



Spectroscopic Record Sheet



Details on acquisitions

Object	Pa124
Coordinates (J2000)	19:08:23.60 02:33:01.00
Type	PN Candidate

Observation date	14.824/09/2020	(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	5	x	1200	s
Master Dark date	28/06/2020	(d/m/y)		
Dark Exposure	18	x	1200	s
Dark Temperature	0	°C		
Master Offset date	22/05/2020	(d/m/y)		
Master Flat date	20/06/2020	(d/m/y)		
Neon-Argon calib. date	14/09/2020	(d/m/y)		
Reference star calib.	HD183324_A0V			
Exposure on ref star	18	x	10	s
Ref Star Sp. date	14.868/09/2020			



Images and slit position

Image IPHAS

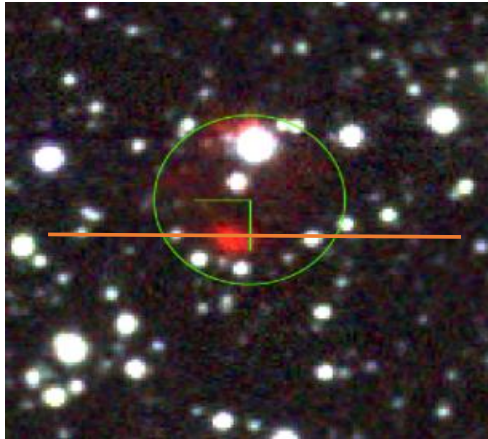
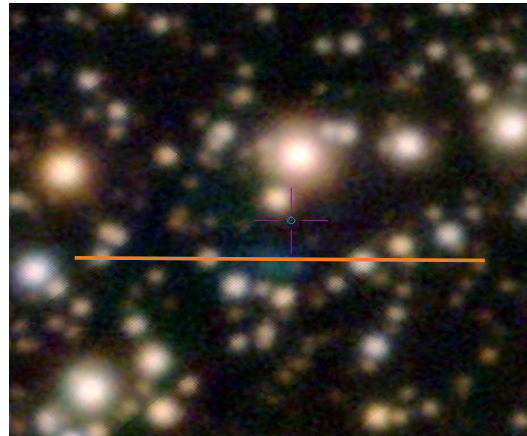
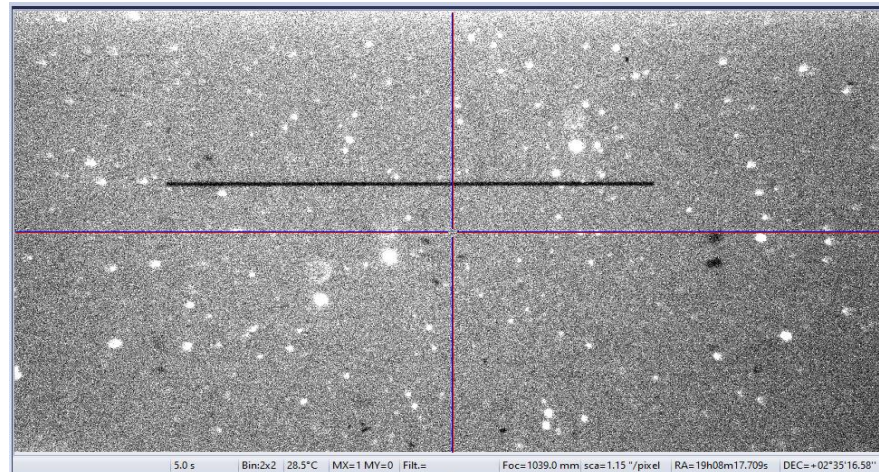


Image PanSTARRS i-r-g



Slit position autoguider



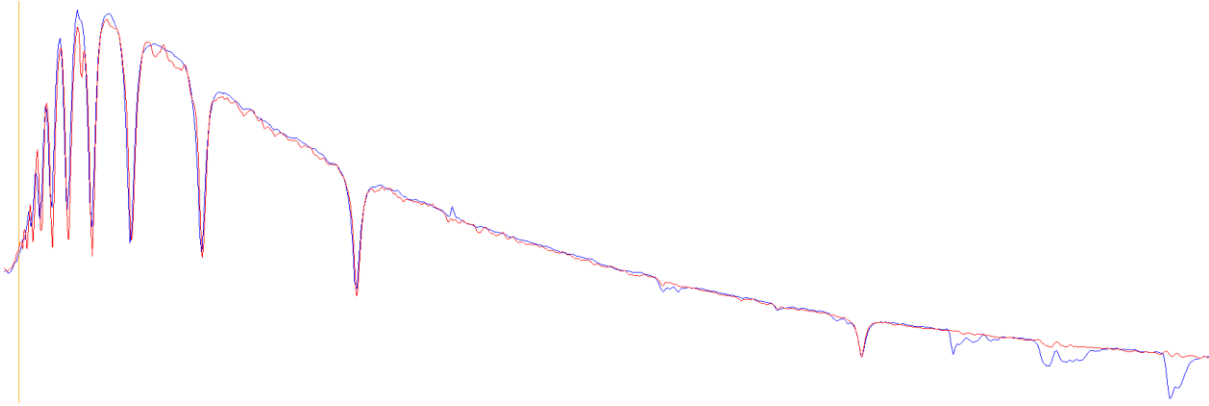
Slit position IPHAS



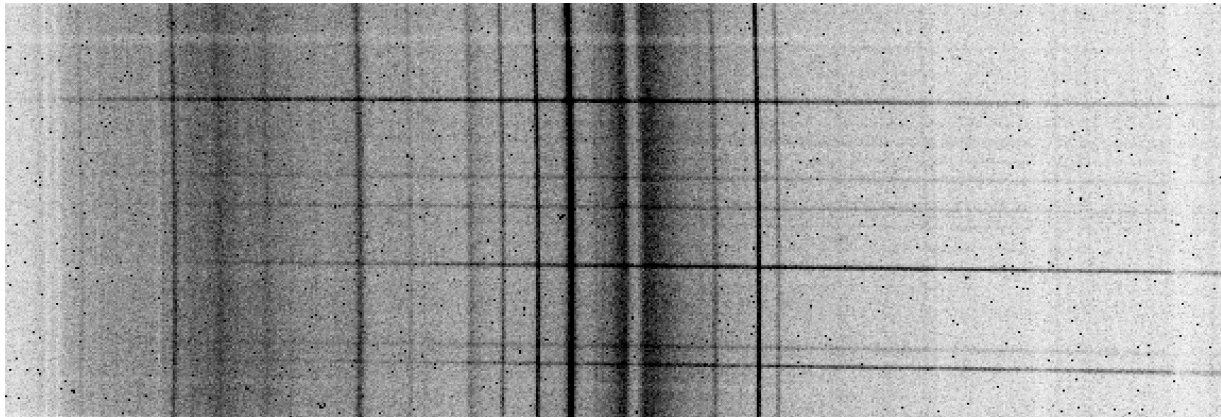


Instrumental Response and 2D Spectrum

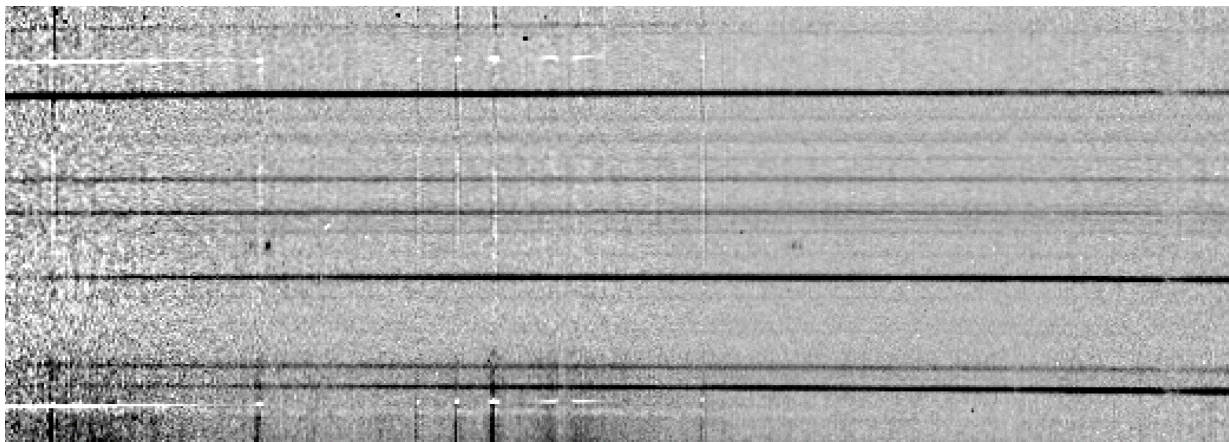
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

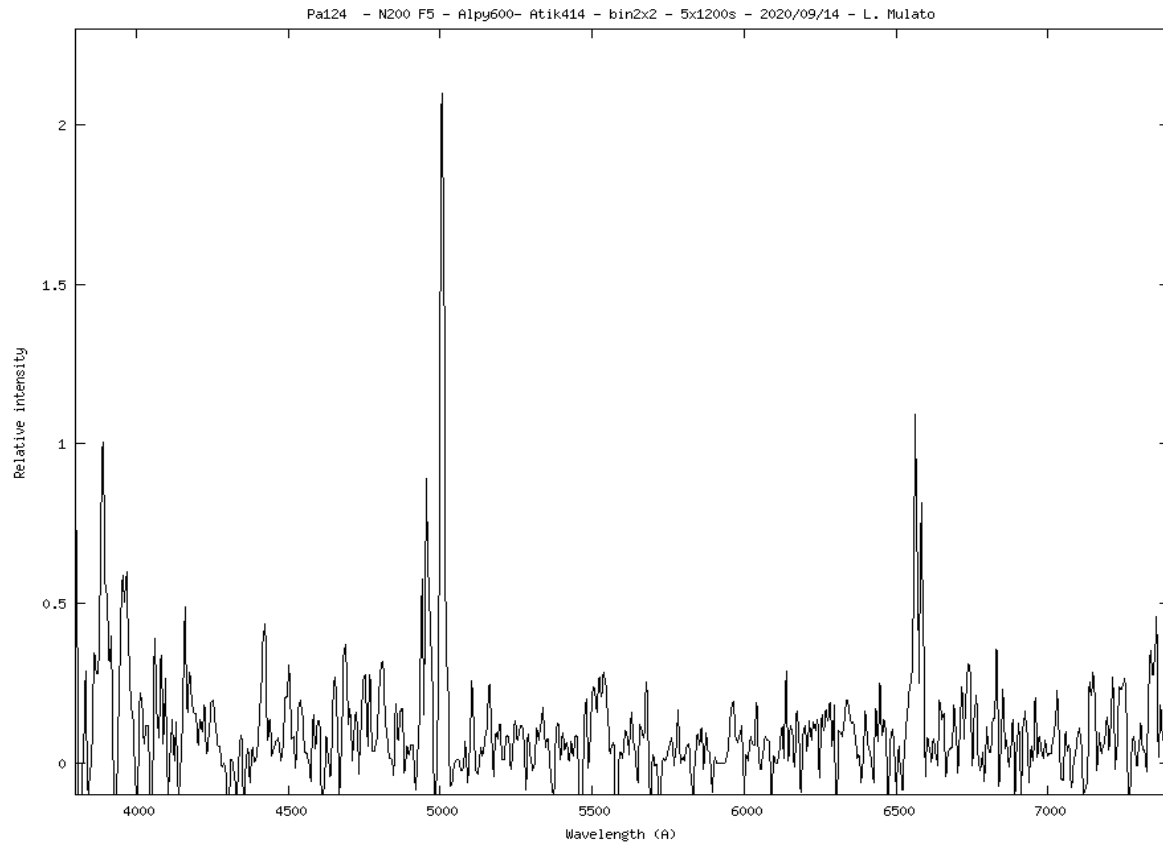


2D Raw spectrum



Processed 2D spectrum





Comments :

Slit placed on the bright clump of Pa124 (south part)

Detected lines : strong [O III], no H-beta,[N II] 6548/6583 ~ H-alpha.

Pa 124 is certainly a PN.

