

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

### 2024

Marisol Trejo, Andrew Clifford, Ernesto Garcia Alfonso, Nadine Halberstadt, Lan Xue, and Wei Kong. "*Electron diffraction of foam-like clusters between xenon and helium in superfluid helium droplets*". **J. Chem. Phys. 161, 000000 (2024)**

Loidel Puentes-Milián, Ernesto Garcia-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira. "*Vibrational predissociation study of  $\text{NeI}(\text{Br})$  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. " *$\text{NeI}_2$  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. "*Photofragmentation dynamics study of  $\text{ArBr}_2$  ( $v = 16, \dots, 25$ ) 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 NeBr<sub>2</sub> Complex by Computational Simulation using the Trajectory Surface Hopping Method"*. **Sigma Mathematics. 8, 2029. 2020.**

**2019**

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