Spectroscopic Record Sheet

Details on acquisitions

Object	Mul 5
Coordinates (J2000)	09:42:39.81 -52:16:57.68
Type	New candidate

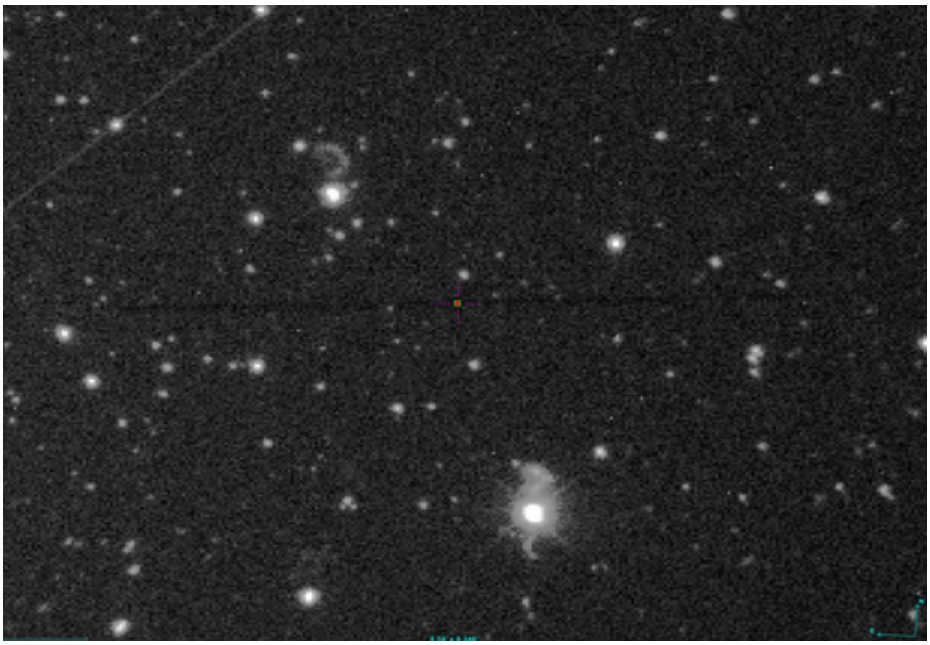
Observation date	4.227/03/2022
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

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

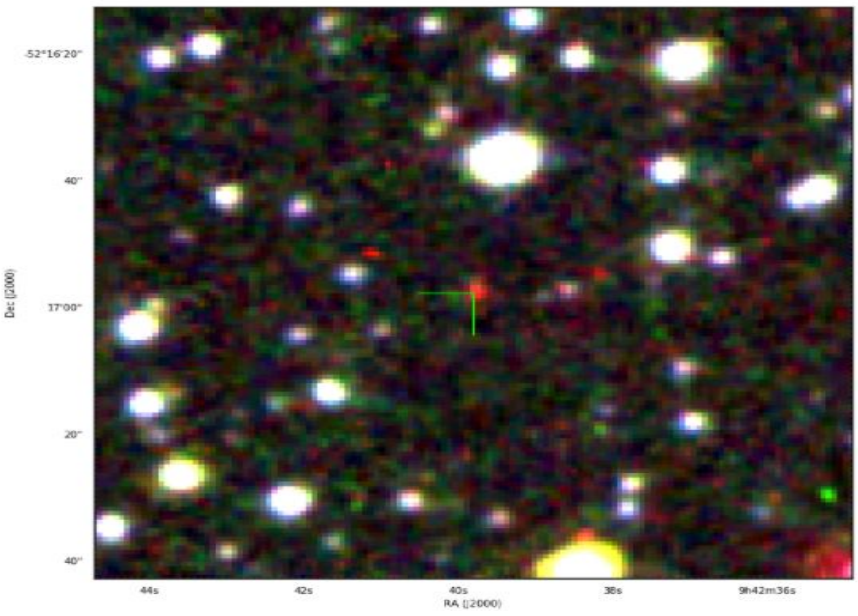
Exposure on object	5 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD119921_A0V
Exposure on ref star	20 x 5.5 s
Ref star Sp. date	4.311/03/2022

Slit position and images

Slit position

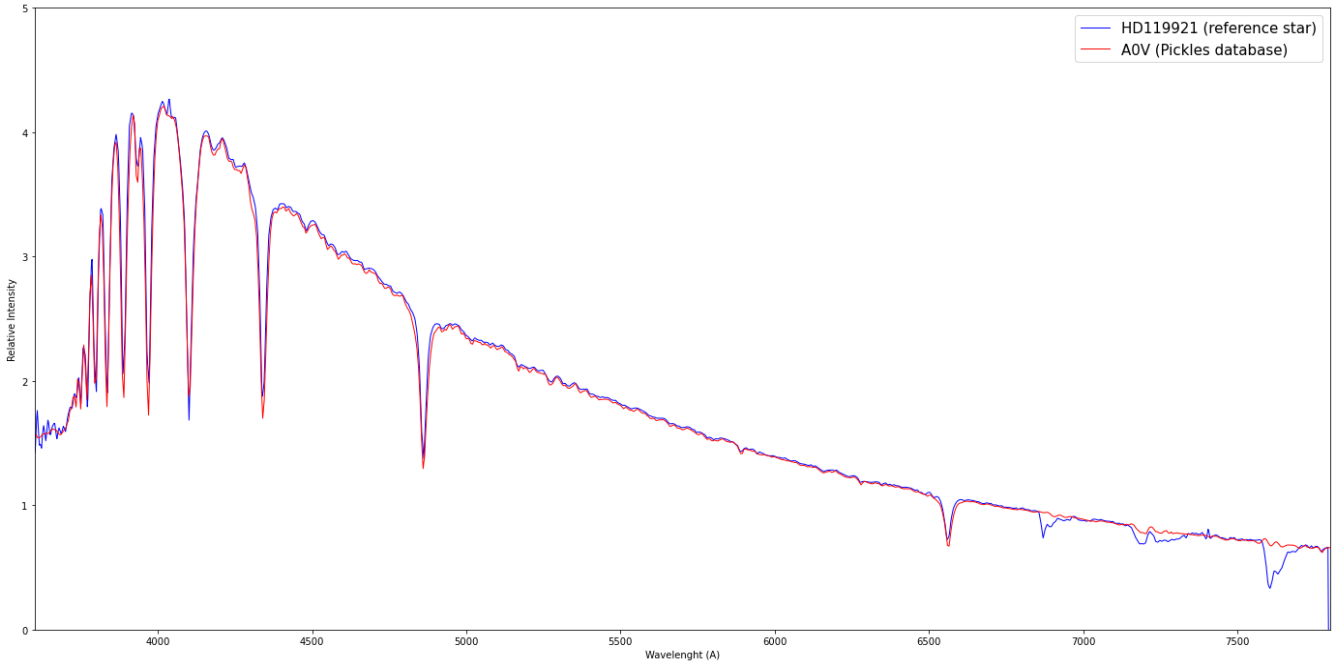


Object picture(s)

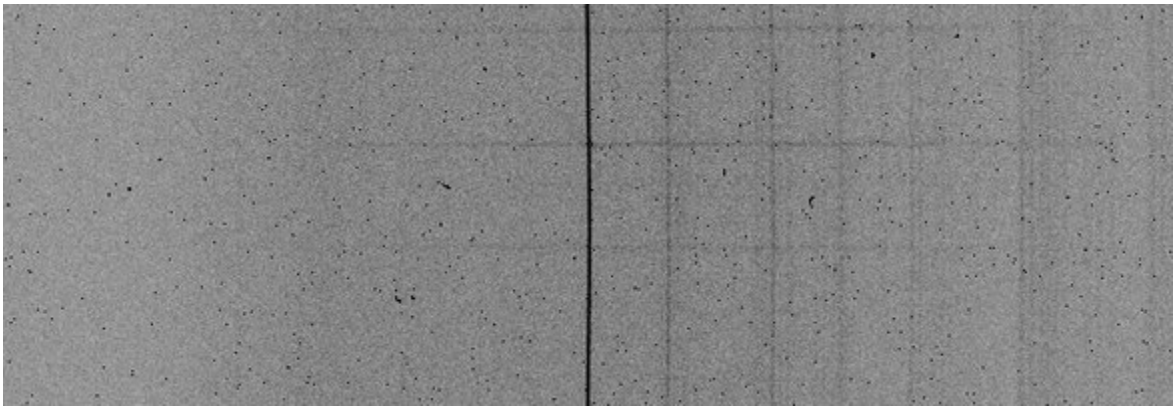


Instrumental Response and 2D Spectrum

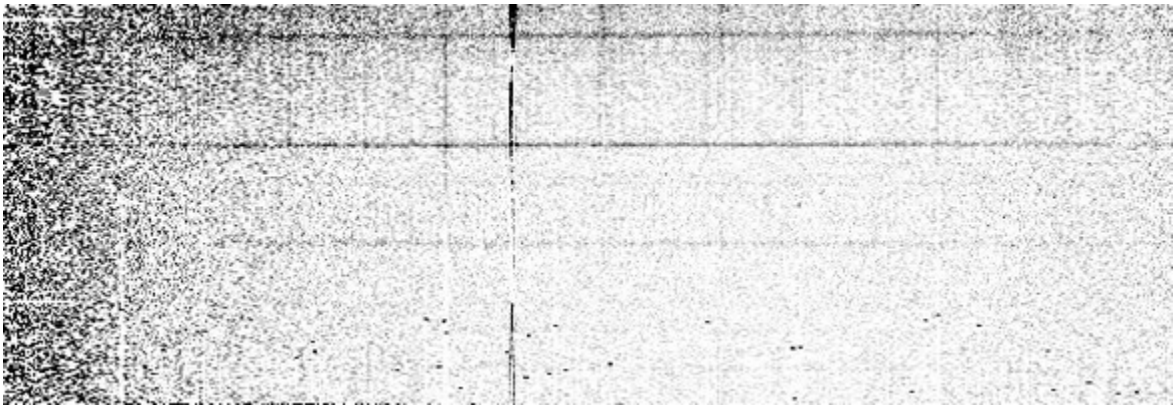
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



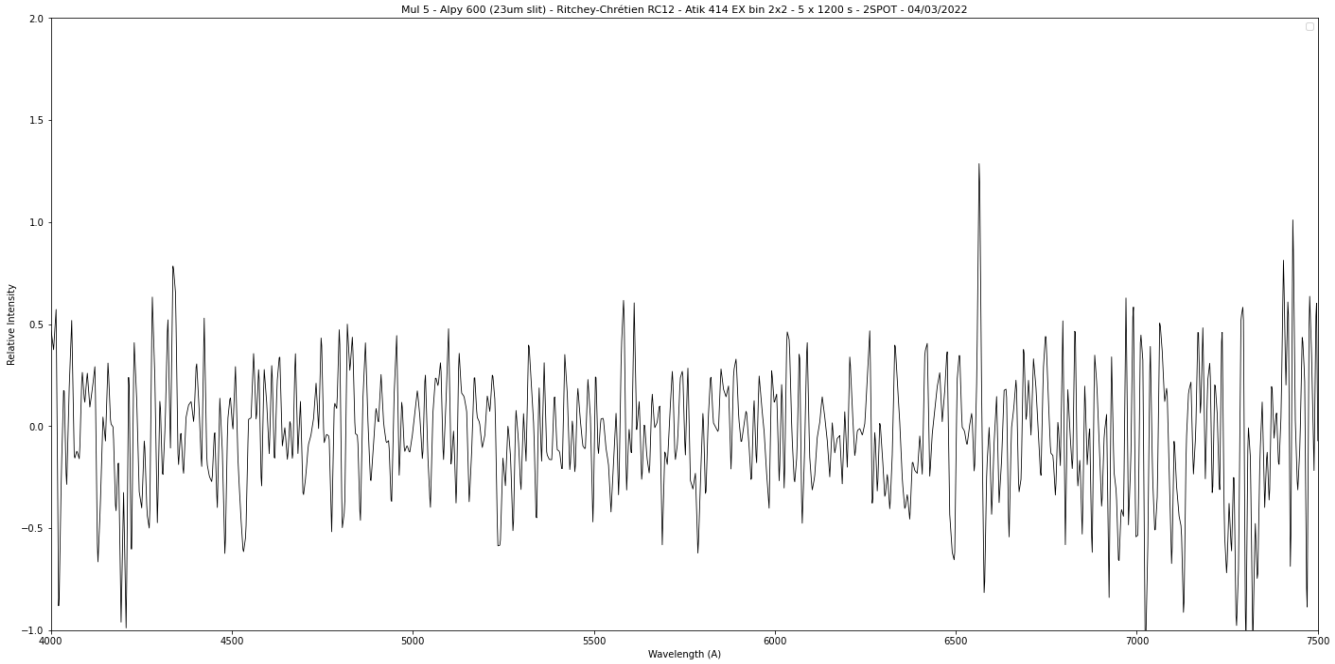
2D Raw spectrum



2D Processed spectrum



Results



Comments

Compact SHS source
Strong WISE source.

Detected lines :
Ha only, nothing in blue.
No continuum detected.
Mul 5 might be a PN suffering high excitinction.