Spectroscopic Record Sheet

Details on acquisitions

Object	Wo 2
Coordinates (J2000)	17:21:16.67 -16:08:15.12
Type	New candidate

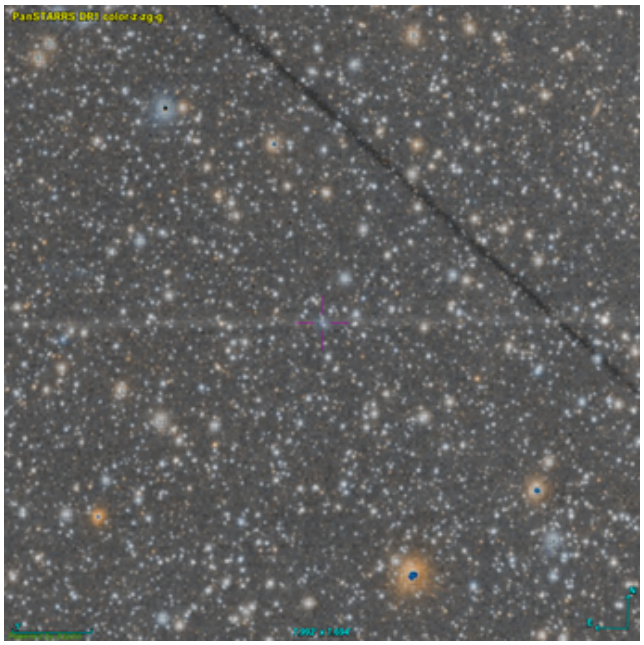
Observation date	17.021/09/2026
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

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
Data processing soft	ISIS V6.1.1

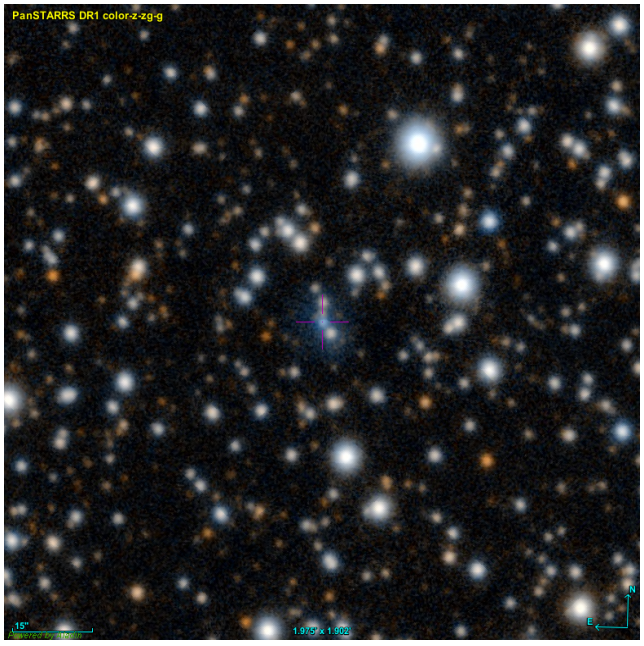
Exposure on object	4 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD145842_B8V
Exposure on ref star	7 x 15.44905 s
Ref star Sp. date	15.051/09/2026

Slit position and images

Slit position

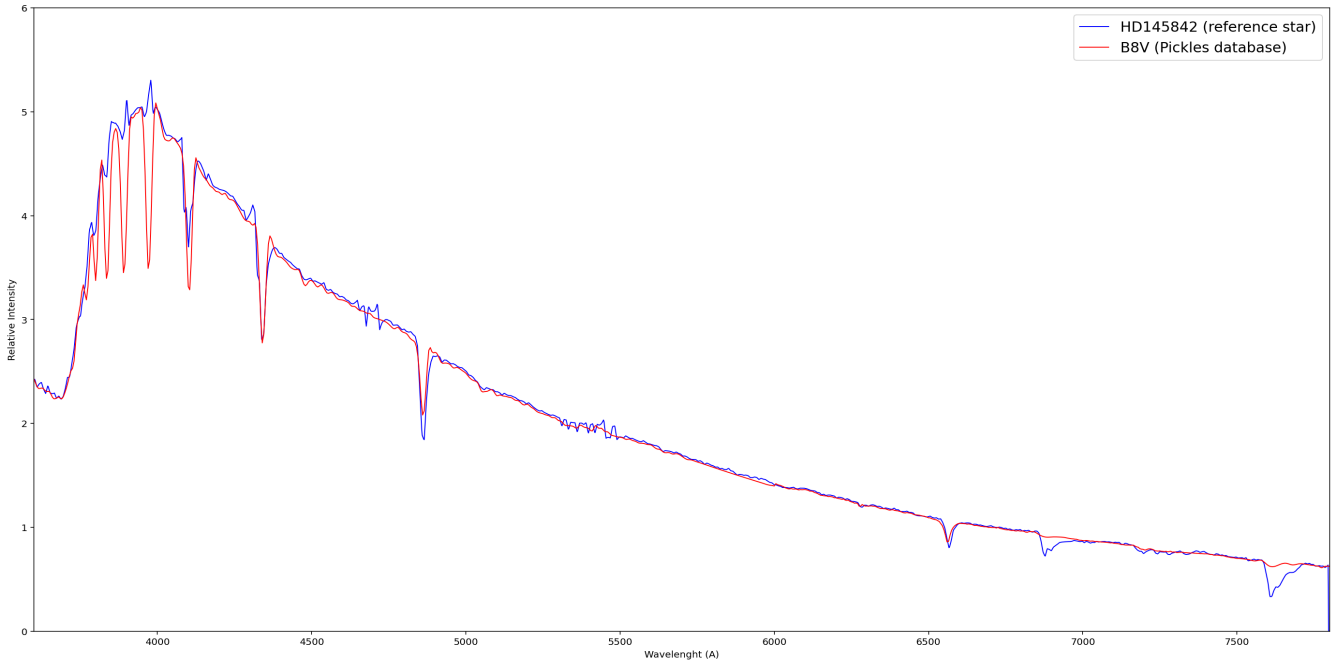


Object picture(s)

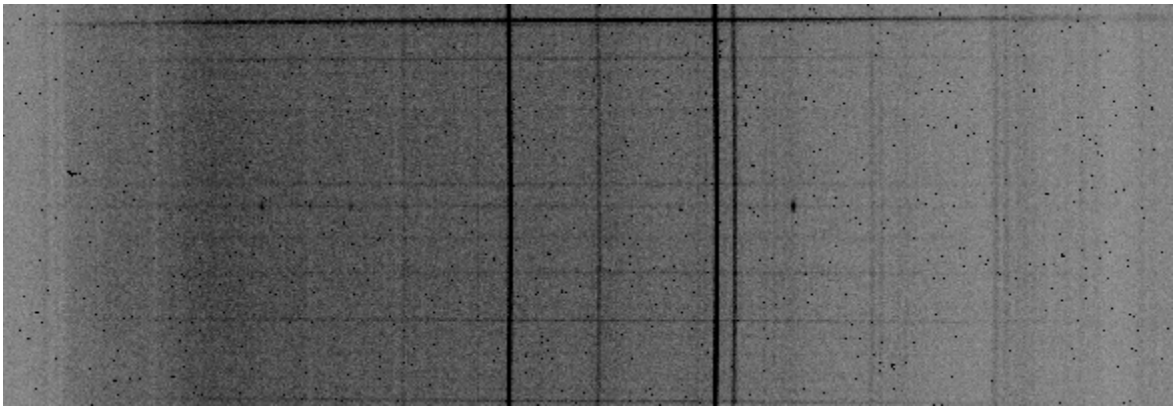


Instrumental Response and 2D Spectra

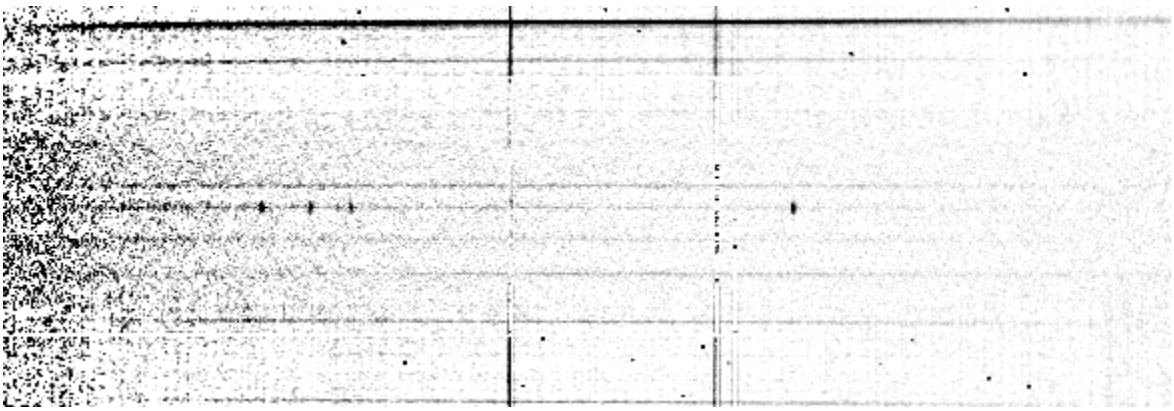
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



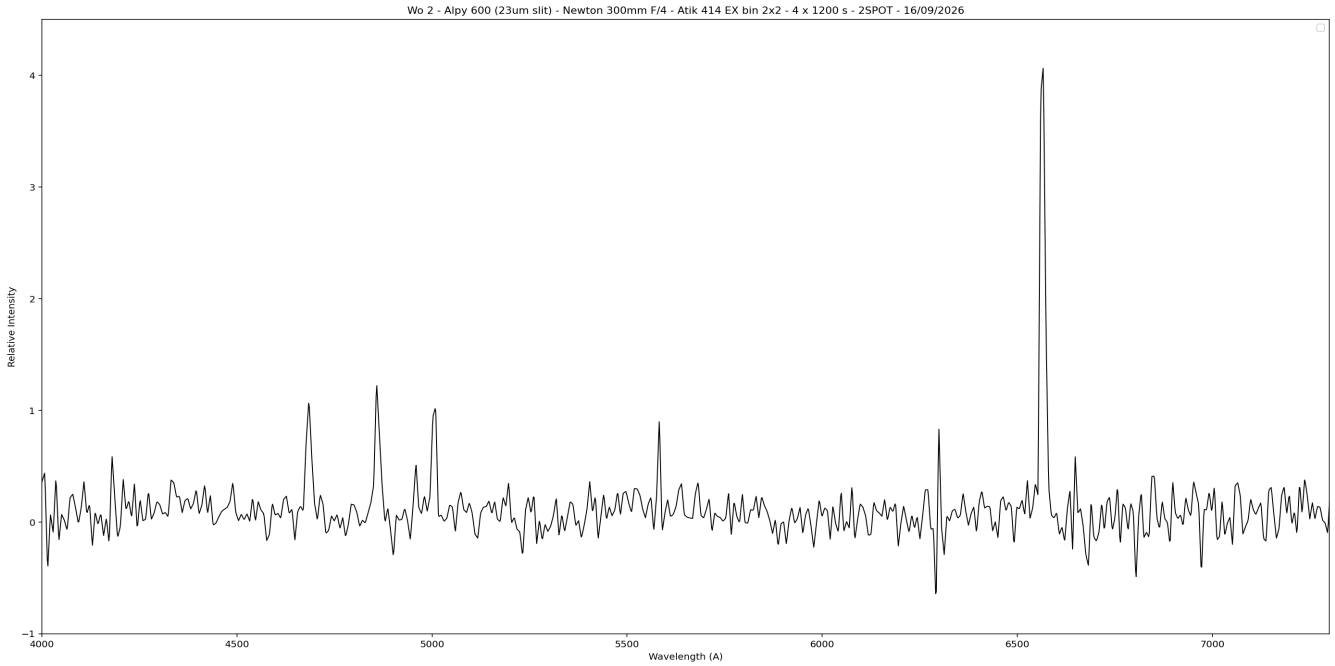
2D Raw spectrum



2D Processed spectrum



Results



Comments

Strong He II (4686 Å), H-beta, and H-alpha lines.
[OIII] lines are present, but no [N II] lines appear in the spectrum.
Wo 2 is certainly a high-excitation planetary nebula.