



Spectroscopic Record Sheet



Details on acquisitions

Object	IPHASXJ055711.7+282322
Coordinates (J2000)	05:57:11.70 28:23:22.42
Type	PN candidate

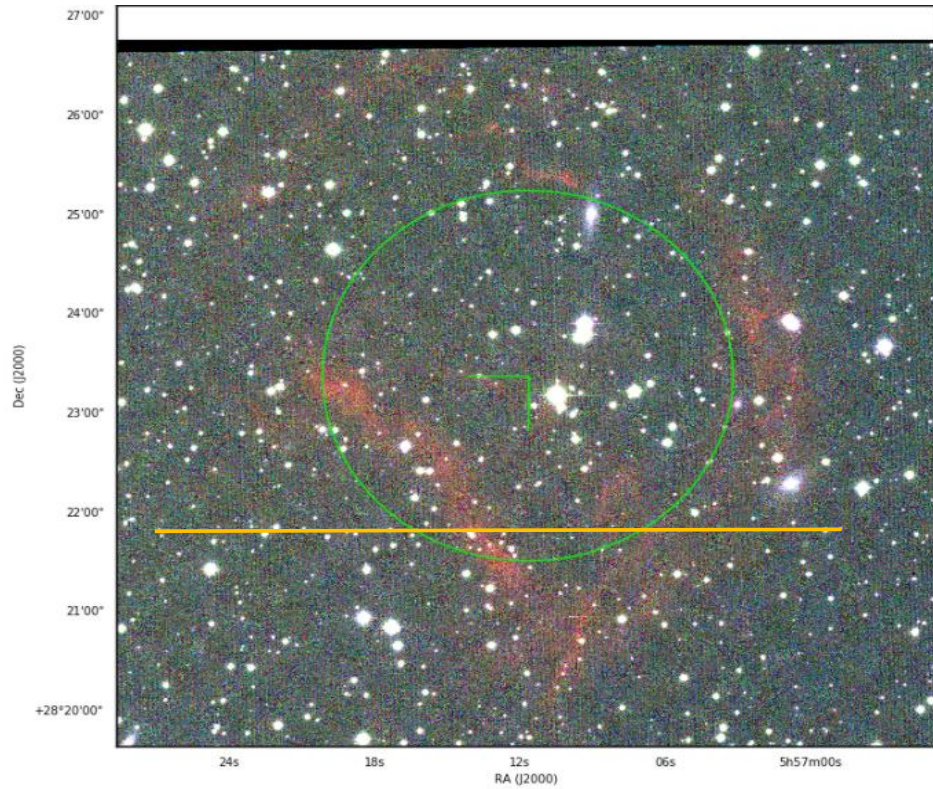
Observation date	27.126/09/2020 (d/m/y)
Meteorological conditions	20°C
Observer	L.Mulato
Location	Cornillon France

Mount	NEQ6
Telescope	Newton Skywatcher 200 mm F/5
Spectrograph	Alpy 600 - 23 μm slit
Resolution (bin 1x1)	$\sim 1 \text{ \AA}$ at $\lambda 656 \text{ nm}$
Science camera	ATIK 414 EX
Dispersion (bin 1x1)	$\sim 0,3 \text{ nm/pixel}$ at $\lambda 656 \text{ nm}$
Cam Temperature	0 °C
Binning	2x2
Guiding camera	ASI290 MM non cooled
Data acquisition Soft	PRISM V10
Data processing Soft	Isis V5.9.3

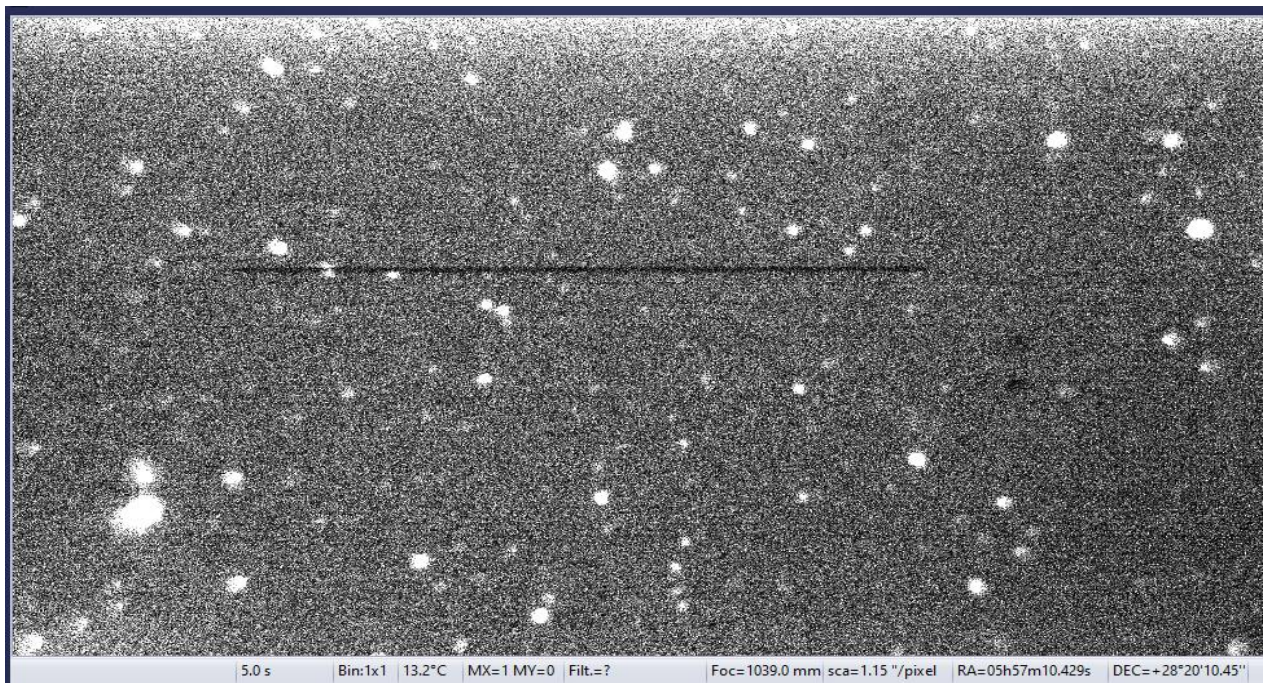
Exposure on object	6	x	1200	s
Master Dark date	27/09/2020	(d/m/y)		
Dark Exposure	3	x	1200	s
Dark Temperature	-10	°C		
Master Offset date	27/09/2020	(d/m/y)		
Master Flat date	27/09/2020	(d/m/y)		
Neon-Argon calib. date	27/09/2020	(d/m/y)		
Reference star calib.	HD39357_A0V			
Exposure on ref star	24	x	4	s
Ref Star Sp. date	27.173/09/2020			

Image IPHAS Colours

Orange line :
Slit position



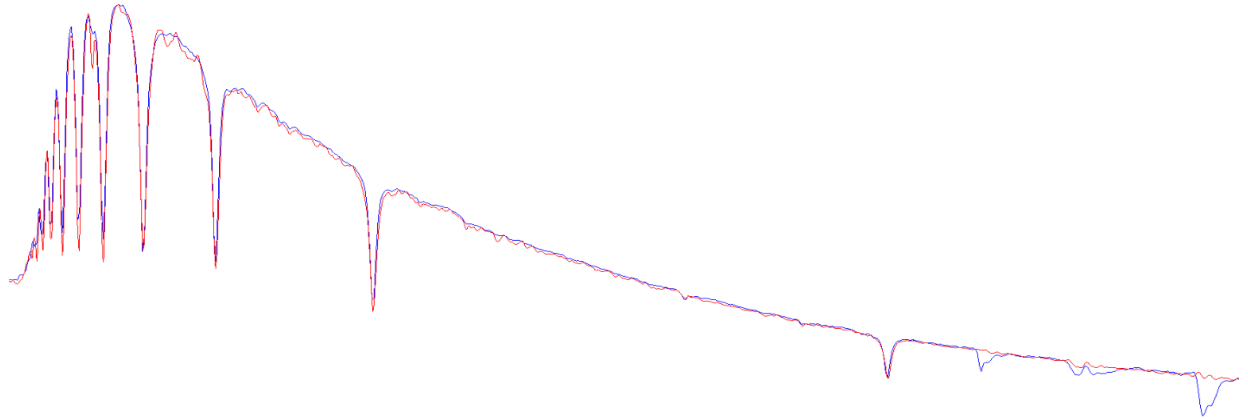
Autoguider slit position



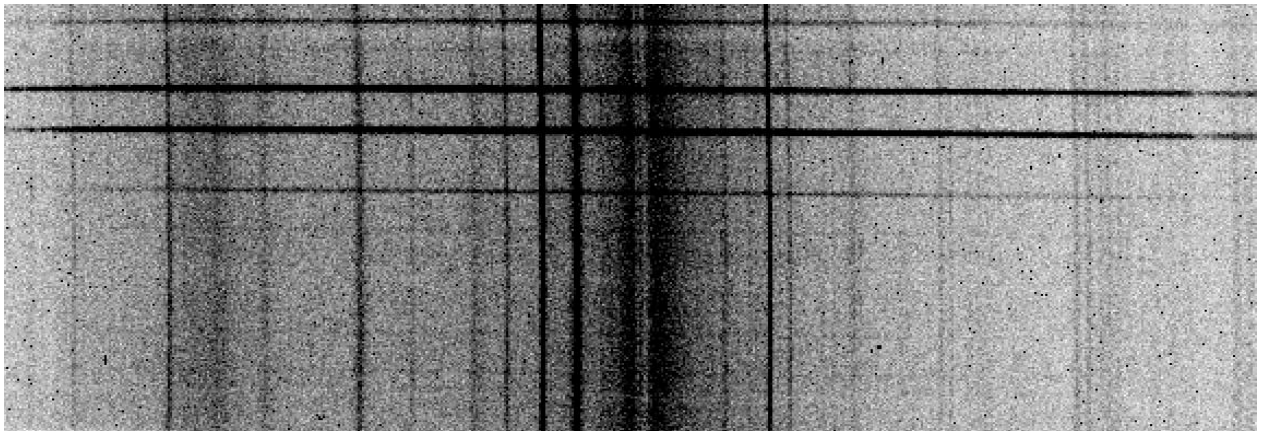


Instrumental Response and 2D Spectrum

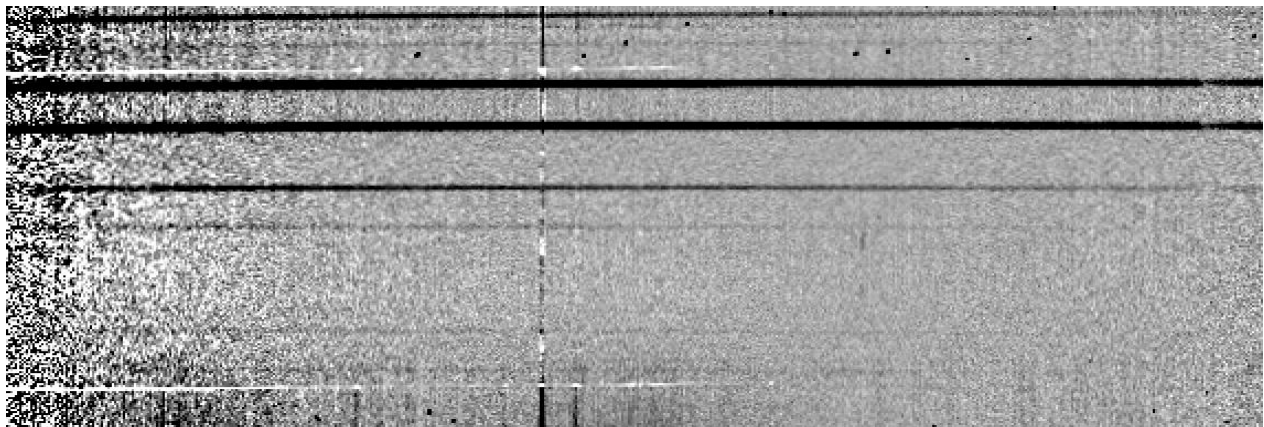
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

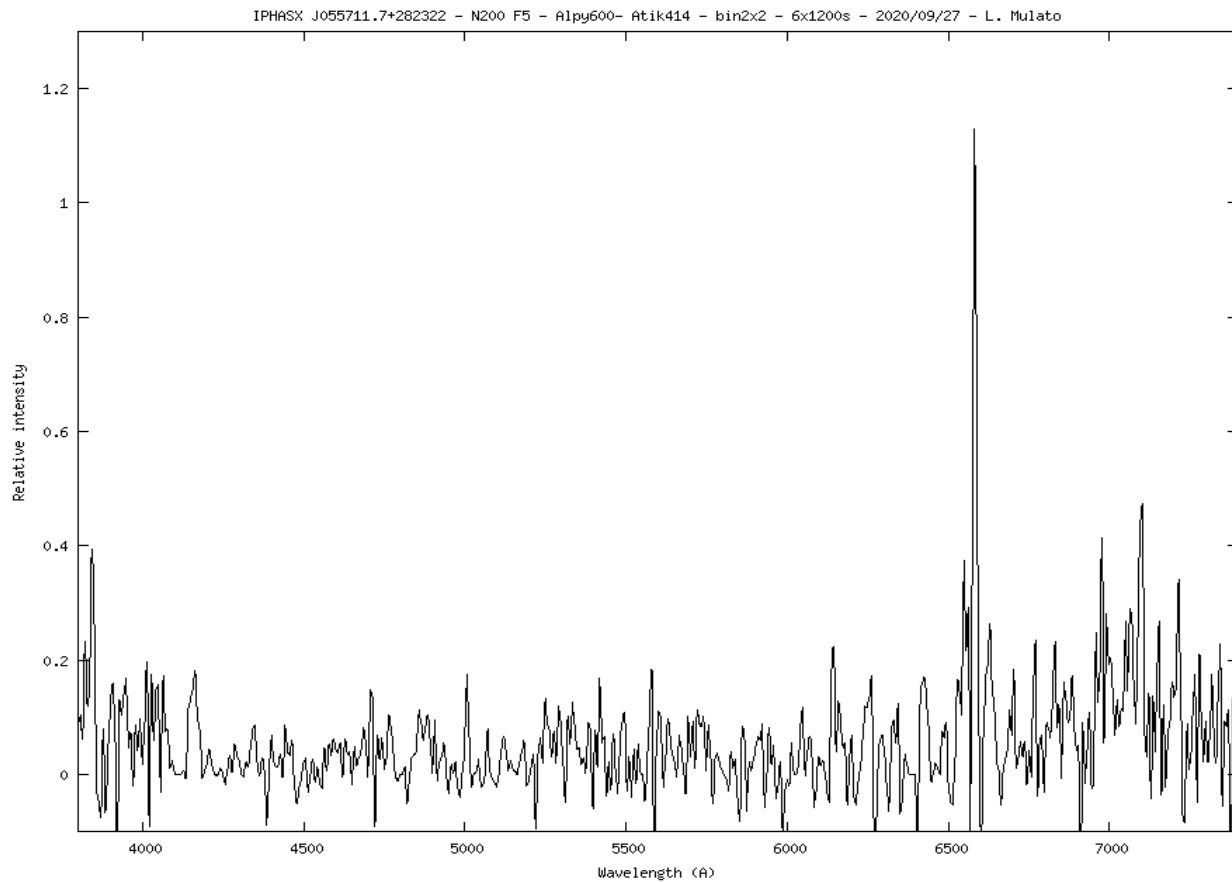


2D Raw spectrum



Processed 2D spectrum





Comments :

Detected lines : [NII] doublet, weak H-alpha, [NII] >> H-alpha. Maybe weak [OIII]5007 line in blue. [SII] doublet undetected.

IPHASX J055711.7+282322 is a very faint nebula, likely a PN rather than a SNR.

