

**P14a                    Unveiling Deeply Embedded Sources by Near Infrared Polarimetric Imaging**

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The presentation shows near infrared polarimetric images of six molecular outflow sources, IRAS20050+2720, IRAS20126+4104, IRAS20188+3928, S233, AFGL5180 and AFGL6366S, which were obtained with OASIS at the 1.88m telescope of Okayama Astrophysical Observatory. All the regions are found to exhibit reflection nebulae associated with massive/clustered star formation. By inspecting polarimetric patterns in the nebulae, we have identified deeply embedded sources(DESs) that illuminate circumstellar nebulosity but are not detectable in the wavelengths less than 2 micron. While the DESs in IRAS20050 and IRAS20126 could be confirmed by previous observations in longer wavelengths, the characteristics of the other newly discovered DESs are still lack of knowledge. The near infrared observations reveal the nebular structures and characterize the point sources in the regions, much improving our understanding for the circumstellar environment of the DESs. In the report, we will discuss the possible relationship of these near infrared DESs with UCHII regions and hot molecular cores, and the implications of DESs in clustered star formation.