

Simultaneous Observations of Asteroids' Lightcurve by Subaru Telescope and the future

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A meteorite fallen in the Tagish Lake of Canada was revealed as one of the rare primordial meteorites, and the reflective spectrum was close to that of D-type asteroids.

We performed spectral observations of several D-type asteroids by using the IRCS(Infrared Camera and Spectrograph) attached to the Subaru telescope. While we should spend time for changing the observational bands in this IRCS instruments, the target asteroid will change its brightness by the rotation. In order to correct this effect, we organized a simultaneous observation campaign among the public observatories and amateurs in Japan, and succeeded to derive the lightcurve of the target asteroid during the Subaru telescope observation.

Because we are planning to apply a similar method, the simultaneous observations are necessary. There are many public observatories in Japan which are able to contribute such collaborations by using their telescopes of 60cm-1m class. Therefore we hope them to be involved in our research activity.