

SUBARU Search for Proto-Planets

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We have carried out an extensive coronagraphic survey for proto-planets and proto-planetary disks as the Observatory Key Program of the Subaru Telescope. We have detected more than 50 point sources around T Tauri stars in the Taurus molecular cloud. Their magnitudes are between 15 and 20 mag at the H band. They may have extremely small masses if they associated with the primary star.

We have also carried out follow-up near-infrared spectroscopy of the bright objects with large separation to the primary. We will present the results of the spectroscopy as well as the coronagraphy, and discuss nature of the objects.