



Contribution ID: 90

Type: **Poster**

Orbital Shapes of Asteroids in Cometary Orbits based on 0.7m Telescope Imaging

Thursday, May 25, 2017 5:45 PM (15 minutes)

The study of orbital element of Asteroids (in Cometary Orbits, ACO) is based on images taken by 0.7 m diameter telescopes to find position of asteroids and calculate their orbital elements. This work focuses on variation of position and orbit shape of ACO, which are obtained by analyzing orbital element and Minimum Orbital Intersection Distance (MOID). Each observation, those parameters are affected by the gravity from Jupiter on ACO. The accuracy of single site data is calibrated by comparing the result from this work with other observations in Minor Planet Center database.

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Session Classification: Poster Presentation II

Track Classification: Astronomy, Astrophysics, and Cosmology