

Photometric observations of trans-Neptunian object and Centaur at Lulin observatory

KINOSHITA DAISUKE¹ and LIN HUNG-CHIN¹

¹*Institute of Astronomy, National Central University*

The Lulin One-meter Telescope (hereafter, LOT) was installed at the summit of Mount Lulin (120°, 52' 25" E, 23°, 28' 7" N, $H = 2862\text{m}$) in the central region of Taiwan by the Institute of Astronomy of National Central University in September 2002. After three months of test observations, the open-use observations have begun in January 2003. The LOT mainly concentrates on time-domain astronomy, such as observations of gamma-ray burst, super-novae and variable star. The planetary science is also an important activities at Lulin. We have started to carry out photometric observations of trans-Neptunian object and Centaur using 1-m telescope at Lulin observatory in Taiwan. Our primary aim is to obtain the rotational lightcurves of relatively bright minor bodies in outer solar system by time-resolved photometry. We report preliminary results of our observation for 2003 VS2, and also plan to mention upcoming observation of 2002 GB10 and 2004 GV9.

Keywords: trans-Neptunian object; Centaur