Spectroscopic Record Sheet

Details on acquisitions

Object	Cop 7
Coordinates (J2000)	20:25:28.92 +31:43:07.90
Type	New candidate

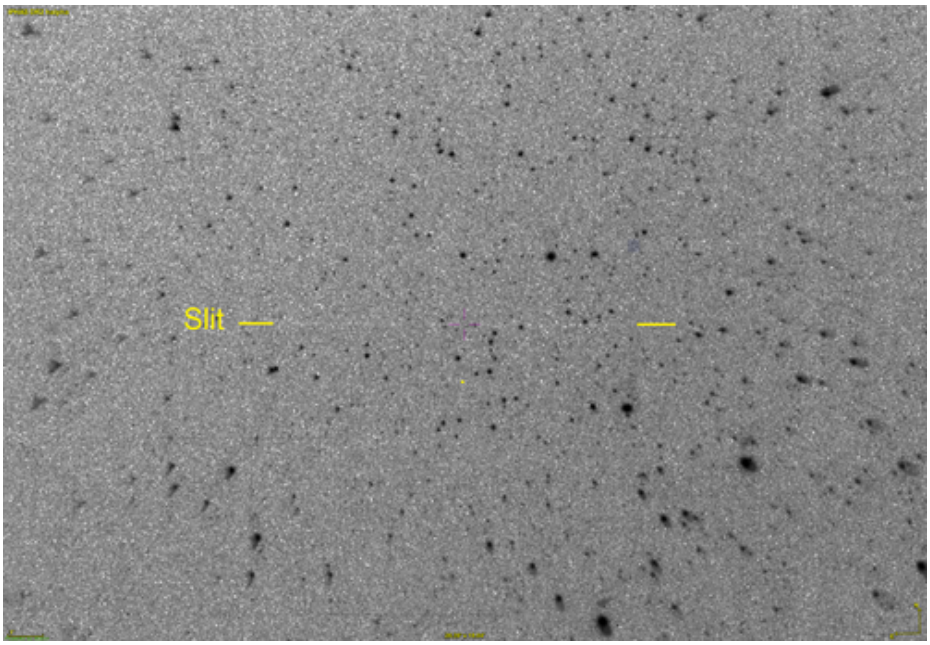
Observation date	9.952/08/2024
Weather conditions	/
Observer	P. Le Dû
Location	Kermerrien Observatory (Porspoder, FR)

Mount	Losmandy G11
Telescope	Newton 200mm F/5
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	Atik 314L+
Data acquisition Soft	Prism v11.2.3.21
Data processing soft	ISIS V6.1.1

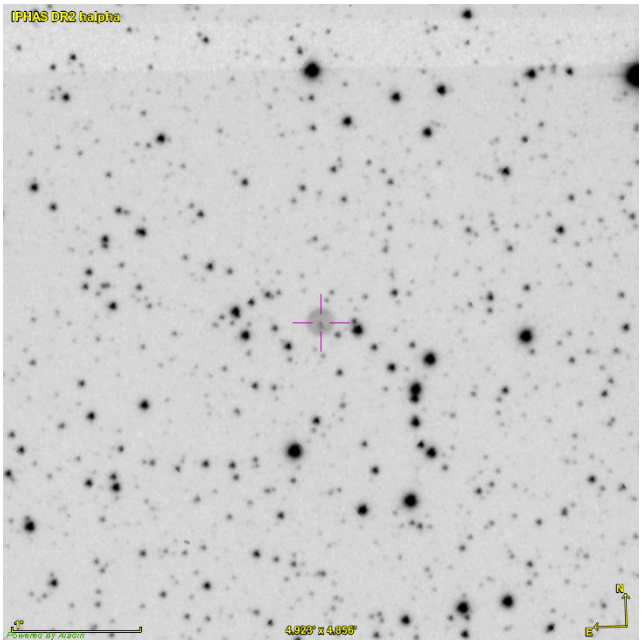
Exposure on object	9 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD206774_A0V
Exposure on ref star	14 x 6 s
Ref star Sp. date	10.065/08/2024

Slit position and images

Slit position

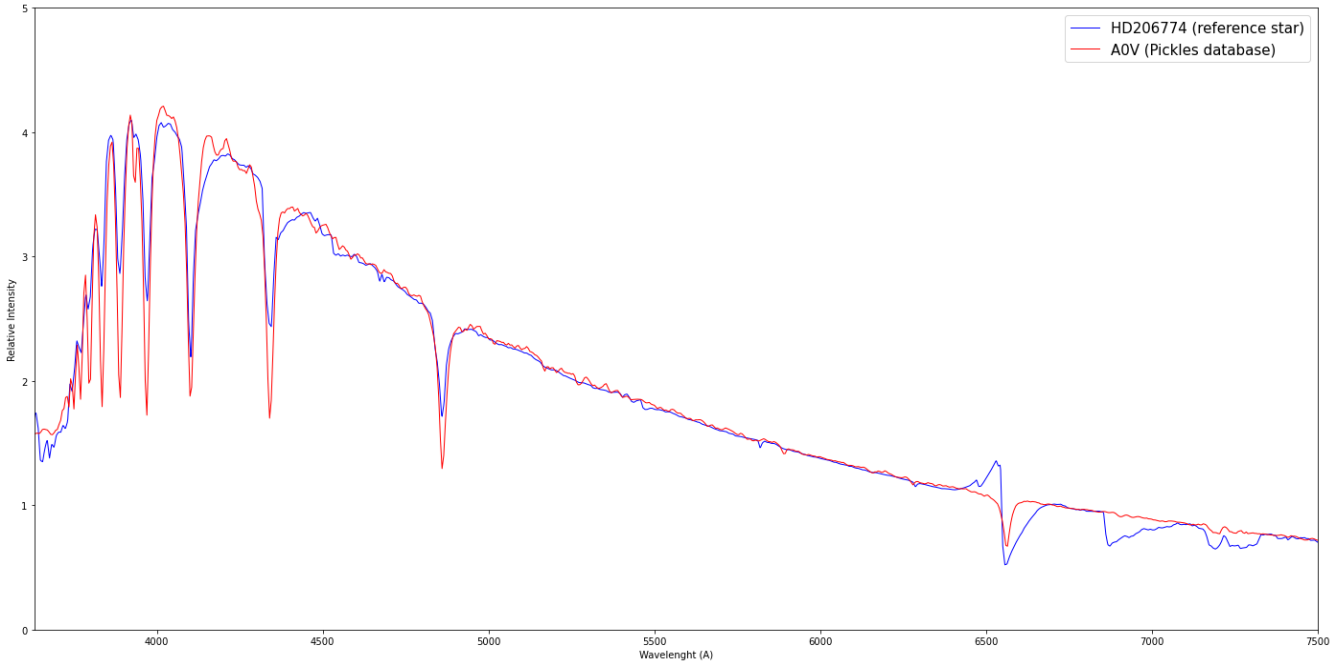


Object picture(s)

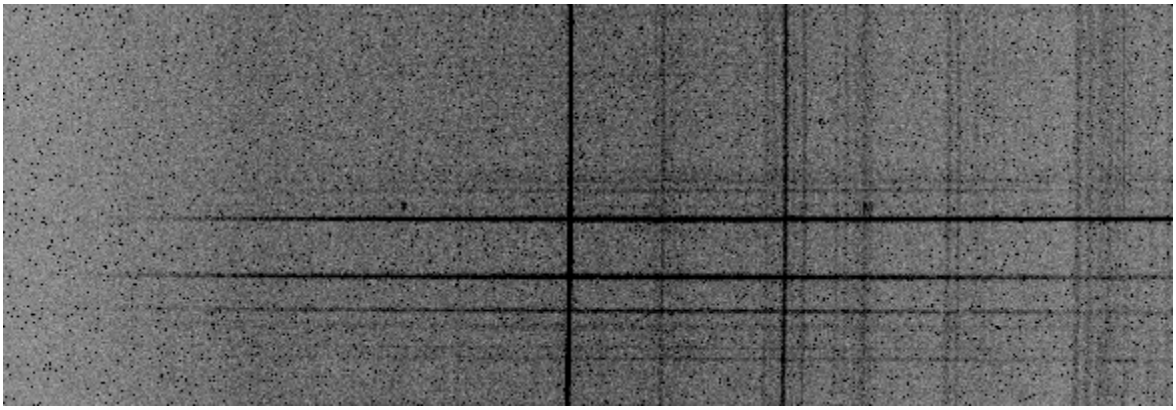


Instrumental Response and 2D Spectra

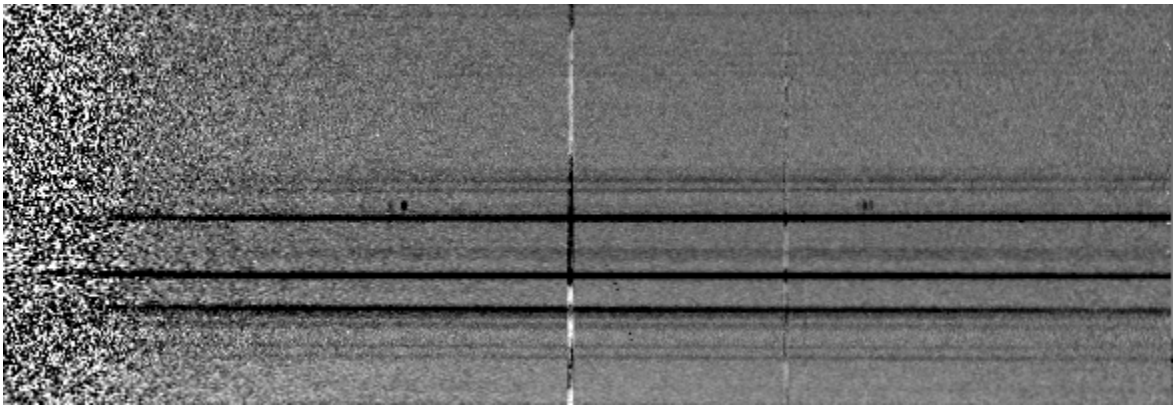
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



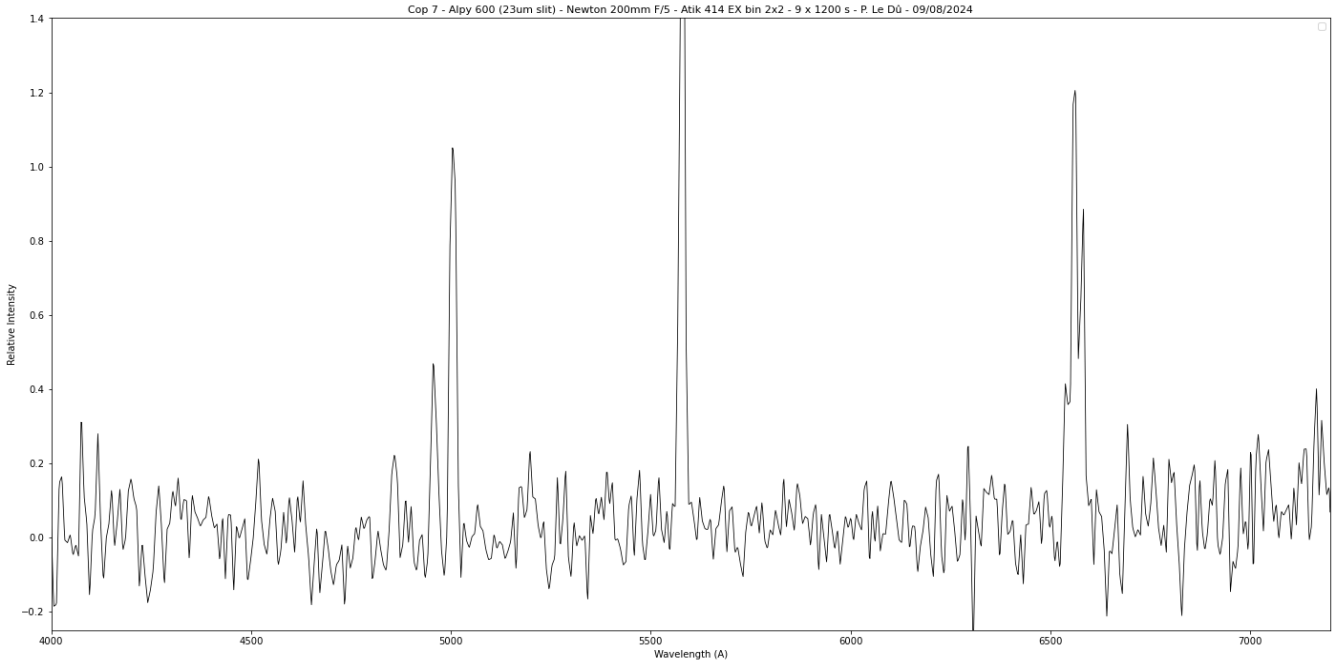
2D Raw spectrum



2D Processed spectrum



Results



Comments

Hbeta, [OIII], Halpha and [NII] lines detected
Cop 7 is probably a true planetary nebula