Spectroscopic Record Sheet

Details on acquisitions

Object	Sl 4
Coordinates (J2000)	12:30:31.73 -64:57:28.73
Type	Likely PN

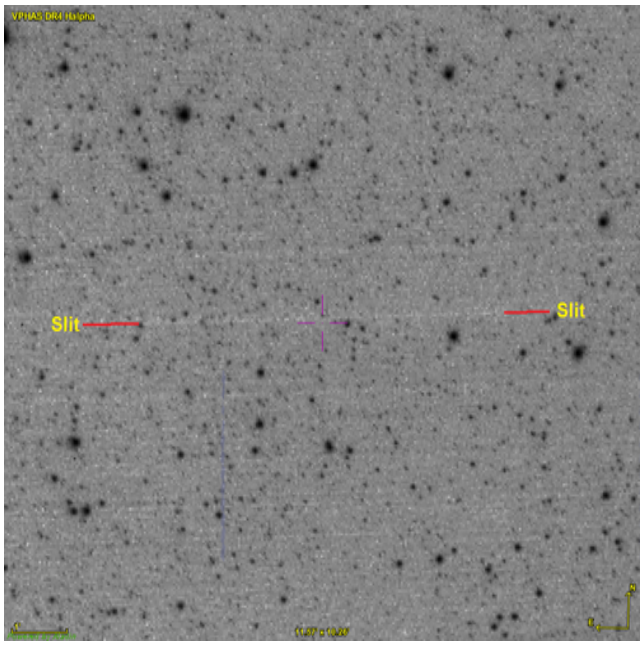
Observation date	4.255/01/2025
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

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

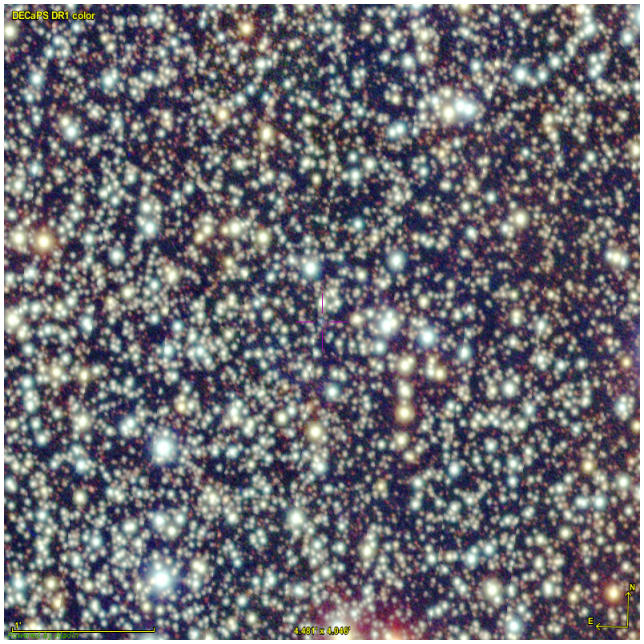
Exposure on object	7 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD114911_B8V
Exposure on ref star	14 x 4 s
Ref star Sp. date	4.330/01/2025

Slit position and images

Slit position

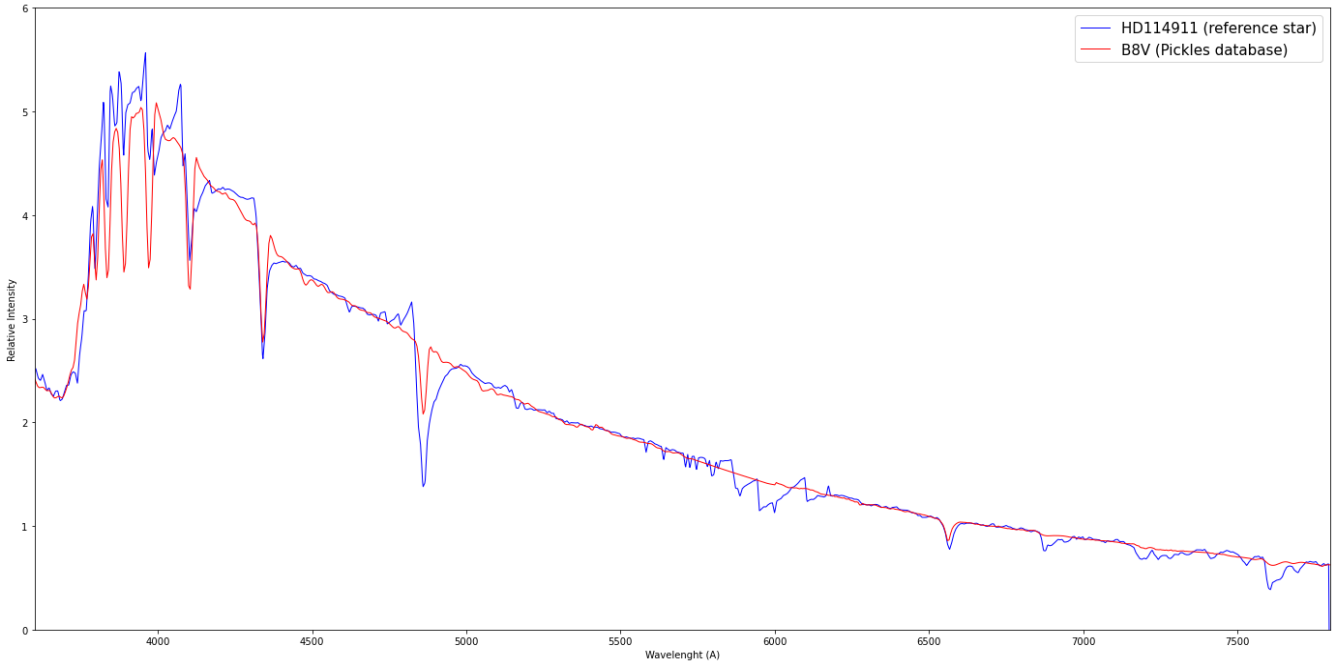


Object picture(s)

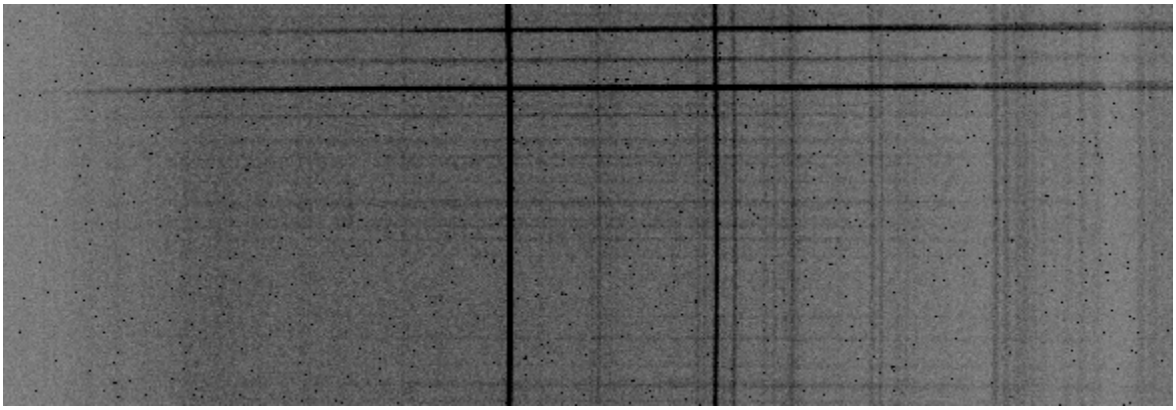


Instrumental Response and 2D Spectra

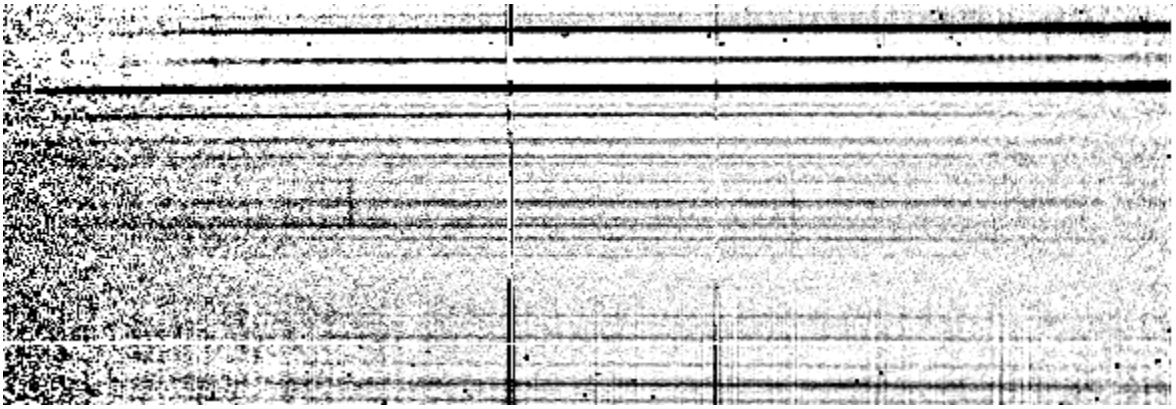
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



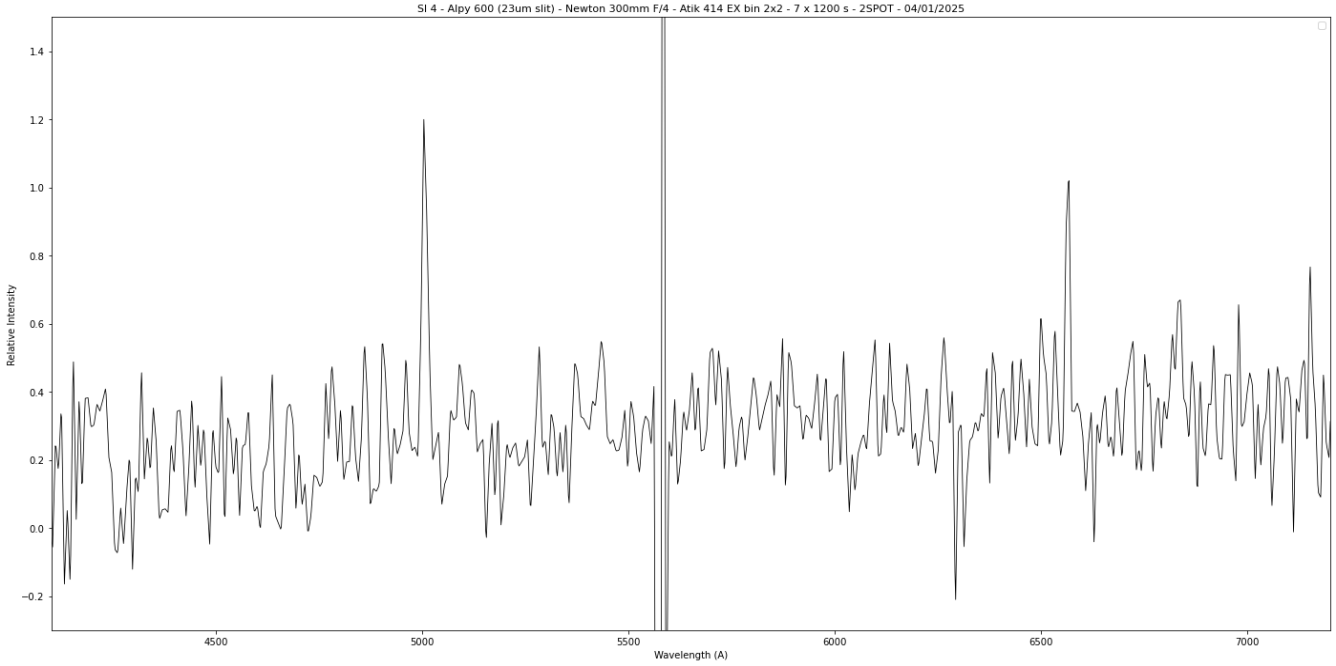
2D Raw spectrum



2D Processed spectrum



Results



Comments

[OIII](5007A) and Halpha lines detected.
Thanks to its morphology, SI 4 is already classified as a Likey PN in the HASH database.
Its spectrum shows that it is certainly a true PN.