

Surveys of Minor Bodies in Outer Solar System using Subaru Telescope

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Surveys of minor bodies in outer solar system have been conducted using Subaru Telescope and its prime focus camera “Suprime-Cam”. The Suprime-Cam is the wide field camera equipped to the 8-m class telescope for the first time. The field of view of the instrument is 30 arcmin and roughly ten times larger than the typical optical imaging camera attached to telescopes of similar aperture. Because of both wide field and deep imaging capability, Subaru telescope has provided new opportunities to look at the edge of our solar system. I introduce recent works of minor body search using Subaru telescope, detection techniques and results of the survey including luminosity function of trans-Neptunian objects.

Keywords: trans-Neptunian object; Kuiper belt