



Spectroscopic Record Sheet



Details on acquisitions

Object	Br 8
Coordinates (J2000)	19:51:24.70 +29:50:38.70
Type	/

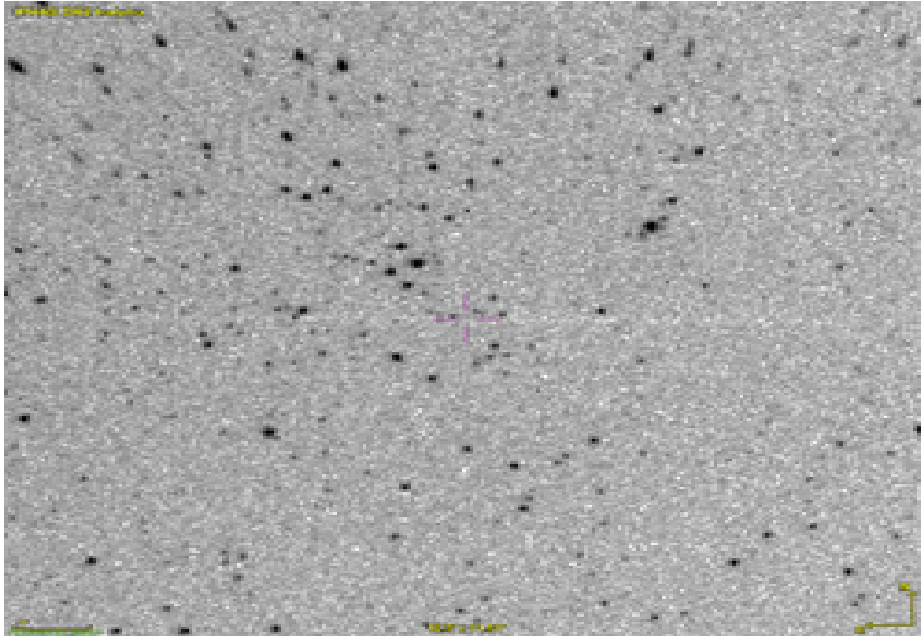
Observation date	13.909/09/2023
Weather conditions	Temp:15°C Hygro: 85% Patm:1023.6 hpa
Observer	P. Le Dû
Location	Kermerrien Observatory (Porspoder, FR)

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

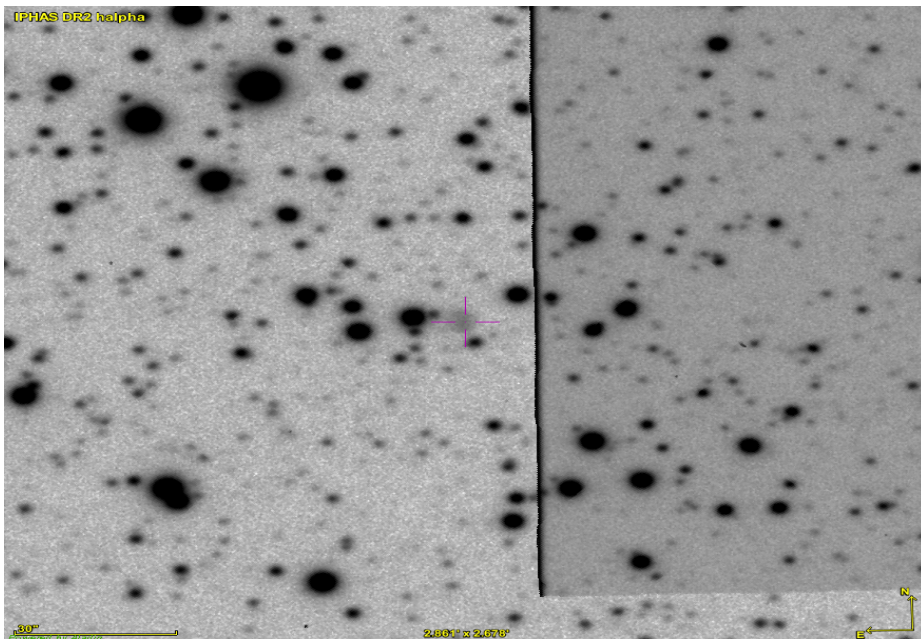
Exposure on object	9 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected

Reference star calib.	HD201433_B9V
Exposure on ref star	14 x 7 s
Ref star Sp. date	13.988/09/2023

Slit position



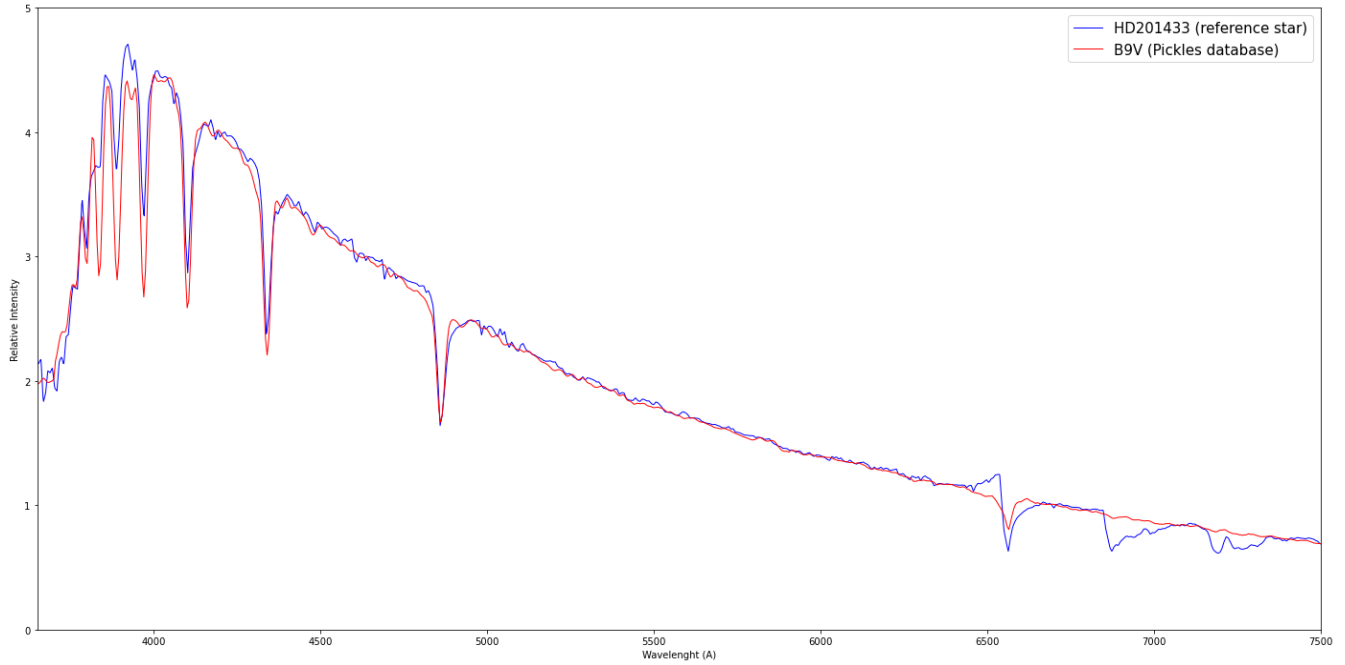
Object picture(s)



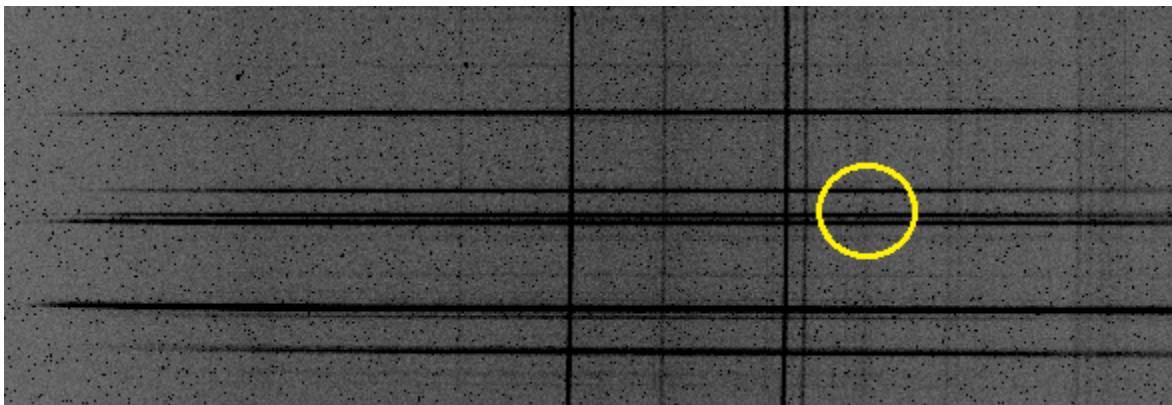


Instrumental Response and 2D Spectra

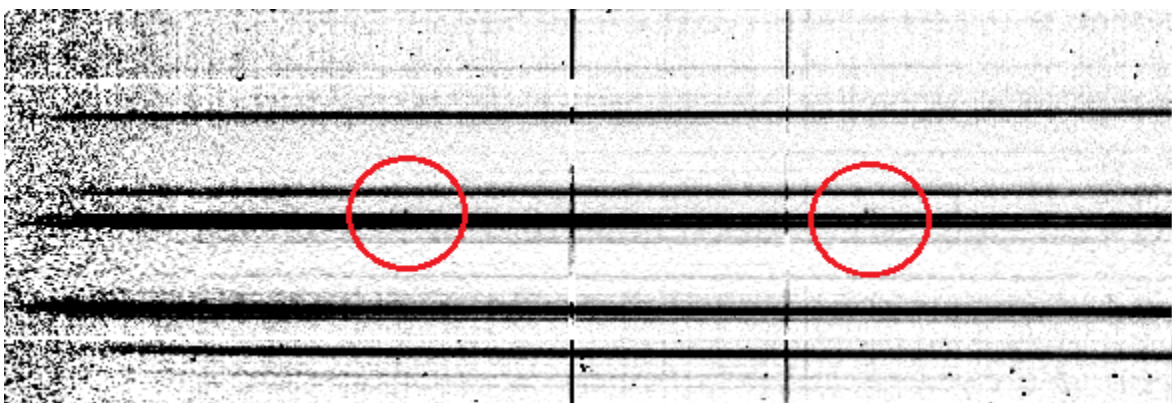
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

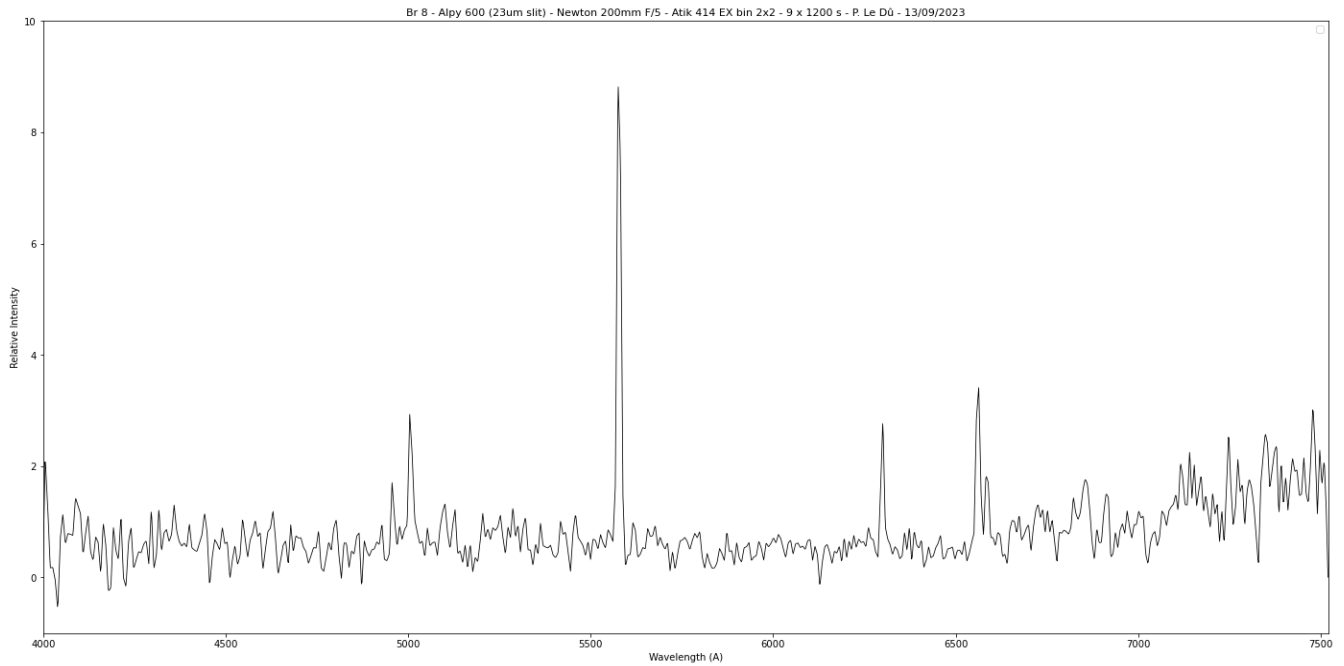


2D Raw spectrum



2D Processed spectrum





Comments

Br 8's signal is hampered by a nearby star in its field.

However, Br 8's powerful signal is perfectly visible.

[OIII], Halpha and [NII](6583A) lines detected.

Br 8 is certainly a true planetary nebula