## **BPU11 CONGRESS**



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## Methods for detecting NEO-type celestial bodies, possibly NEA asteroids

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For the detection of celestial bodies near the Earth, called NEO bodies, Near Earth Object, among which are NEA asteroids, Near Earth Asteroids, several types of software and utilities have been created. This paper includes the way in which the image packets were processed, taken from the telescope, highlighting the characteristics of NEO bodies and how they were used in Astronomy, to obtain a body with physical significance, namely an asteroid, possibly NEA type. The images were obtained using the Isaac Newton Telescope, INT, from the Canary Islands, La Palma. Thus, the data for the celestial bodies, from the E227 image pack, were recorded between October 6-9, 2020. These data for the identified bodies were included in the Minor Planet Center database. The software packages used were Astrometrica and Nearby, respectively. The determinations made with the help of students, University of Craiova, Faculty of Sciences, within the existing Research Project, were materialized in the composition of teaching-learning didactic projects, in the disciplines of Pedagogical Practice, respectively in Didactics of Natural Sciences, using the methods interactive teaching - learning, such as research investigation and e-learning teaching method. The utilities accessed after identifying significant celestial bodies were Asteroids Identifications, Find Orb Project Pluto-MPC, from the Minor Planet Center, Astrocheck, Nea Checker, and Neo Checker-MPC.

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