to February 28 to work on the project ***Efficient Simulation of Core Spectroscopies with Relativistic Electronic Structure Methods***.

As outlined in the attached research plan, Miss Lopez Vidal will work on the formulation and implementation, of a core-valence separation scheme within 4-component EOM-CCSD theory, that will allow us accurately and efficiently compute core ionized and excited spectra, including L-edge and M-edge spectra, for elements across in the whole periodic table.

The implementation will be realized within the Dirac program package for relativistic calculations (<http://diracprogram.org>).

During her stay, Miss Lopez Vidal will have access to office space equipped with a desktop computer and full internet access, plus access to large scale computing resources.

I remain at your disposal for any further clarifications you may deem necessary.

Sincerely yours,

André Severo Pereira Gomes
Chargé de Recherche CNRS