Spectroscopic Record Sheet

Details on acquisitions

Object	Mul Objet 4
Coordinates (J2000)	04:05:24.33 54:01:16.28
Type	PN candidate

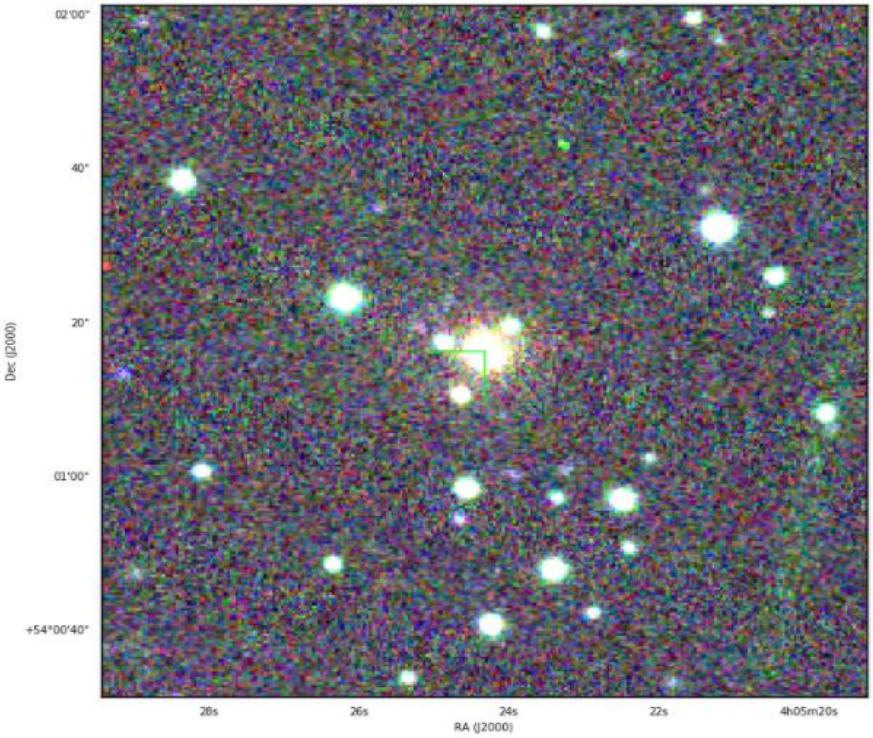
Observation date	18.933/10/2020 (d/m/y)
Meteorological conditions	7°C
Observer	L.Mulato
Location	Cornillon France

Mount	NEQ6
Telescope	Newton Skywatcher 200 mm F/5
Spectrograph	Alpy 600 - 23 µm slit
Resolution (bin 1x1)	~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	ASI290 MM non cooled
Data acquisition Soft	PRISM V10
Data processing Soft	Isis V5.9.3

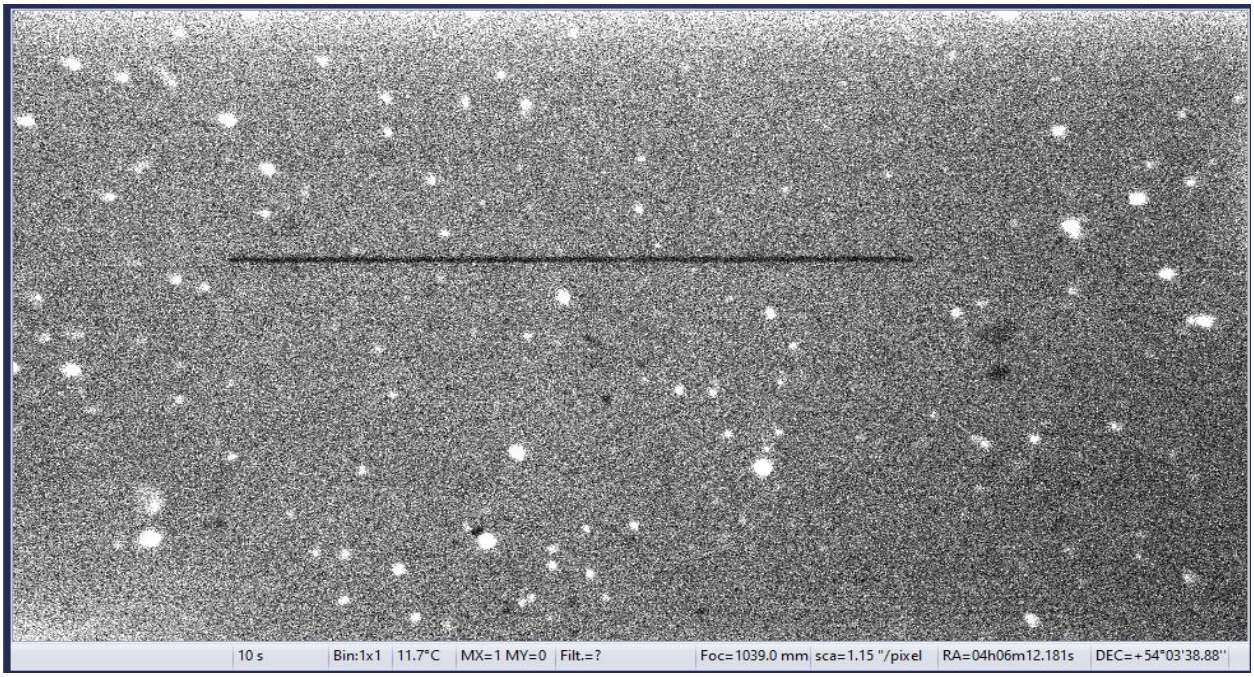
Exposure on object	3 x 1200 s
Master Dark date	27/09/2020 (d/m/y)
Dark Exposure	18 x 1200 s
Dark Temperature	-10 °C
Master Offset date	27/09/2020 (d/m/y)
Master Flat date	18/10/2020 (d/m/y)
Neon-Argon calib. date	19/10/2020 (d/m/y)
Reference star calib.	HD1404_A2V
Exposure on ref star	16 x 6 s
Ref Star Sp. date	19.079/10/2020

Images and slit position

Image IPHAS Colour

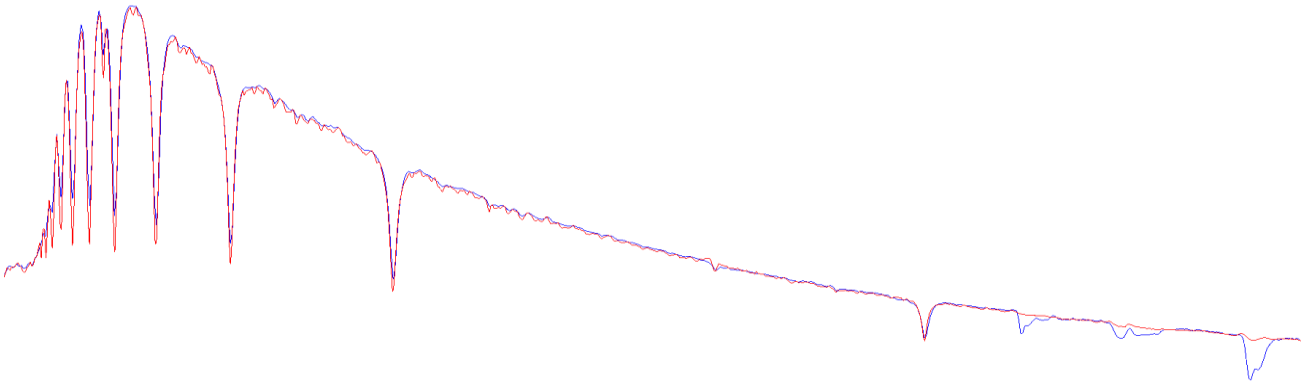


Slit Position Autoguider

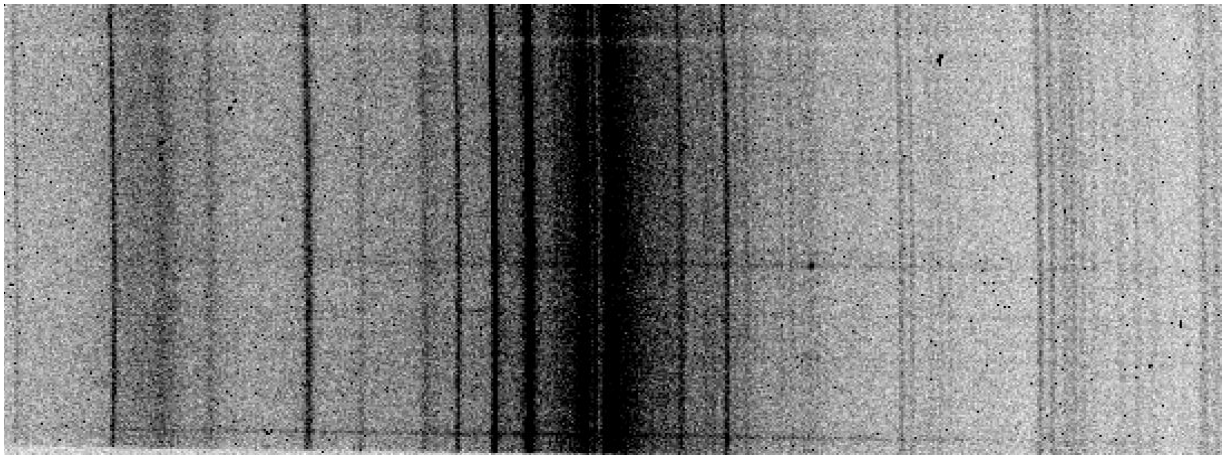


Instrumental Response and 2D Spectrum

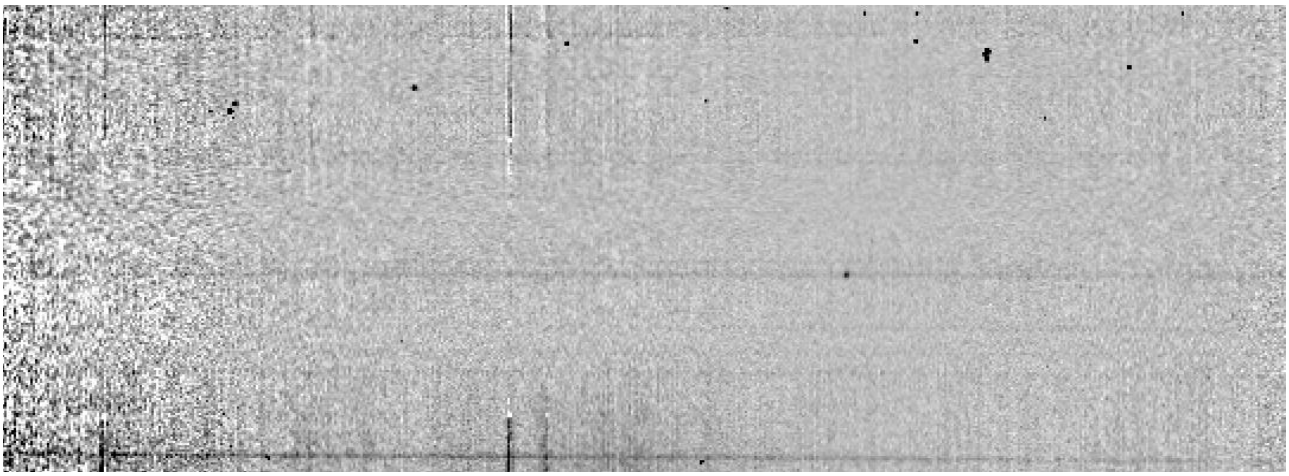
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



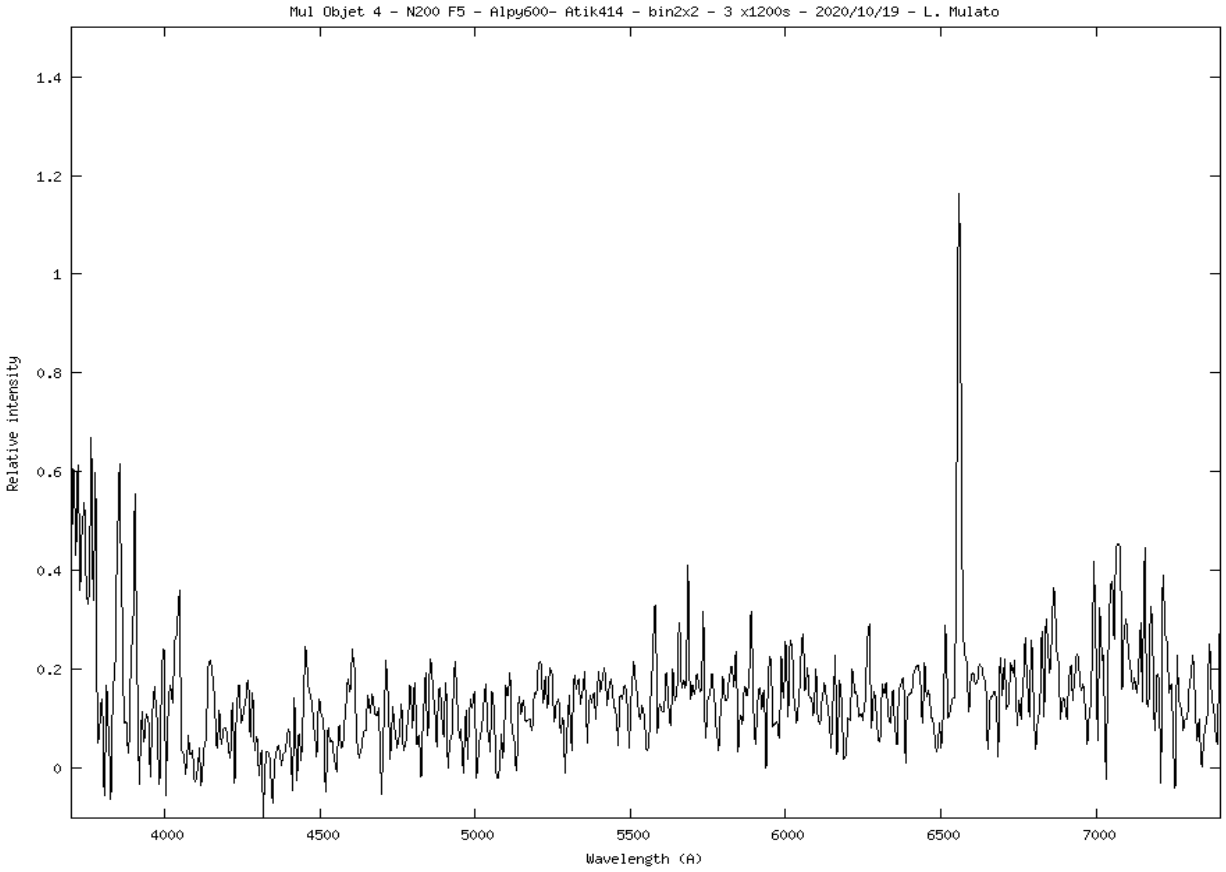
2D Raw spectrum



Processed 2D spectrum



Results



Comments :

Ha emission line + continuuum detected : Mul Objet 4 is an emission line star.