



Spectroscopic Record Sheet



Details on acquisitions

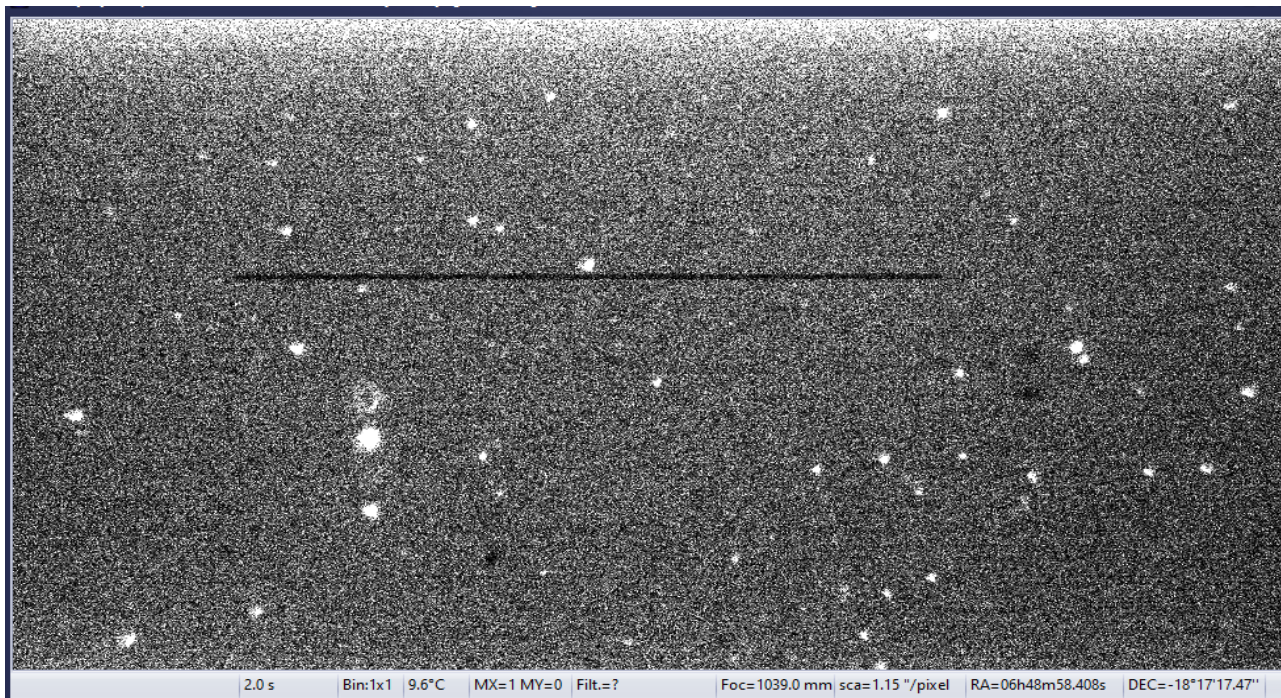
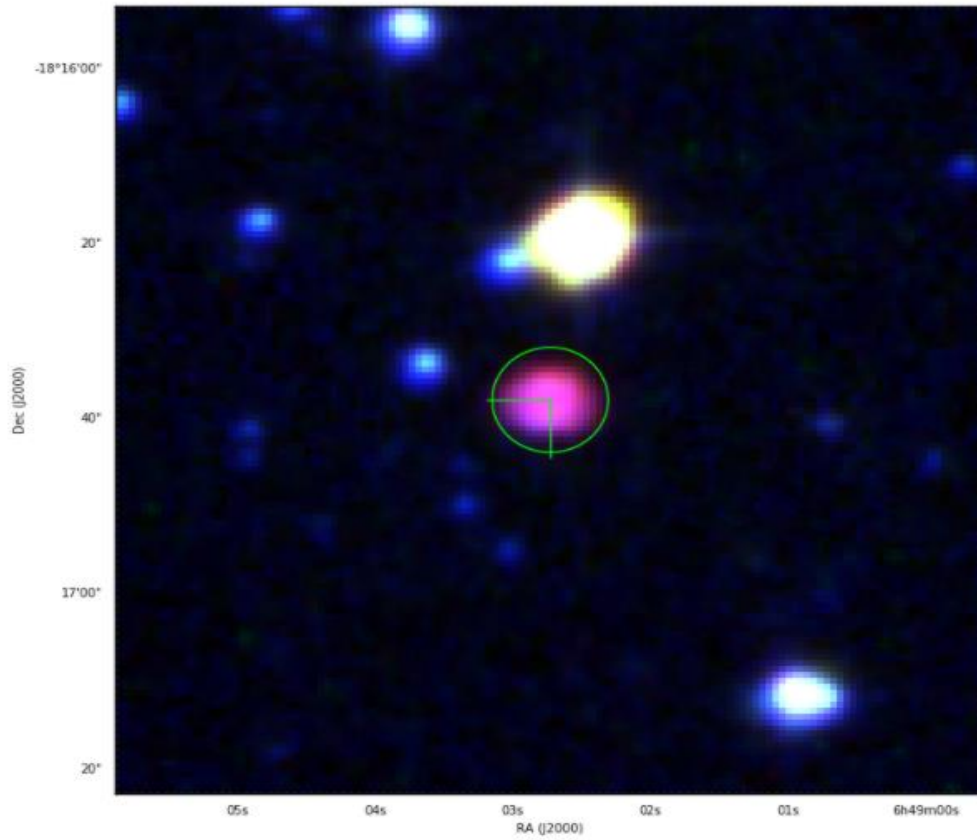
Object	MPAJ0649-1816
Coordinates (J2000)	06:49:02.70 -18:16:37.92
Type	PN candidate

Observation date	19.042/11/2020 (d/m/y)
Meteorological conditions	2°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	-10 °C
Binning	2x2
Guiding camera	ASI290 MM non cooled
Data acquisition Soft	PRISM V10
Data processing Soft	Isis V5.9.3

Exposure on object	4	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	19/11/2020	(d/m/y)		
Neon-Argon calib. date	19/11/2020	(d/m/y)		
Reference star calib.	hd55185_A2V			
Exposure on ref star	13	x	8	s
Ref Star Sp. date	14.000/01/2021			

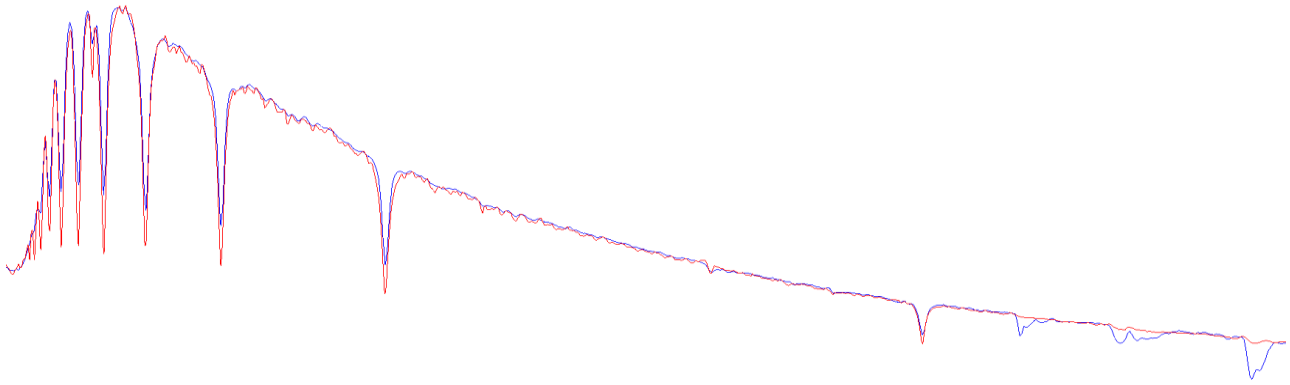
Image SHS



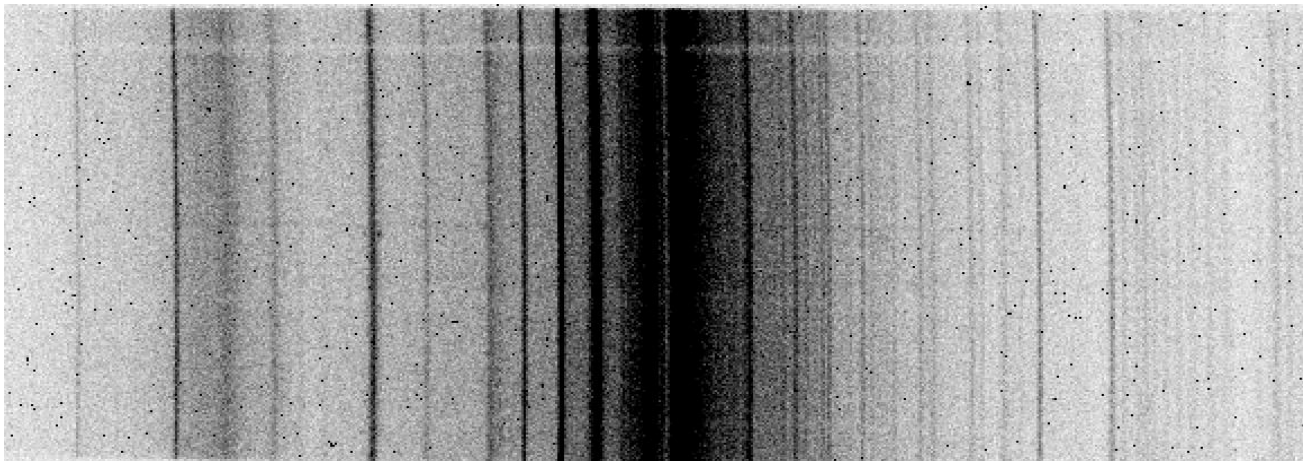


Instrumental Response and 2D Spectrum

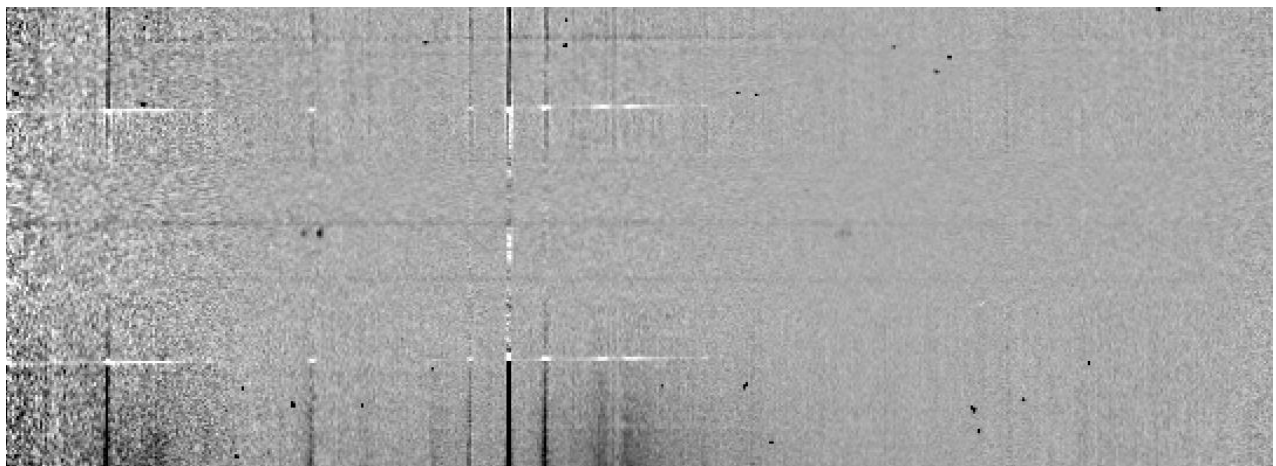
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

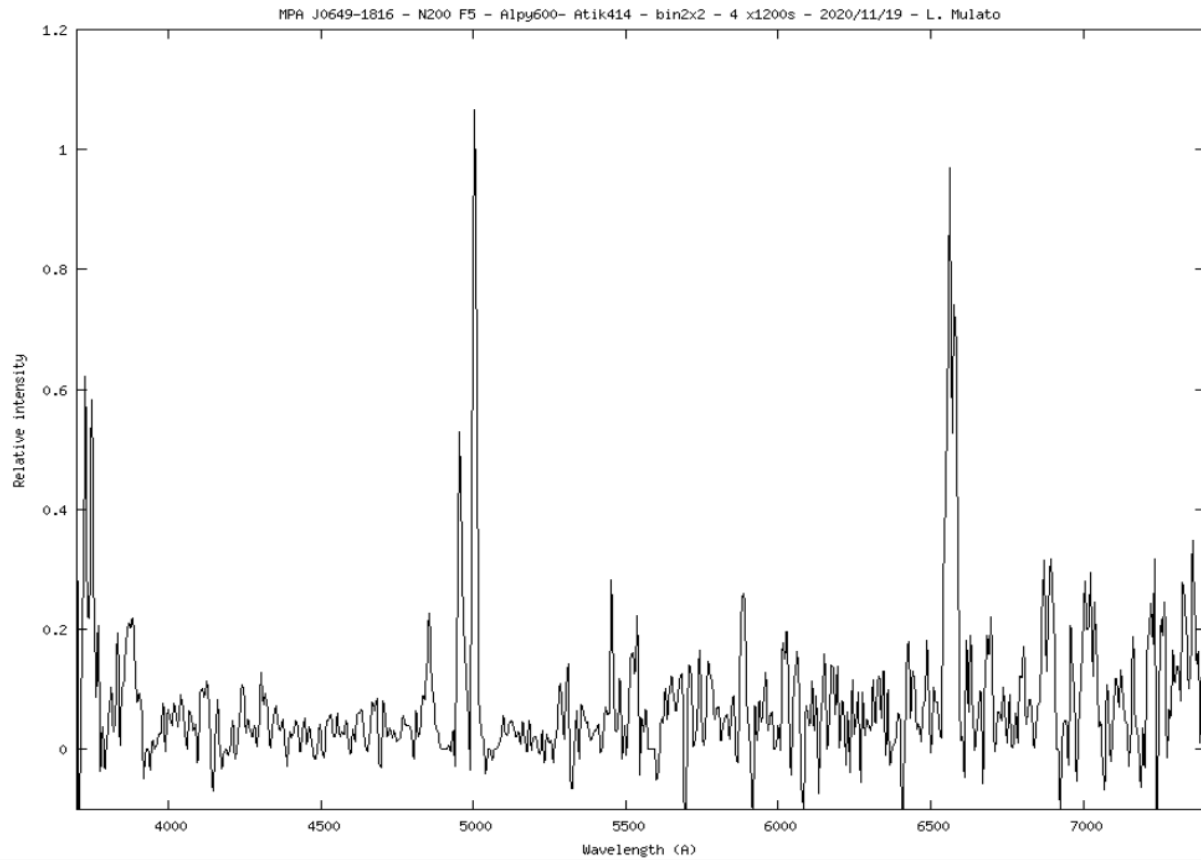


2D Raw spectrum



Processed 2D spectrum





Detected lines : [OIII] >> Hbeta ; [NII]6853~0,8 Halpha.

MPAJ0649-1816 may be a True PN.

NOTA :The reference star spectrum couldn't be taken during MPAJ0649-1816 observing night (the sky suddenly turned cloudy). A reference star spectrum taken at another date (close to the nebula) was used for data reduction.

