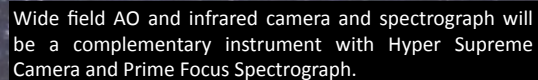
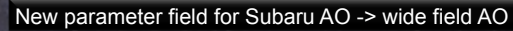


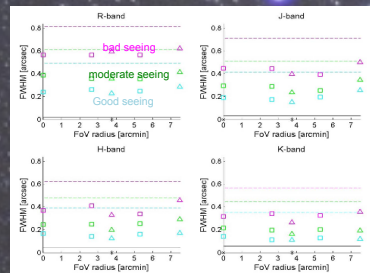
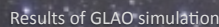
Working group of next generation IR instrument and adaptive optics for Subaru Telescope
Yutaka Hayano¹, Hideki Takami¹, Shin Oya¹, Masayuki Akiyama², Ikuru Iwata¹, Naruhisa Takato¹, Yosuke Minowa¹,
Hiroshi Terada¹, Tetsuo Nishimura¹, Yoshito Ono², Tadayuki Kodama¹, Tomonori Usuda¹, Naoyuki Tamura¹, Daigo Tomono¹.

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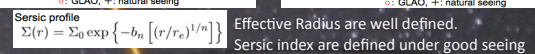
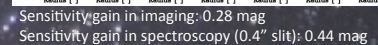
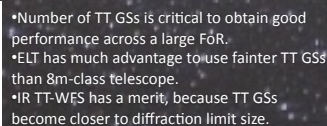
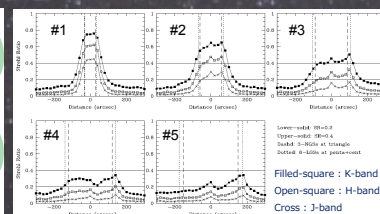
Current and next generation instruments at Subaru Telescope



Science case study of GALO at Subaru Telescope



Results of MOAO simulation



Spectrograph specification
Dispersion: 7.5 Å (R=2500 at 2.2 μm)
Spatial Sampling: 0.12"
Coverage: 1.3 - 2.5 μm
Dark: 0.1 e-/sec
Readout noise: 10 e-/pix

Throughput:
5 optical components for spectrograph, each 90%
Primary and secondary mirrors, each 90%
Disperser: Grism at HK, R=500
H2RG QE from Teledyne

