



SOAR AEON 2025A Goodman High Throughput Spectrograph configurations



BLUE Camera Setup: Gratings: 400; Filters: SDSS-u, g, r, i

FOCUS: SP Blue 400M1 NO FILTER, IM Blue u-SDSS , IM Blue g-SDSS, IM Blue r-SDSS, IM Blue i-SDSS

BIAS: SP BLUE 200ATTN0 2x2, IM BLUE 200ATTN0 2x2 (N=21 for each mode)

FLATS will be obtained for each of the configurations shown in the tables below (N=15 for each config)

BLUE CAMERA: SPECTROSCOPY CONFIGURATIONS							
Readout: 200ATTN0 (Readout noise=4.74e-, Gain=1.4e-/ADU, readout time=12s with 2x2 binning)							
Grating	Mode	Filter	Filter	Slit (“)	Binning	Wavelength range (A)	OSM Designation
400	400M1	---	---	1.0	2x2	3000-7050	GHTS_B_400m1_2x2

BLUE CAMERA: IMAGING CONFIGURATIONS		
Readout: 200ATTN0 (Readout noise=4.74e-, Gain=1.4e-/ADU, readout time=15s with 2x2 binning)		
Filters	Binning	Designation
SDSS-u	2x2	GHTS_B_Img-u_2x2
SDSS-g	2x2	GHTS_B_Img-g_2x2
SDSS-r	2x2	GHTS_B_Img-r_2x2
SDSS-i	2x2	GHTS_B_Img-i_2x2