



Spectroscopic Record Sheet



Details on acquisitions

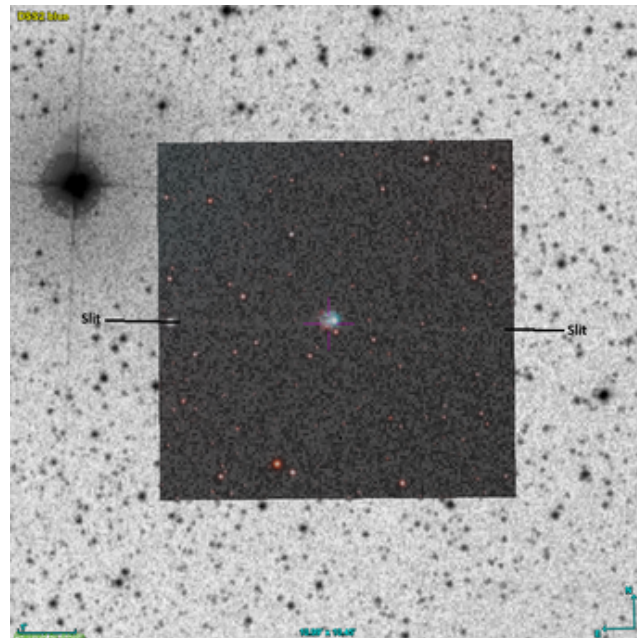
Object	Ek 15
Coordinates (J2000)	20:42:58.69 55:15:15.13
Type	Likely PN

Observation date	10.938/08/2026
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
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.	HD210715_A5V
Exposure on ref star	14 x 6 s
Ref star Sp. date	11.004/08/2026

Slit position



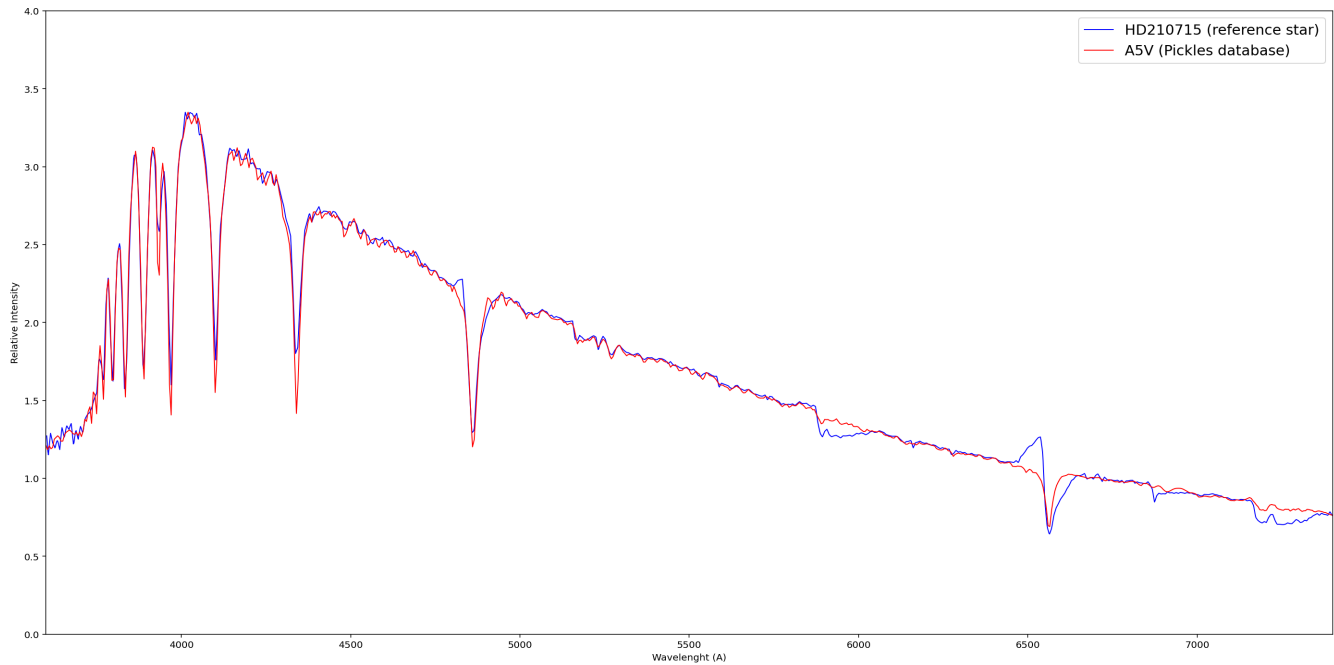
Object picture(s)



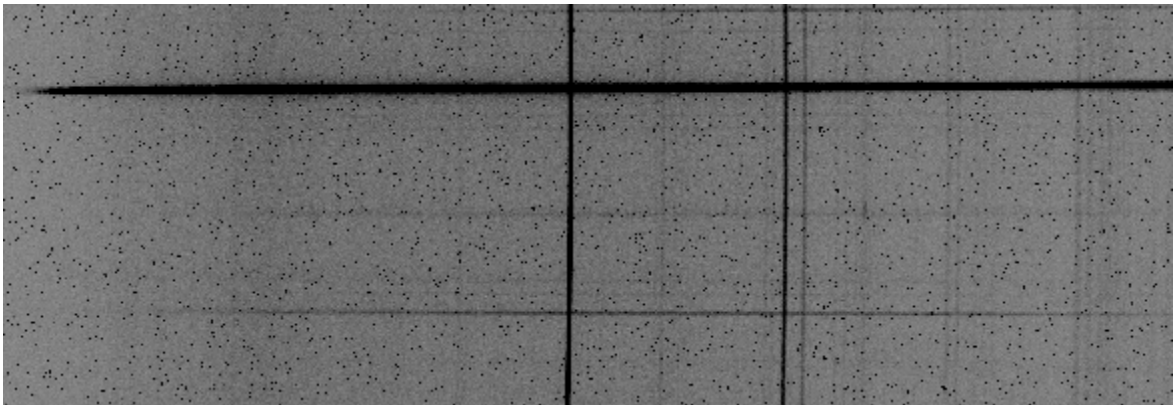


Instrumental Response and 2D Spectra

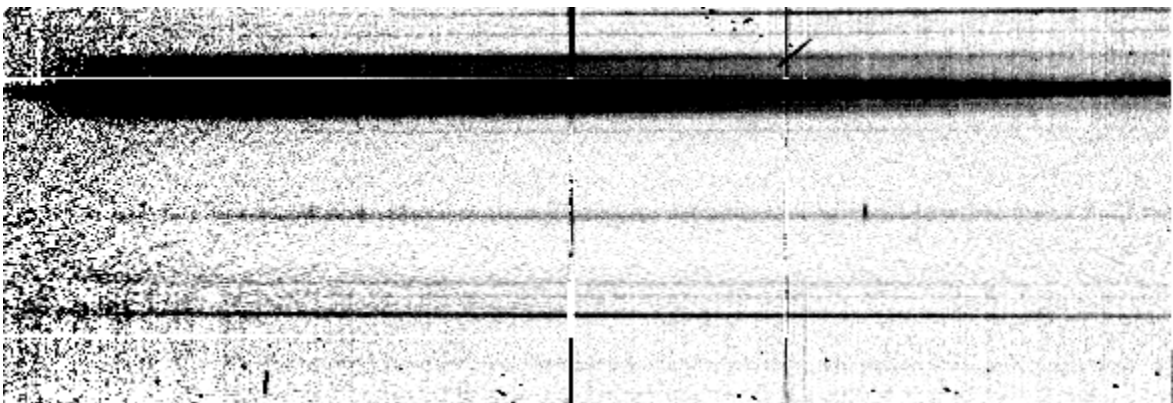
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



2D Raw spectrum

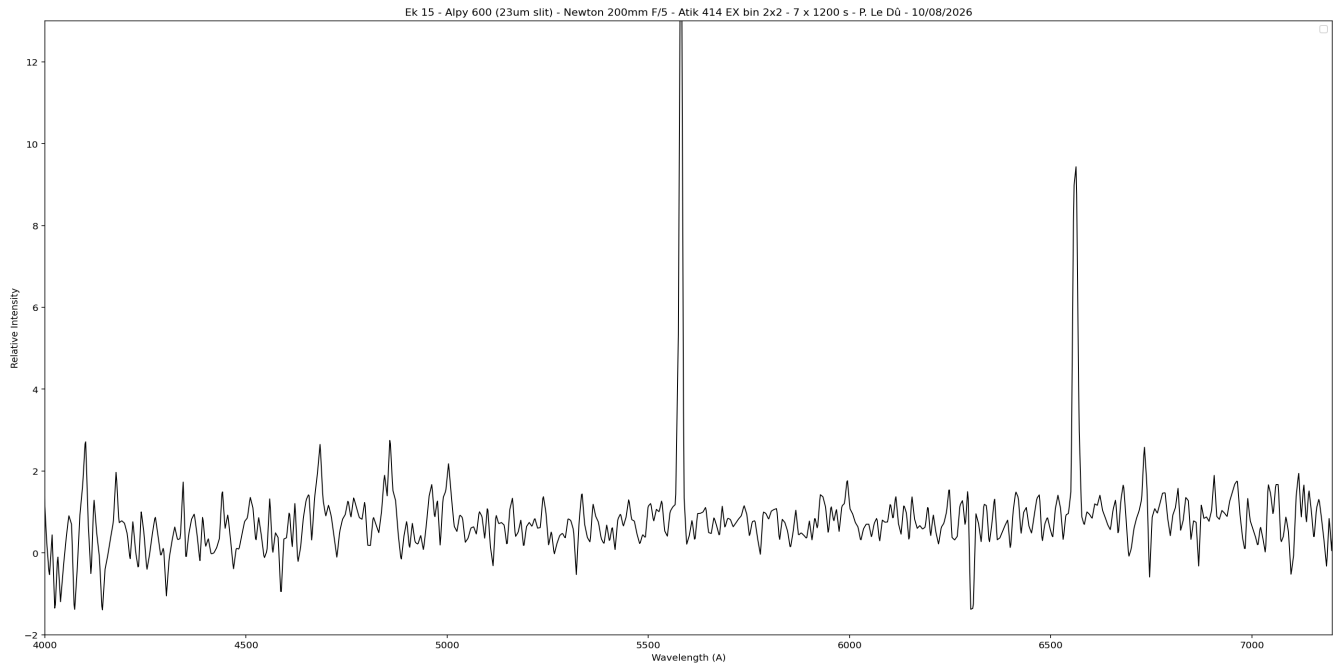


2D Processed spectrum





Results



Comments

HeII(4686), Hbeta, [OIII] and Halpha lines detected.

A bright star showing a continuum is in the field of Ek15.

Ek 15 4 is certainly a true planetary nebula.