



# Spectroscopic Record Sheet



## Details on acquisitions

Object	Mul-Ir 62
Coordinates (J2000)	16:16:16.30 -49:26:49.00
Type	Likely PN

Observation date	4.372/03/2022
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

Mount	10 Micron GM3000 HPS
Telescope	Ritchey-Chrétien RC12
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1nm at 656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at 656 nm
Cam temperature	-10°C
Binning	2x2
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.12.911
Data processing soft	ISIS V6.1.1

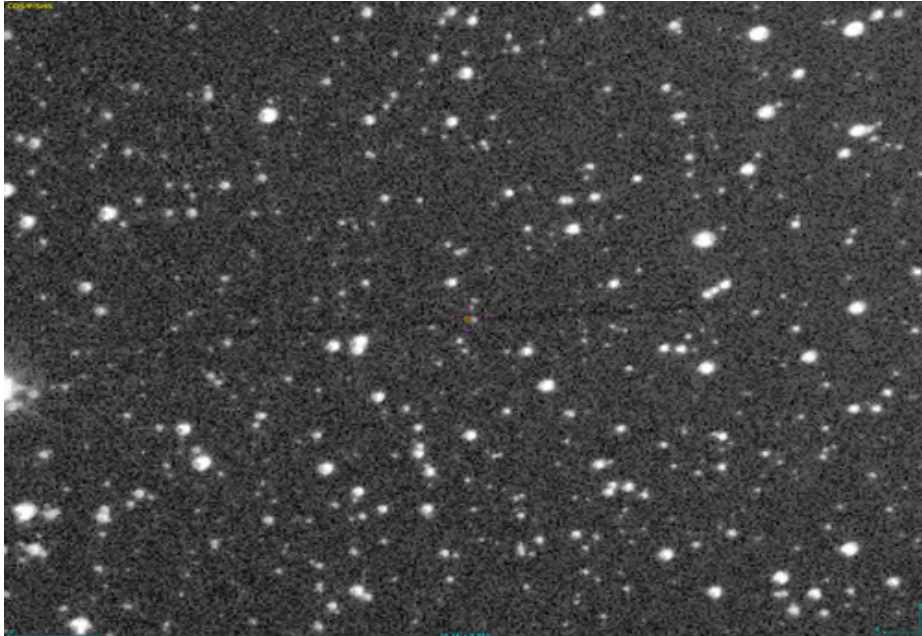
Exposure on object	4 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected

Reference star calib.	HD119921_A0V
Exposure on ref star	20 x 5.5 s
Ref star Sp. date	4.311/03/2022

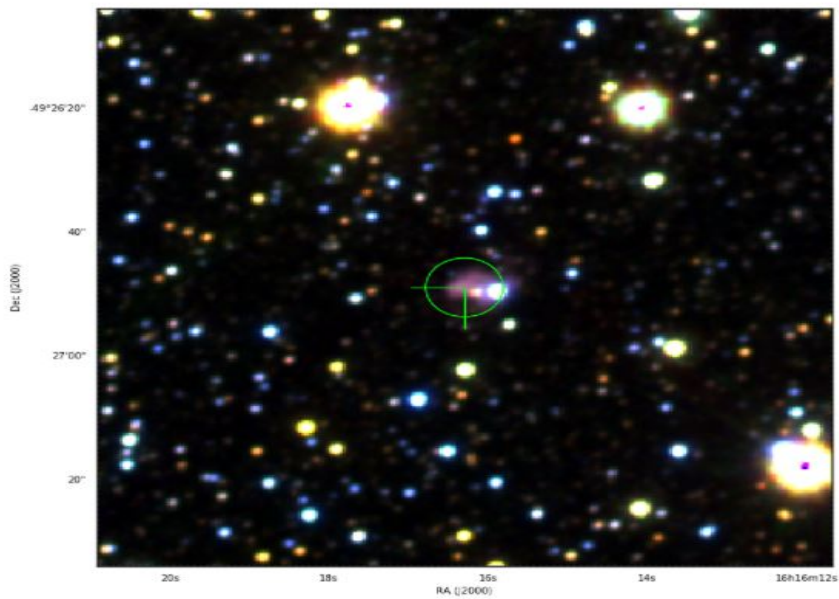


## Slit position and images

Slit position



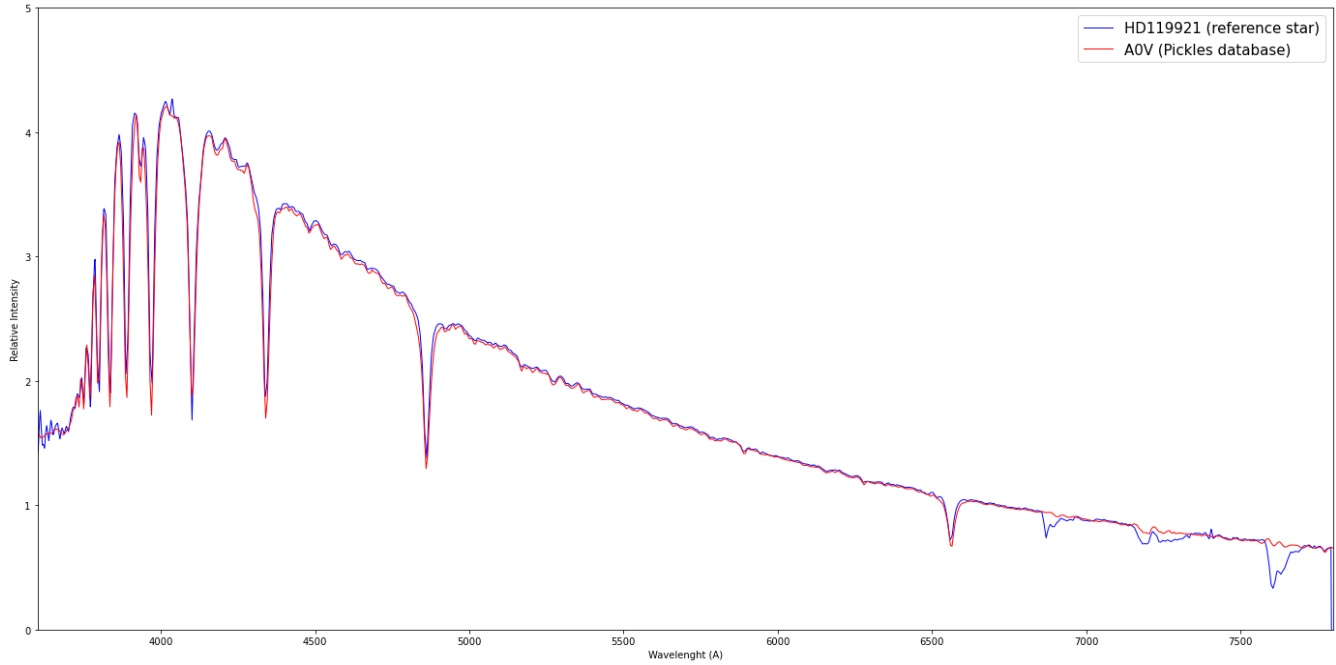
Object picture(s)



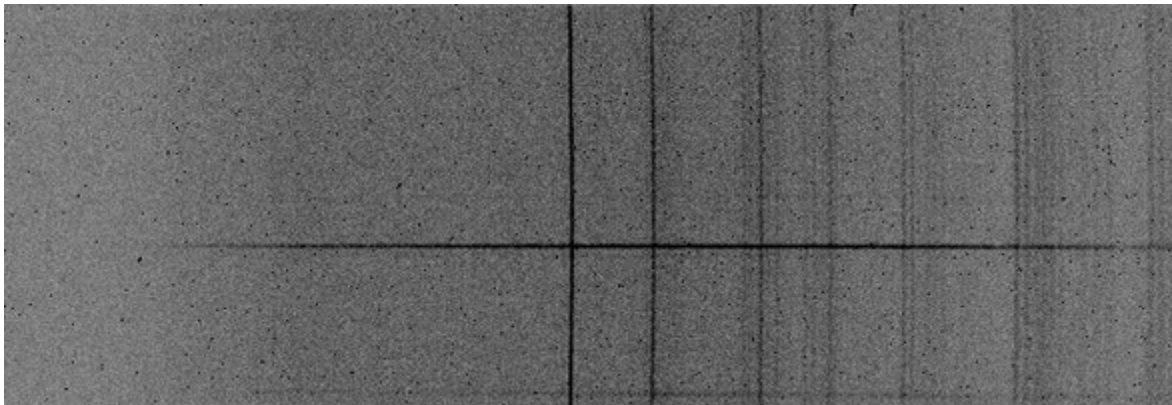


# Instrumental Response and 2D Spectrum

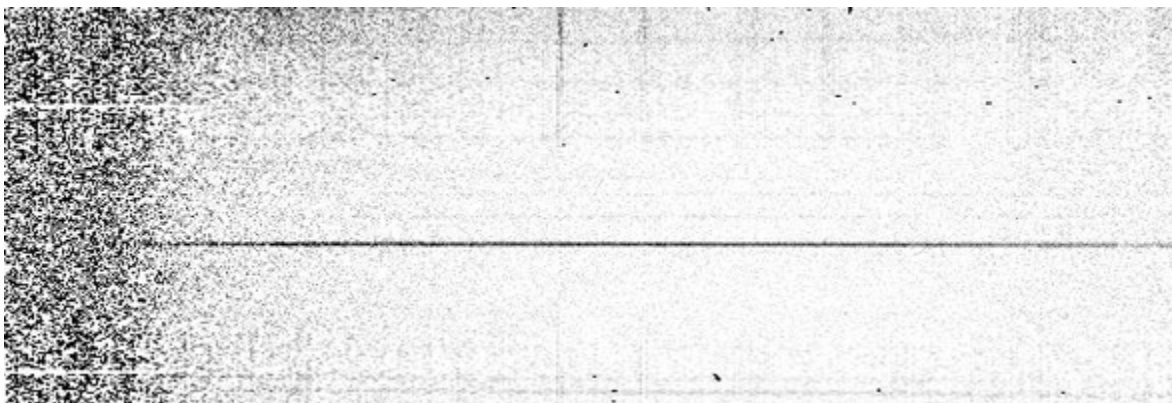
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

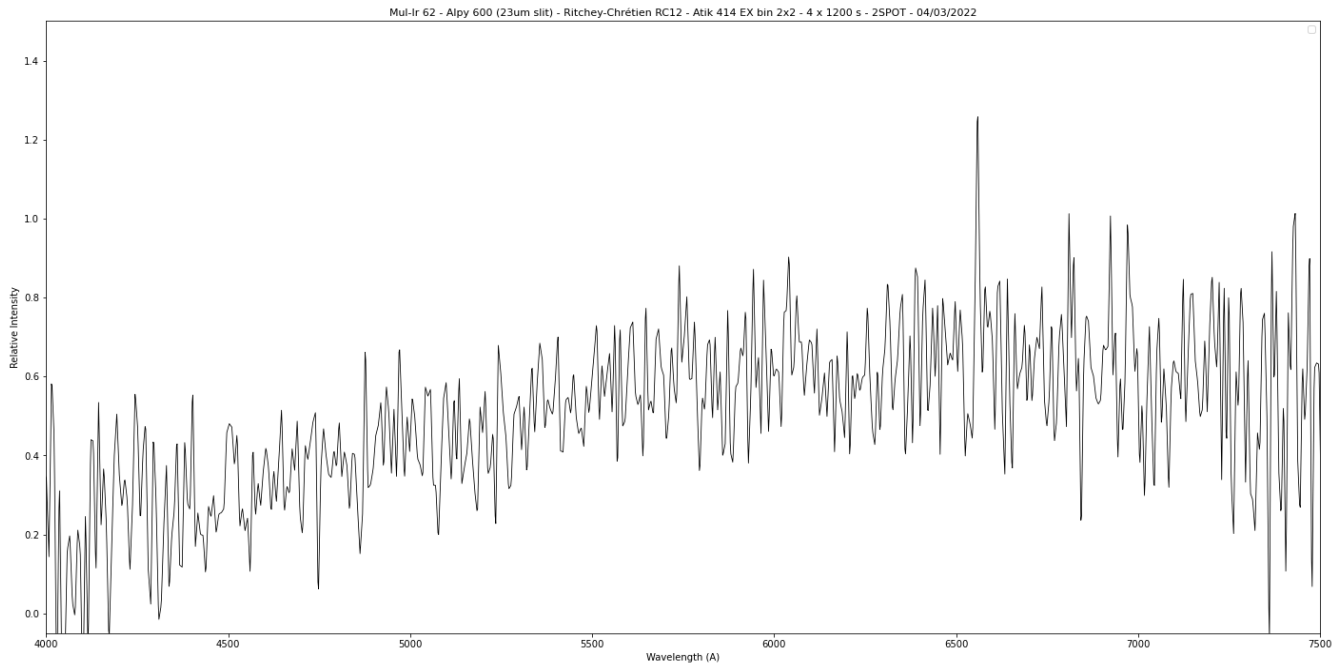


## 2D Raw spectrum



## 2D Processed spectrum





## Comments

Object found with MIR colour criteria in 2014.  
 Compact SHS source.  
 Strong WISE source.  
 Clearly visible on Vista Survey, but close to a bright star.

Detected lines :  
 Ha only, nothing in blue.  
 Spectrum polluted by the continuum of the close bright star.  
 Mul-IR 62 may be a PN suffering high extinction.