

List of Papers

2023

Loidel Puentes-Milián, Ernesto García-Alfonso, Maykel MARQUEZ-MIJARES, and Jesús Rubayo-Soneira. "*NeI₂ 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 ArBr₂ ($v = 16, \dots, 25$) 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 NeBr₂ 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.*