

³ Gunma Science Museum for Children, Gunma Lifelong Learning Center



<http://www.astron.pref.gunma.jp/>

Performance of Instruments in GAO

Limiting Magnitude vs. Wavelength (μm)

Legend:

- Imaging: GAOES (green diamond), GLWS (blue diamond), GIRC3 (red diamond)
- Spectroscopy: GAOES (green line), GLWS (blue line), GIRC3 (red line)
- Narrow band filter (red line)

Key Data Points and Features:

- (S/N=100, 120min) at $\sim 0.6 \mu\text{m}$
- Echelle (Stt = $0.6 \sim 4''$) at $\sim 0.6 \mu\text{m}$
- Grism (Stt = $1.8''$) at $\sim 0.7 \mu\text{m}$
- (5sigma, 15min) at $\sim 0.4 - 0.9 \mu\text{m}$
- [Fe II] CIV Keck2, H2 Brg at $\sim 2.1 \mu\text{m}$
- Ks at $\sim 2.2 \mu\text{m}$ (err=0.1mag, 9min)

▲ Performance of 150cm Instruments

There is low resolution spectrograph GLOWS at a bent-Cassegrain focus. It is often used for the identification of newly discovered targets such as SNe.