



# SOAR AEON 2024B Goodman High Throughput Spectrograph configurations



Updated 30 Dec 2024 – César Briceño

## **BLUE Camera Setup: Gratings: 400, 600BLUE; Filters: SDSS-u, g, r, CN-3870**

**FOCUS:** SP Blue 400M1 NO FILTER, SP Blue 600 UV NO FILTER, IM Blue u-SDSS, IM Blue g-SDSS, IM Blue r-SDSS, IM Blue CN

**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)

<b>BLUE CAMERA: SPECTROSCOPY CONFIGURATIONS</b>							
Readout: 200ATTN0 (Readout noise=4.74e-, Gain=1.4e-/ADU, readout time=12s with 2x2 binning)							
Grating	Mode	Filter	Filter	Slit (“)	Binning	Wavelength range (Å)	OSM Designation
400	400M1	---	---	1.0	2x2	3000-7050	GHTS_B_400m1_2x2
600	600UV	---	---	1.5	2x2	3010-5690	GHTS_B_600UV_2x2_slit1p5

<b>BLUE CAMERA: IMAGING CONFIGURATIONS</b>		
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
CN-3870	2x2	GHTS_B_Img-CN_2x2

**Note for SOAR Telescope Operators and staff: the CN filter is labeled at SOAR as CN-3870**