

**ABSTRACT ONLY****ROTATIONAL PERIOD DETERMINATION OF  
FORTUITOUS ASTEROIDS**Johana Murcia-Rocha<sup>1</sup>, Camilo Delgado-Correal<sup>2</sup>  
& José Sergio Silva-Cabrera<sup>3</sup>

In this work we present the results of the photometric analysis of 11 asteroids whose rotation period has not been estimated and which we consider to be fortuitous as they were not the main objective of the photometric observations. They were present in the same field of view as the asteroid of study and showed sufficient brightness for photometric analysis. The images analyzed correspond to 23 nights in 2022, and were obtained from the National Astronomical Observatory of San Pedro Mártir, using the 84 cm telescope. Image processing, aperture photometry, and differential photometry were performed to calculate light curves. Subsequently, a search for the value of the corresponding rotation period was carried out using Fourier series analysis, employing a computational program that performs a rotation curve fitting. The complete data is available in: [here](#).

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<sup>1</sup> Orbitamautas Astronomy Group.(jmurciar@upn.edu.co)

<sup>2</sup> Francisco José de Caldas District University of Bogotá & IGAC. (mcdelgadoc@udistrital.edu.co)

<sup>3</sup> CONAHCYT - Instituto de Astronomía - Universidad Nacional Autónoma de México. (jsilva@astro.unam.mx)

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