## List of Papers (international journals with peer review)

## 2024

Loidel Puentes-Milián, Ernesto Garcia-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira." Vibrational predissociation study of NeIBr(A) using Quasiclassical Trajectories and Trajectory Surface Hopping methods". Chemical Physics Letters. 849, 141427 (2024)

Ernesto García-Alfonso, Manuel Barranco, Nadine Halberstadt and Martí Pi ."Time-resolved solvation of alkali ions in superfluid helium nanodroplets". J. Chem. Phys. 160, 164308 (2024)

### 2023

Loidel Puentes-Milián, Ernesto Garcia-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira." Nel2 Photofragmentation Dynamics Through Quasiclassical and Semiclassical Studies".

ChemPhysChem e202300406,2023

Ernesto García-Alfonso, Francesco Ancilotto, Manuel Barranco, Martí Pi, Nadine Halberstadt ."Quantized vortex nucleation in collisions of superfluid nanoscopic helium droplets at zero temperature". J. Chem. Phys. 159, 074305 (2023)

#### 2022

Ernesto García-Alfonso, Maykel Márquez-Mijares, Jesús Rubayo-Soneira, Nadine Halberstadt, Kenneth C. Janda and Craig C. Martens. "Photogfragmentation dynamics study of ArBr2 (v = 16,..., 25) using two theoretical methods: trajectory surface hopping and quasiclassical trajectories". Eur. Phys. J. D. 76, 79. 2022.

Ernesto García-Alfonso, Manuel Barranco, David A. Bonhommeau, Nadine Halberstadt, Martí Pi and Florent Calvo. "Clustering, collision, and relaxation dynamics in pure and doped helium nanoclusters: Density - vs

particle -based approaches". The Journal of Chemical Physics. 157, 014106. 2022

#### 2020

Ernesto García-Alfonso, Francois Coppens, Manuel Barranco, Martí Pi, Frank Stienkemeier and Nadine Halberstadt. "Alkali atoms attached to vortex-hosting helium nanodroplets". The Journal of Chemical Physics. 152, 194109. 2020.

Ernesto García-Alfonso, Maykel Márquez-Mijares, Jesús Rubayo-Soneira, Nadine Halberstadt, Kenneth C. Janda and Craig C. Martens. "Study of the Vibrational Predissociation of the NeBr2 Complex by Computational Simulation using the Trajectory Surface Hopping Method". Sigma Mathematics. 8, 2029. 2020.

# <u>2019</u>

C. Calvo-Mola, S. López Pérez, E. García Alfonso, and J. Cerutti Torres. "Determination of the Planck Constans through the use of LEDS". Revista Cubana de Física, 36, 125.2019.