

First Light of Tohoku 60-cm Telescope at Haleakala Observatory in Hawaii

Masato Kagitani¹

(1) Planetary Plasma and Atmospheric Research Center, Tohoku University

The Tohoku University has installed a 60-cm telescope (T60) at the Haleakala observatory in Hawaii on September 2014 with three unique instrumentations: a Mid-Infrared LASer Heterodyne Instrument (MILAHl) (8-10 μm , $\lambda/\delta\lambda \sim 10^{6-7}$), an Visible Imager and a SPectrograph with Coronagraph (0.5-0.9 μm , $\lambda/\delta\lambda \sim 6 \times 10^4$) and a Double Image high-precision POLarimeter (DIPOL-2) (0.4-0.8 μm , DoLP $\sim 10^{-6}$). We are now starting (1) Jupiter observation using the VISPEC for support observation of HISAKI/EXCEED, (2) Martian observation using MILAHl for the monitor of lower atmosphere just below MAVEN observations, and (3) high-precision polarimetry of scattered light by exoplaent's atmosphere using Dipol-2.