



Spectroscopic Record Sheet



Details on acquisitions

Object	StDr 47
Coordinates (J2000)	09:27:31.46 -23:22:34.40
Type	NP Probable

Observation date	5.161/04/2024
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	9 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected

Reference star calib.	HD93397_A3V
Exposure on ref star	15 x 4 s
Ref star Sp. date	5.270/04/2024

Slit position



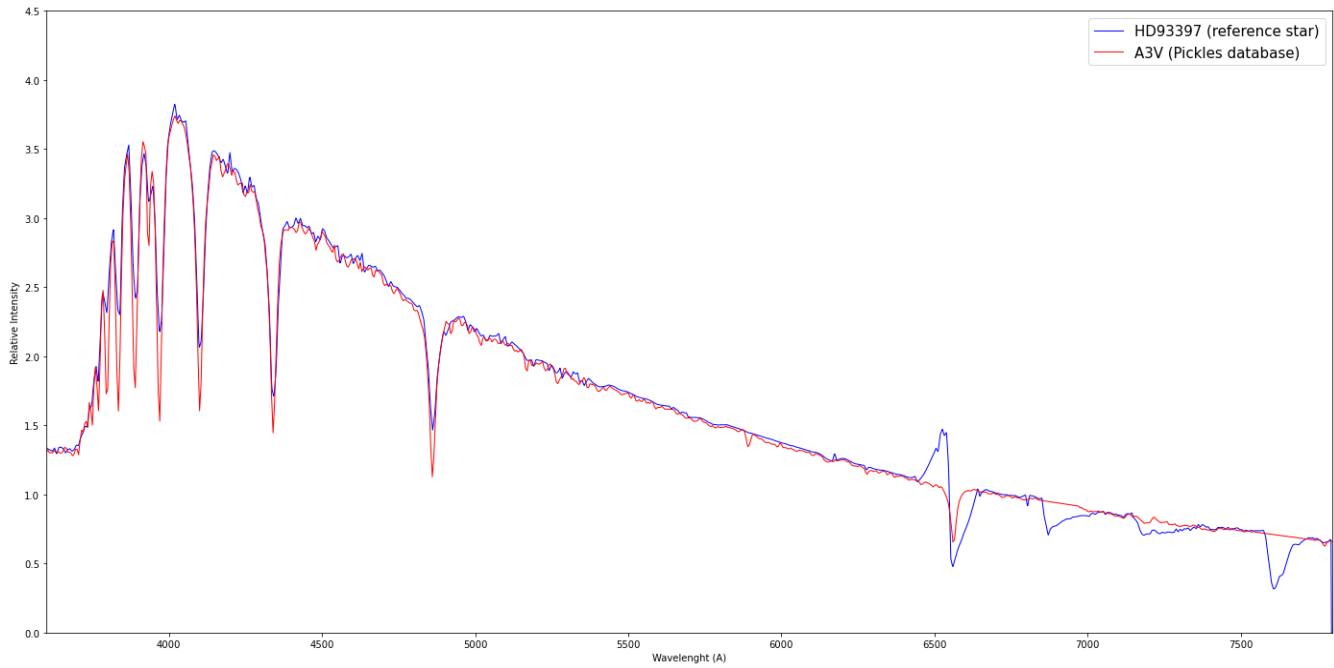
Object picture(s)



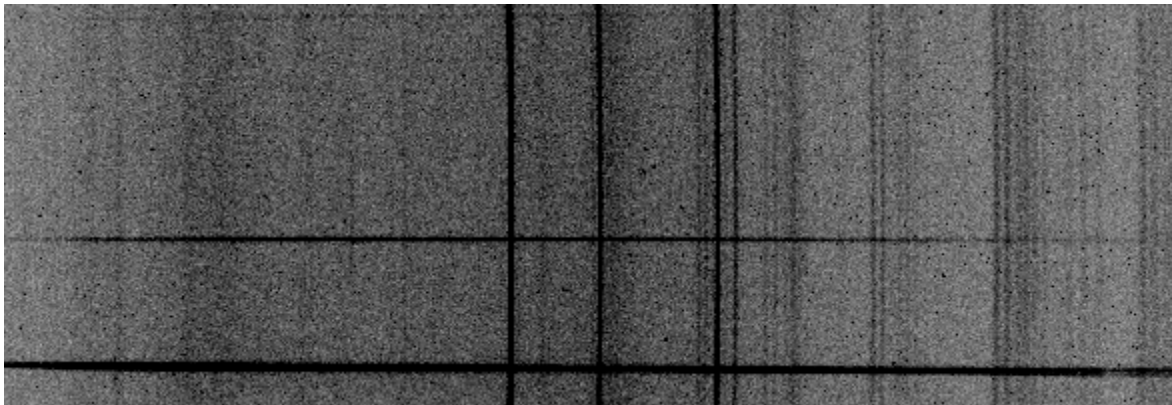


Instrumental Response and 2D Spectra

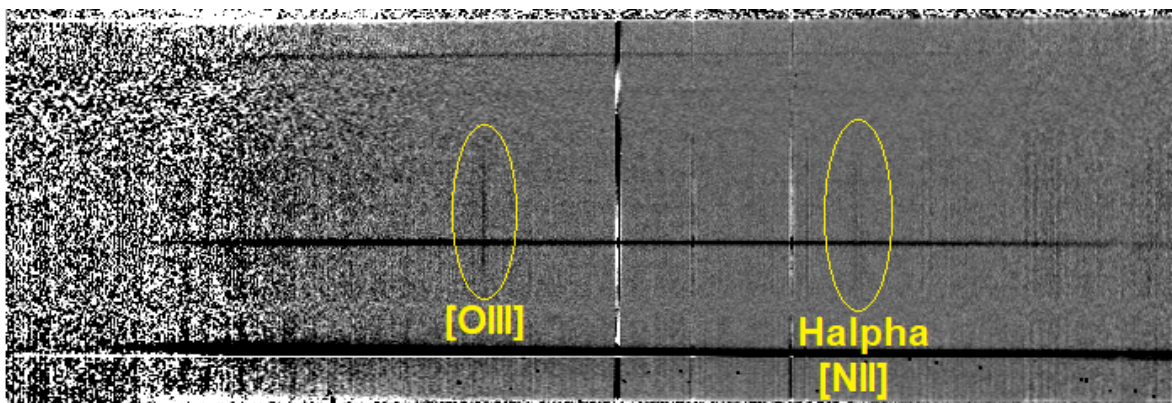
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

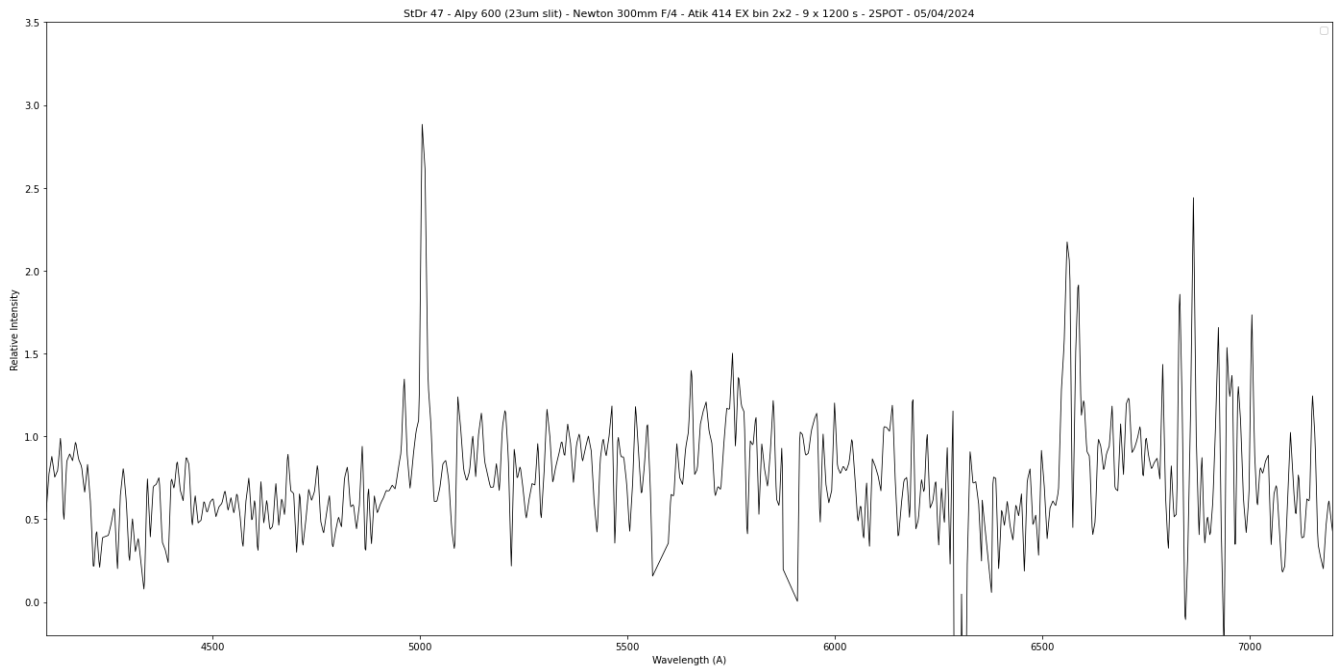


2D Raw spectrum



2D Processed spectrum





Comments

[OIII], Halpha and [NII](6583A) lines detected.
 StDr 47 is already a Likely PN.
 Its spectrum shows nebular lines of a true PN