

# Enzo Monino

Toulouse, France

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Montpellier, France \* 06-06-1997

## Education

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**PhD in Theoretical Chemistry**

*2020 - Today*

*Université de Toulouse (France)*

**Master's degree in Theoretical Chemistry**

*2018 - 2020*

*Université de Montpellier (France)*

**Bachelor's degree in Physics and Chemistry**

*2015 - 2018*

*Université de Montpellier (France)*

## Experience

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**Institut Charles Gerhardt Montpellier (ICGM)**

*Feb 2020 - Jul 2020*

*2nd year of Master degree internship*

*Montpellier, France*

- Studied Time-Dependent Density Functional Theory (TD-DFT).
- Studied orbital relaxation in the context of molecular electronic transitions computation.

**Laboratoire Univers et Particules de Montpellier (LUPM)**

*May 2019 - Jul 2019*

*1st year of Master degree internship*

*Montpellier, France*

- Studied quantum dynamics by wave packets.
- Computation of bound states of  $\text{HeH}_2^+$  complex using the Multi Configuration Time Dependent Hartree (MCTDH) approach.

## Posters

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**Symmetry breaking in Green's function methods: the case of  $\text{H}_2$**

2nd General Meeting of the GDR NBODY, Toulouse (France), Jan 10-13, 2022

E. Monino and P. F. Loos.

**Reference Energies for Cyclobutadiene: Automerization and Excited States**

Meetings of Francophone Theoretical Chemists, Bordeaux (France), Jun 27 - Jul 01, 2022

E. Monino, M. Boggio-Pasqua, A. Scemama, D. Jacquemin and P. F. Loos.

**Unphysical Discontinuities, Intruder States and Regularization in  $\text{GW}$  Methods**

World Association of Theoretical and Computational Chemists (WATOC), Vancouver (Canada), Jul 03 - 08, 2022

E. Monino and P. F. Loos.

**Spin-Conserved and Spin-Flip Optical Excitations From the Bethe-Salpeter Equation Formalism**

New Horizons In Scientific Software (NHSS), Jeju (Korea), Dec 12-15, 2022

E. Monino and P. F. Loos.

## Presentation

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## Reference Energies for Cyclobutadiene: Automerization and Excited States

"Theory, Modeling and Simulations" Days, Rennes (France), Oct 13 - 14, 2022

**E. Monino**, M. Boggio-Pasqua , A. Scemama , D. Jacquemin and P. F. Loos.

## *Publications*

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**Connections and performances of Green's function methods for charged and neutral excitations,**

*J. Chem. Phys. (submitted).*

**E. Monino** and P. F. Loos.

**Connections between many-body perturbation and coupled-cluster theories,**

*J. Chem. Phys. 157, 231102 (2022).*

R. Quintero-Monsebaiz, **E. Monino**, A. Marie, and P. F. Loos.

**Reference Energies for Cyclobutadiene: Automerization and Excited States**

*J. Phys. Chem. A 126, 4664 (2022).*

**E. Monino**, M. Boggio-Pasqua, A. Scemama, D. Jacquemin, and P. F. Loos.

**Unphysical discontinuities, intruder states and regularization in GW methods**

*J. Chem. Phys. 156, 231101 (2022).*

**E. Monino** and P. F. Loos.

**Spin-Conserved and Spin-Flip Optical Excitations from the Bethe-Salpeter Equation Formalism**

*J. Chem. Theory Comput. 17, 2852 (2021).*

**E. Monino** and P. F. Loos.

## *Technical skills*

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**Programming Languages/Tools  
Languages**

Fortran, Mathematica, L<sup>A</sup>T<sub>E</sub>X, Bash  
French (native), English (TOIEC C1 certification)