[구IGR-08] IGRINS Test Observation Results from Seoul National University

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We have carried out IGRINS test observations during its May commissioning run. Our targets were composed of three Luminous Blue Variables (LBVs), one supernova remnant (SNR), and an unidentified stellar source emitting [Fe II] 1.644 um line. In the preliminary results, three LBVs MWC 314, P Cygni, and AFGL 2298 show different characteristics: the spectrum of MWC 314 which is known to be in a binary system clearly shows double-peak structures in hydrogen and iron lines, the P Cygni spectrum reveals the Brackett series of hydrogen emission lines with prominent P-Cygni profiles, and AFGL 2298 likely at its visual minimum phase shows rather different spectrum with relatively weak hydrogen lines. The SNR (G11.2-0.3) was to test the sensitivity of IGRINS for diffuse emission. We successfully detected a dozen H2 emission lines with a velocity width of ~13 km/s, which might indicate a C-shock origin. The unidentified stellar source was one of stellar/compact sources of unknown nature detected in the survey of the Galactic plane in [Fe II] 1.644 um emission line (http://gems0.kasi.re.kr/uwife/). Its spectrum is under investigation. We will present the spectra of test observations and will discuss their scientific significance.

[구IGR-09] IGRINS Operation Plan and the status of the IGRINS Reduction Pipeline

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After successful commissioning observations, IGRINS will soon begin its normal scientific operations on the 2.7m Harlan J. Smith telescope at the McDonald Observatory. We will present a working version of the IGRINS operation plan. A fraction of IGRINS guaranteed time will be devoted to a selection of strategic programs with legacy values, whereas the rest of the time will be used for normal programs. We will also describe the current status of the IGRINS data reduction pipeline package and its future development plan.