

Peer Review

Review of: "Measuring the Distances to Asteroids from One Observatory in One Night with Upcoming All-Sky Telescopes"

Elvis Lacruz¹

1. Valencian International University (VIU), Valencia, Spain

This work introduces a methodology called Z22, developed and evaluated by the authors in greater detail. This technique allows for the recovery of distances to Near-Earth Objects (NEOs) in just a single night. To achieve this, synthetic data is used, which enables the quantification of the method's limitations under uncertainty conditions of 1.3 %.

The results are interesting, and the authors deserve to be published, but in my opinion, after some minor revisions to the manuscript. Since the methodology Z22 is referenced and plays a central role, the authors should add a few additional lines to further elaborate on this methodology.

Additionally, certain issues such as:

Why is it stated that the astrometric uncertainties are independent?

Are uncertainties in the declination coordinate also taken into account?

What is the airmass limit that the images can have in order to achieve astrometric uncertainties of 0.1?

Attachments: available at <https://doi.org/10.32388/G5RG76>

Declarations

Potential competing interests: No potential competing interests to declare.