Spectroscopic Record Sheet

Details on acquisitions

Object	Dr 33
Coordinates (J2000)	19:11:02.73 +15:17:48.00
Type	New candidate

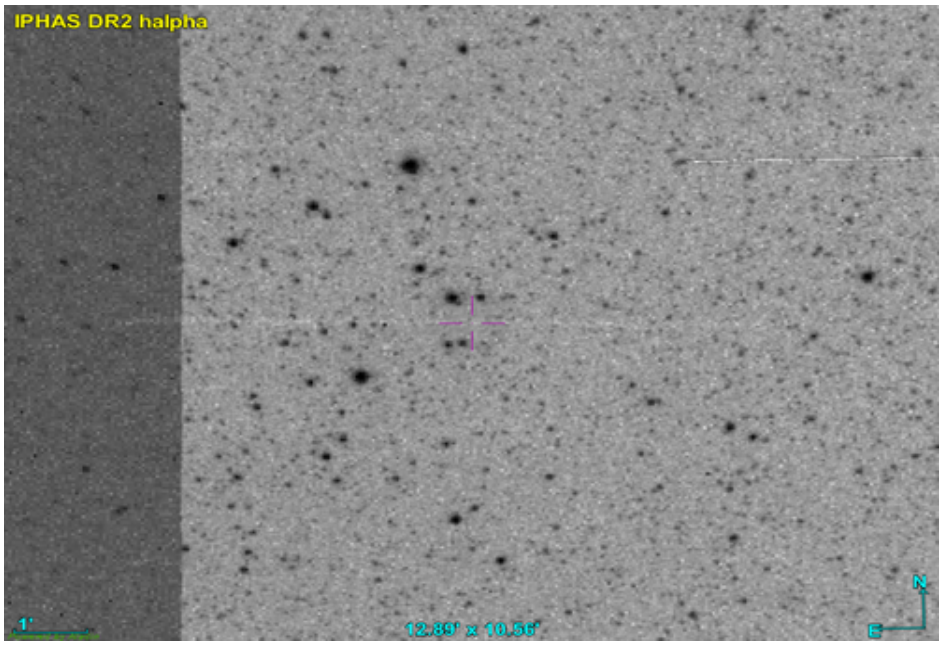
Observation date	16.041/07/2021
Weather conditions	Temp: 15.8°C Hygro: 76% Patm: 1021hpa
Observer	P. Le Dû
Location	Kermerrien Observatory (Porspoder, FR)

Mount	Losmandy G11
Telescope	Newton 200mm F/5
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1 Å at l656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at l656 nm
Cam temperature	-10°C
Binning	2x2
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.11.908
Data processing soft	ISIS V6.1.1

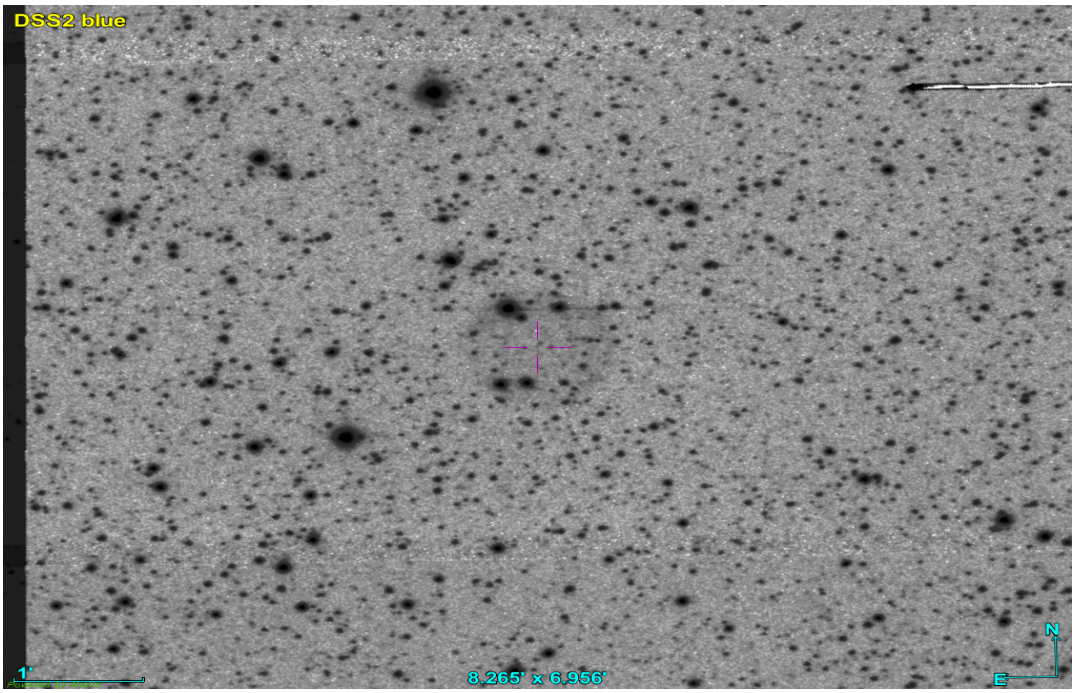
Exposure on object	5 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD182919_A0V
Exposure on ref star	14 x 15 s
Ref star Sp. date	16.098/07/2021

Images and slit position

Slit position

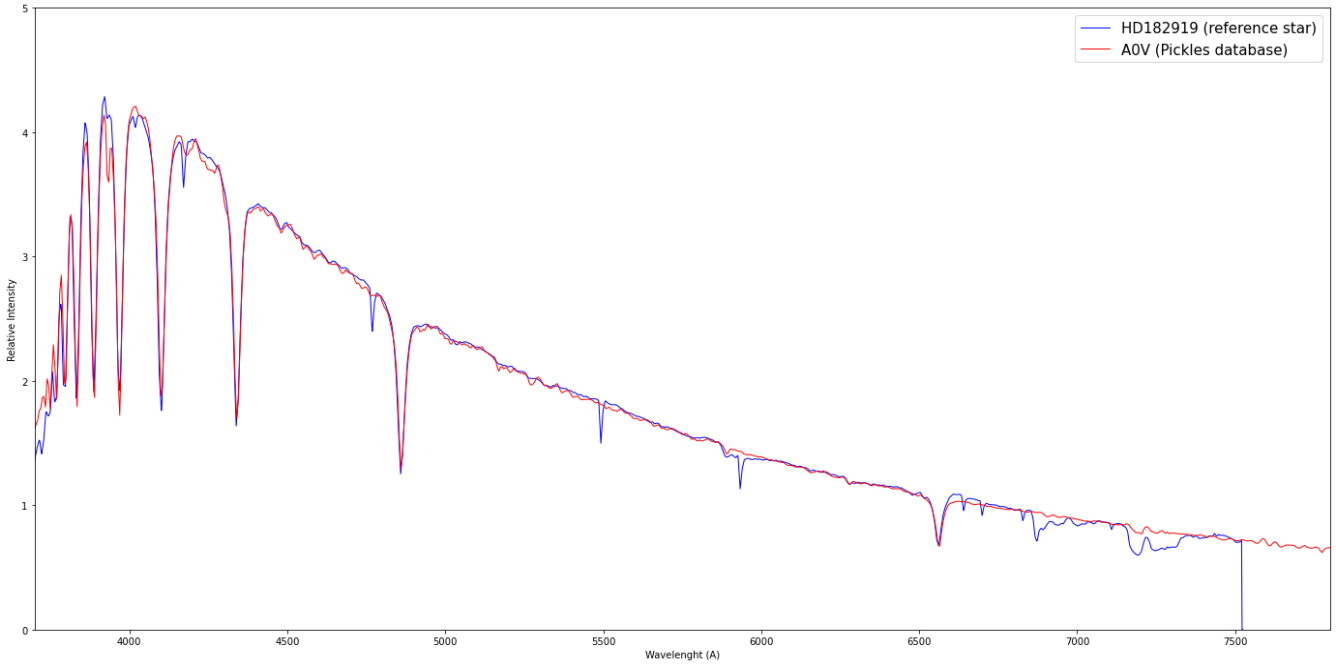


Object picture(s)

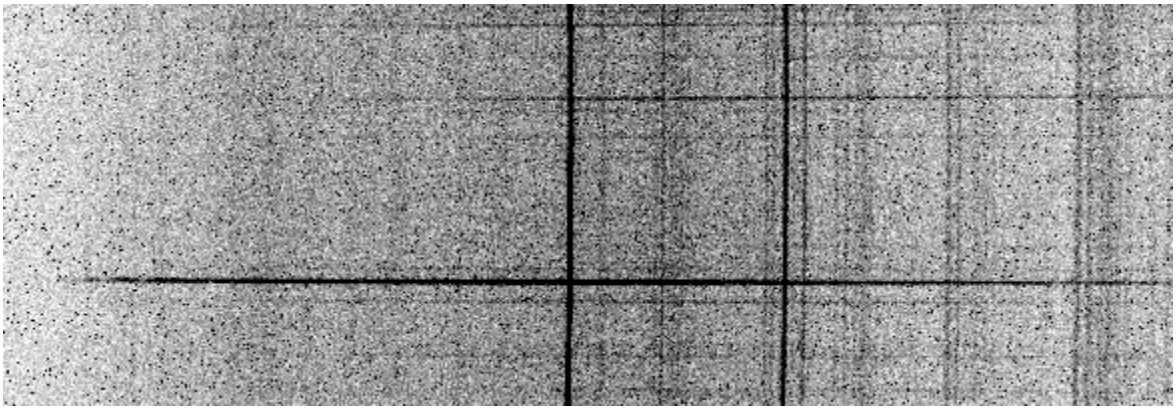


Instrumental Response and 2D Spectrum

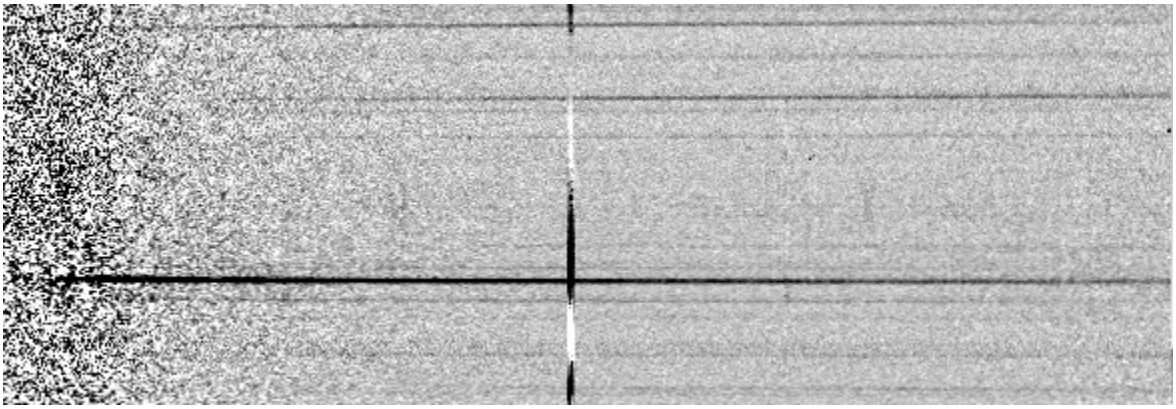
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



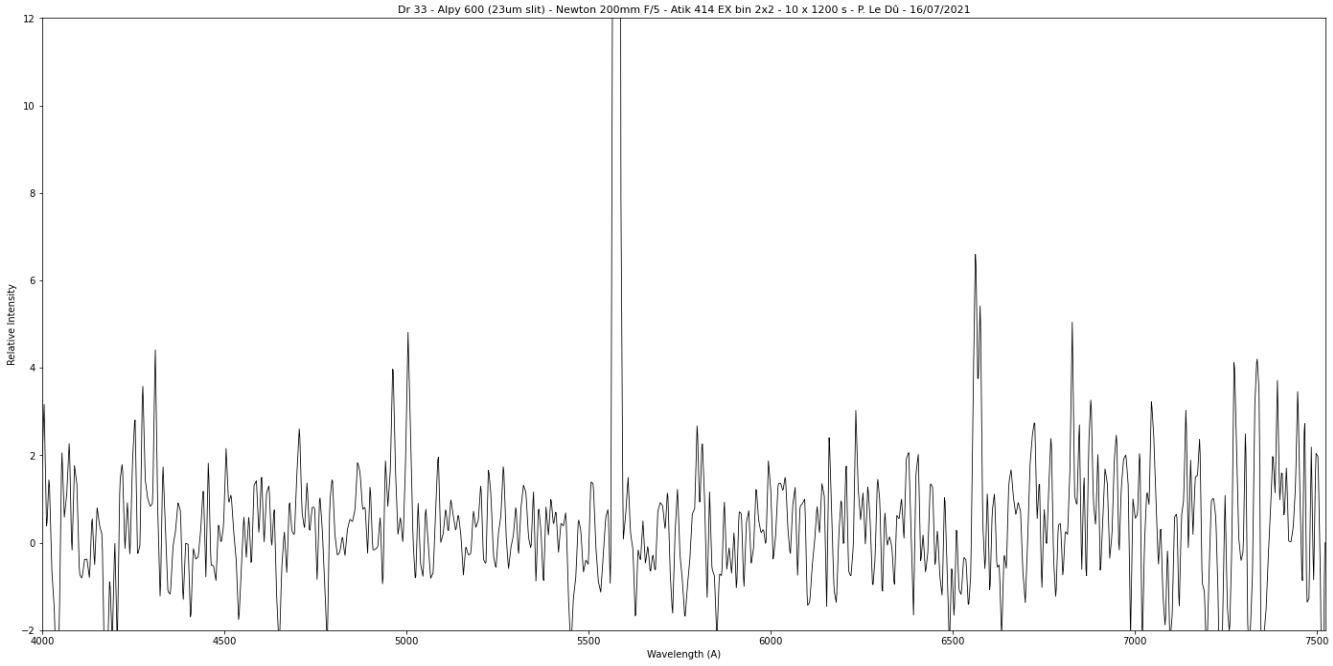
2D Raw spectrum



2D Processed spectrum



Results



Comments

[OIII], Halpha and [NII](6583A) lines detected. Object showing PN characteristics.