



Spectroscopic Record Sheet



Details on acquisitions

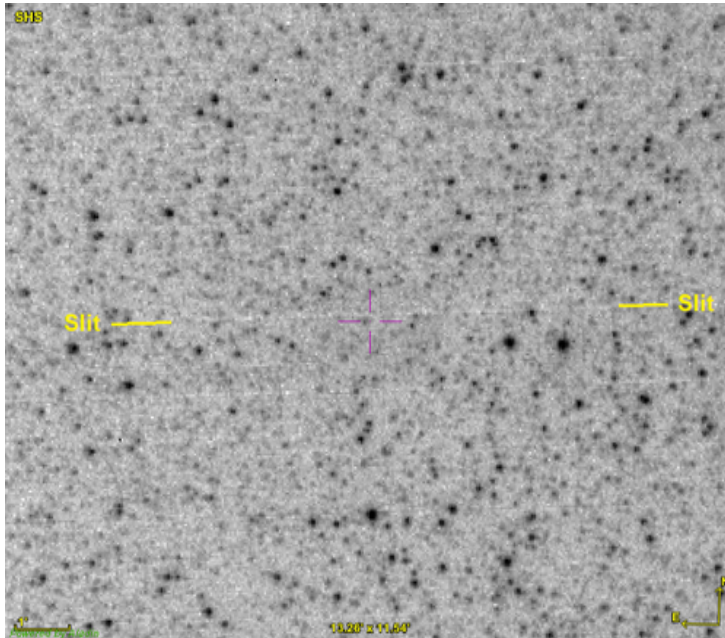
Object	StDr 69
Coordinates (J2000)	13:40:34.42 -65:47:46.00
Type	New candidate

Observation date	15.160/03/2024
Weather conditions	
Observer	2SPOT
Location	Deep Sky Chile (CL)

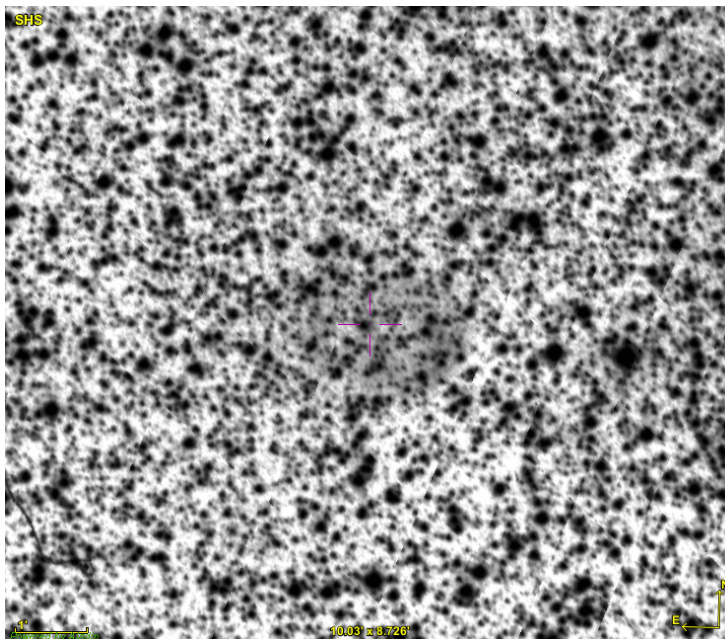
Mount	10 Micron GM3000 HPS
Telescope	Newton 300mm F/4
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1nm at 656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at 656 nm
Cam temperature	-10°C
Binning	2x2
Guiding camera	ASI 178MM
Data acquisition Soft	Prism v11.2.3.21
Data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

Exposure on object	11 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD142139_A3V
Exposure on ref star	14 x 3 s
Ref star Sp. date	15.255/03/2024

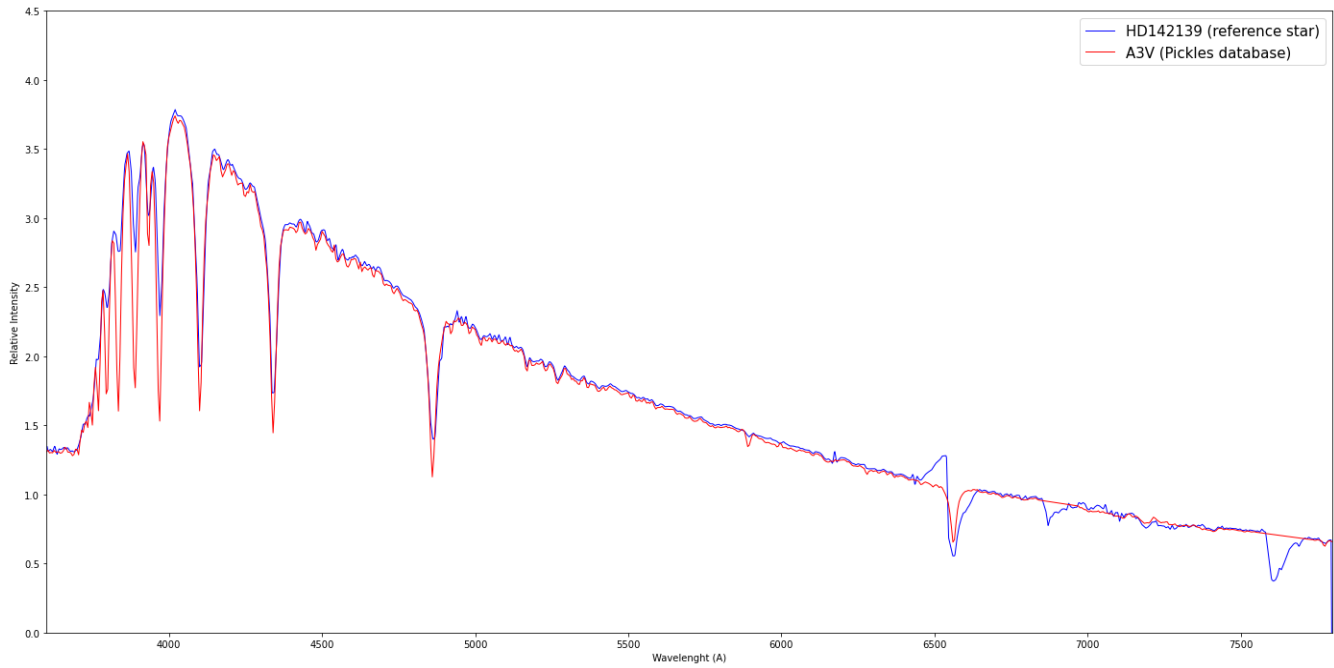
Slit position



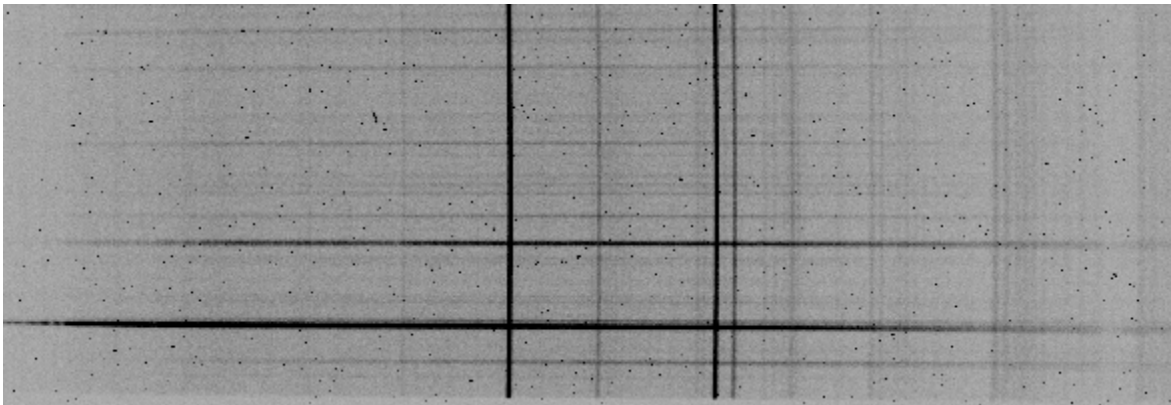
Object picture(s)



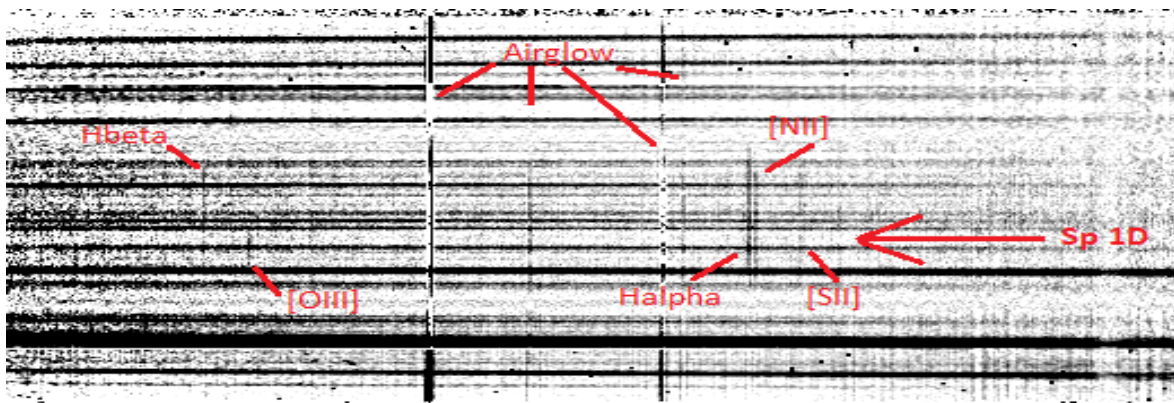
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

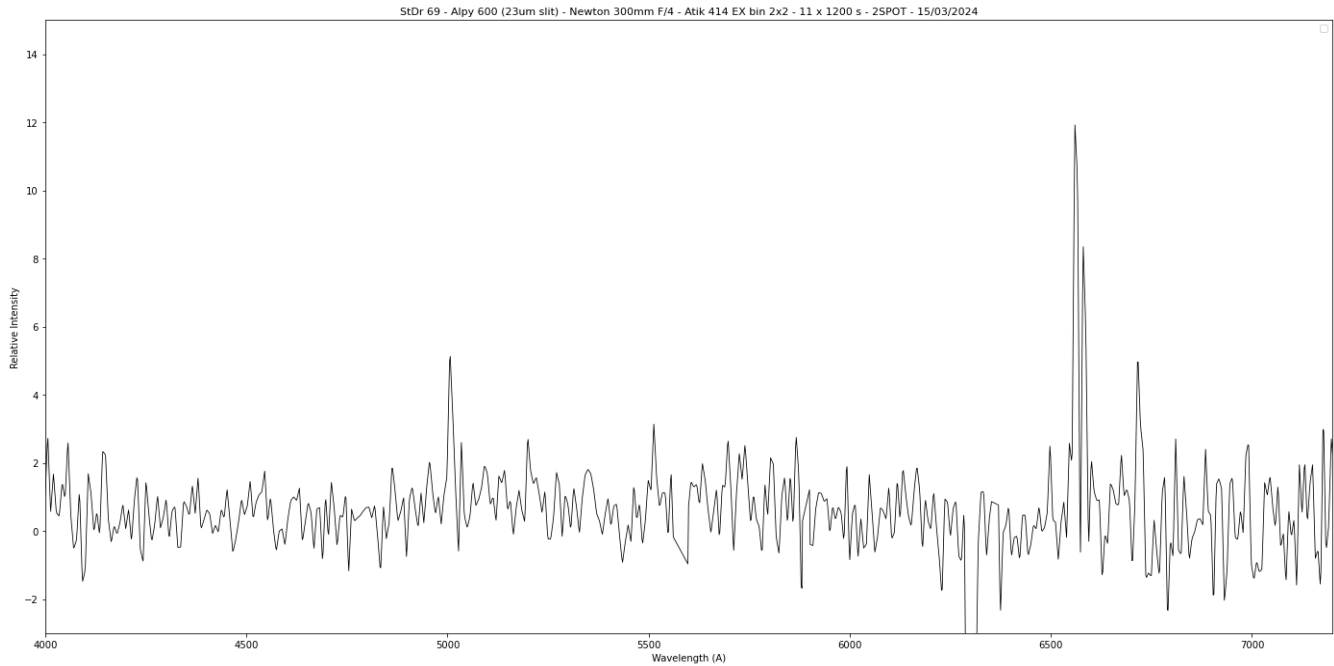


2D Raw spectrum



2D Processed spectrum





Comments

Hbeta, [OIII], Halpha, [NII] and [SII](6716A) lines detected.

The [OIII] signal does not appear to be distributed over the entire nebula disk, unlike the Hbeta, Halpha, [NII] and [SII] signals.

The 1D spectrum has been calculated only on the part of the disk that has [OIII] signal.

StDr 69 shows some nebular lines of a true PN