Spectroscopic Record Sheet

Details on acquisitions

Object	Su 8
Coordinates (J2000)	04:47:35.78 -67:30:49.68
Type	New candidate

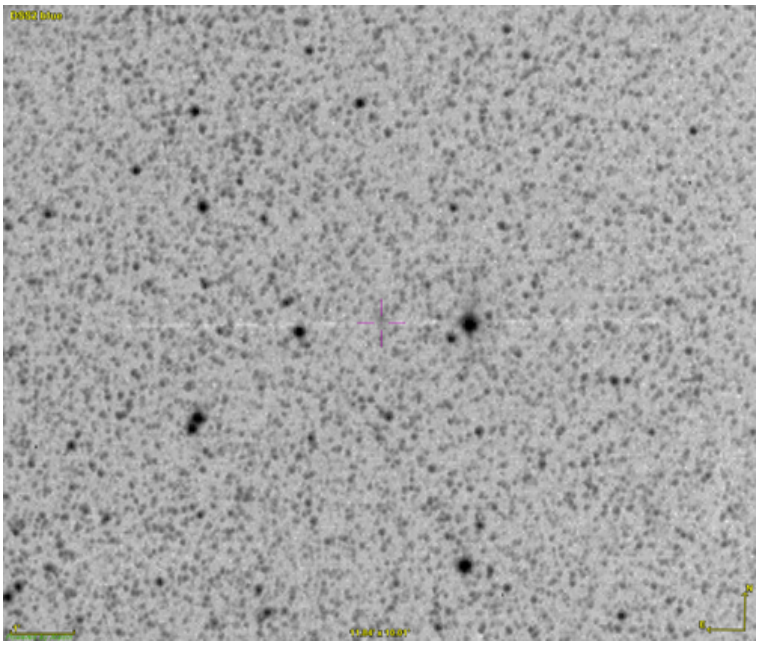
Observation date	11.043/04/2024
Weather conditions	
Observer	2SPOT
Location	Deep Sky Chile (CL)

Mount	10 Micron GM3000 HPS
Telescope	Newton 300mm F/4
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1nm at 656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at 656 nm
Cam temperature	-10°C
Binning	2x2
Guiding camera	ASI 178MM
Data acquisition Soft	Prism v11.2.3.21
Data processing soft	ISIS V6.1.1

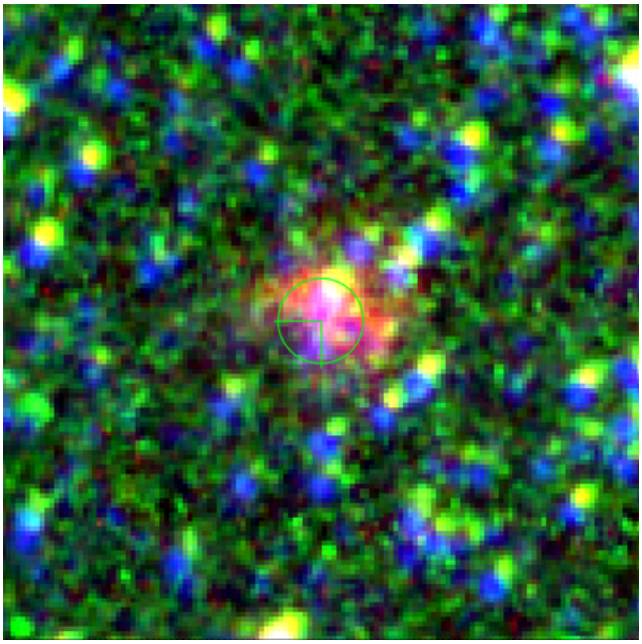
Exposure on object	6 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD42525_A0V
Exposure on ref star	14 x 4 s
Ref star Sp. date	11.094/04/2024

Slit position and images

Slit position

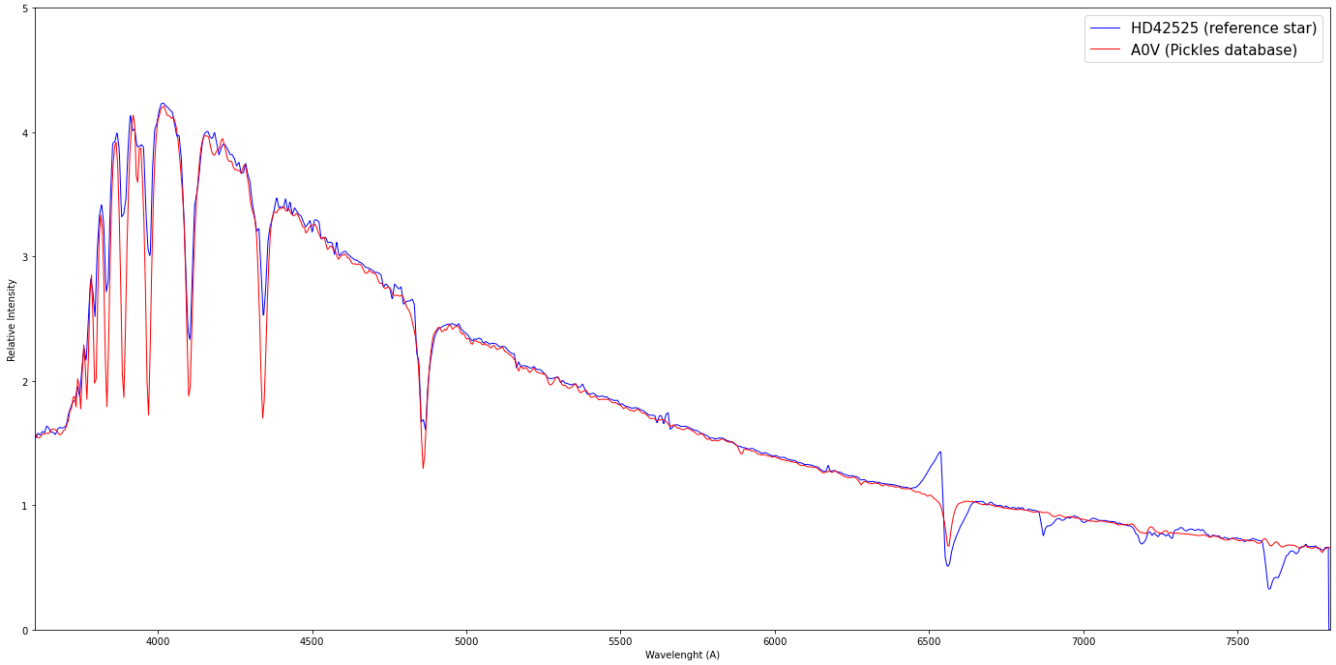


Object picture(s)

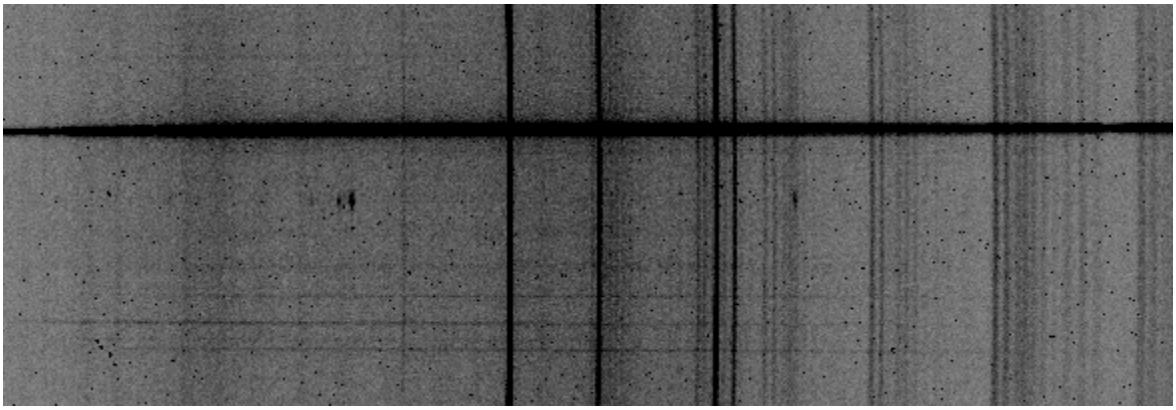


Instrumental Response and 2D Spectra

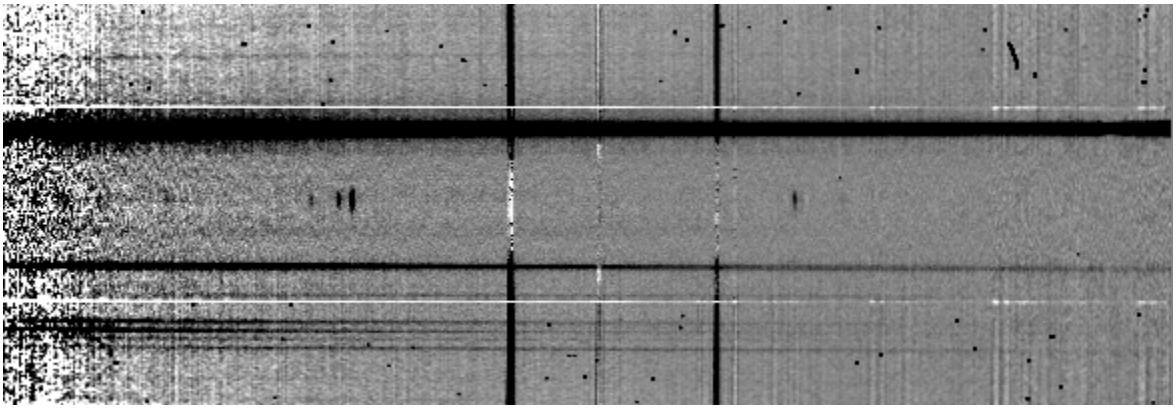
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



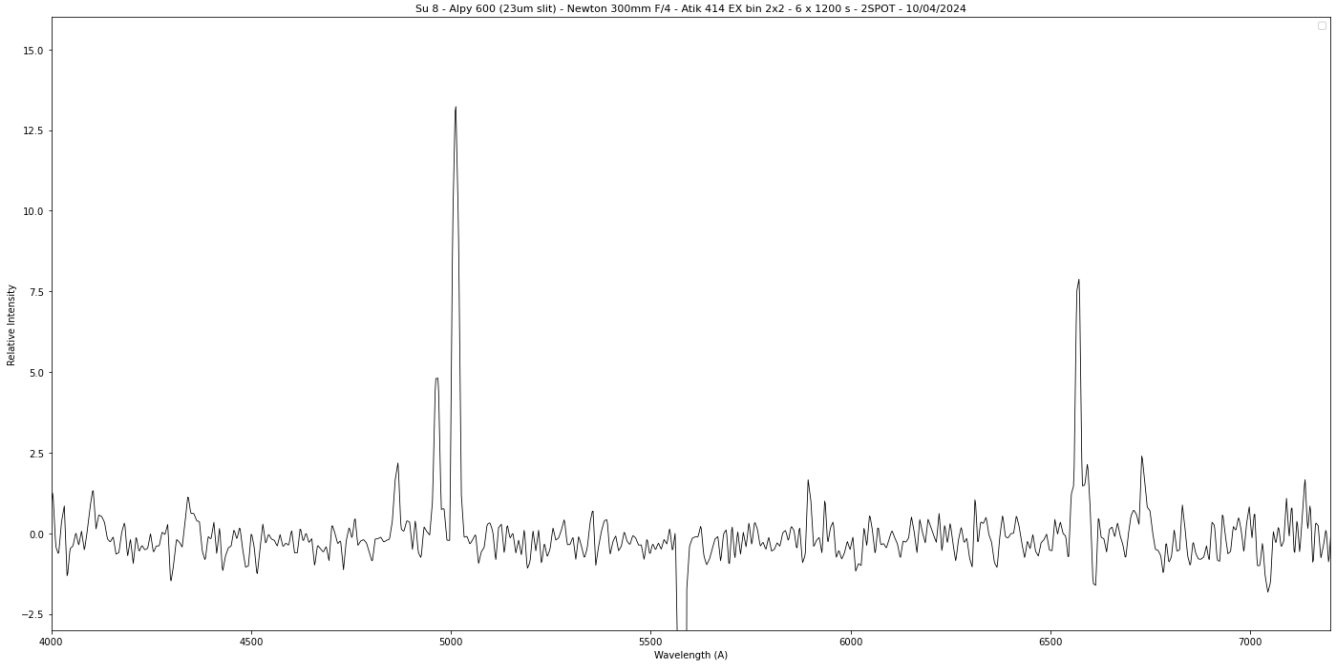
2D Raw spectrum



2D Processed spectrum



Results



Comments

Hgamma, Hbeta,[OIII], Halpha, [NII](6583A) and [SII] lines detected.
The spectrum of Su 8 shows the nebular lines of a true PN.