



Ernesto García Alfonso

PhD student

- November 14th, 1996
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About me

During my free time, I rather read some mystery and fiction books, and practise some sports such as football, volleyball and biking for fun. I like to spend time with my family and friends. At work, I like to exchange information and opinions about either labour or general issues with my coworkers. I have flexible working hours.

Skills

Spanish (mother tongue)

English (B2)

French (A2)

Education

2021–2024 PhD

During my PhD, I have developed and/or improved some skills such as teamwork, Fortran 90, C++ and Python programming as language, handling GIT-HUB repositories, and Unix system. I have delivered a certain amount of speeches both international and national. I have written papers which they have been very useful when writing in Latex code (scientific writing program).

- Superfluid $^4\text{He}_N$ nanodroplets
- Helium Time Dependent Density Functional Theory (^4He TD-DFT)
- Clusterization of foreign atoms within ^4He nanodroplets.
- Quantum Vortices
- Coalescence of $^4\text{He}_N$ nanodroplets
- Coulomb explosion of Ak_2 on $^4\text{He}_N$ nanodroplets

2015–2020

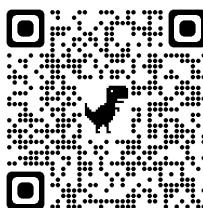
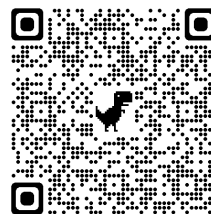
Bachelor in physics. Havana University, Physics Faculty. Thesis entitled: Study of the Vibrational Predissociation of the NeBr_2 Complex by Computational Simulation Using the Trajectory Surface Hopping Method.

- Van der Waals complexes
- Quasiclassic Method
- Trajectory Surface Hopping (TSH)
- C++ language (I built my own package for calculating TSH)
- Wolfram Mathematics

Experience

Participation in national/international Conferences (Poster and Lectures)

https://github.com/ErnestoGarciaALfonso/Experience/blob/main/Professional_experience.pdf



Publications

<https://github.com/ErnestoGarciaALfonso/List-of-Papers/blob/main/Papers.pdf>

Membership

- 2023 Confined Molecular Systems: From a new Generation of Materials to the Starts (COSY) Work Group 4
- 2023 European Cooperation in Science & Technology (e-COST)

Stay Abroad

[07/2019–10/2019] Participation. Project “Theoretical study of helium nanodroplets dynamics: alkali dopants and quantum Vortex; rare gas dopants and cluster formation” in Toulouse, France. Participants: Nadine Halberstad, Manuel Barranco and Martí Pi from University of Barcelona.