

## Spectroscopic Record Sheet 25POT



	Details on acquisitions
Object	StDr Objet 9
Coordinates (J2000)	07:30:16.64 -19:59:22.43
Туре	PN candidate
Observation data	F = 1.41/0.2/20.022 (d/m/s)
Matagralagical conditions	3.141/02/2022 (u/III/y)
	ZSPUT Deep Sky Chile (CL)
Location	Deep sky chile (CL)
Mount	10 Micron GM3000 HPS
Telescope	Ritchey-Chrétien RC12
Spectrograph	Alpy 600 - 23 μm slit
Resolution (bin 1x1)	~1 Å at λ656 nm
Science camera	ATIK 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at λ656 nm
Cam Temperature	-10 °C
Binning	2x2
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.18.922
Data processing Soft	ISIS V6.1.1
Exposure on object	5 x 1200 s
Master Dark	Corrected
Master Offset date	Corrected
Master Flat	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD73495_A0V
Exposure on ref star	15 x 2 s
Ref Star Sp. date	5.206/02/2022



## Images and slit position

Image M. Drechsler, X. Strottner

Orange line : position of the slit



Autoguider image on SHS with slit position :







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Results



Detected lines : [N II] > Ha, weak [O III]. StDr Objet 9 is certainly a PN according to the spectrum, the image and the probable blue central star.

The spectrum above is a combination of 2 spectra processed from the same raw data :

- the first at the edge of the nebula (East) where Ha+[N II] emission is stronger,

- the latter towards the center of the Nebula (West) where [O III] emission is extremely faint but visible.