



Spectroscopic Record Sheet



Details on acquisitions

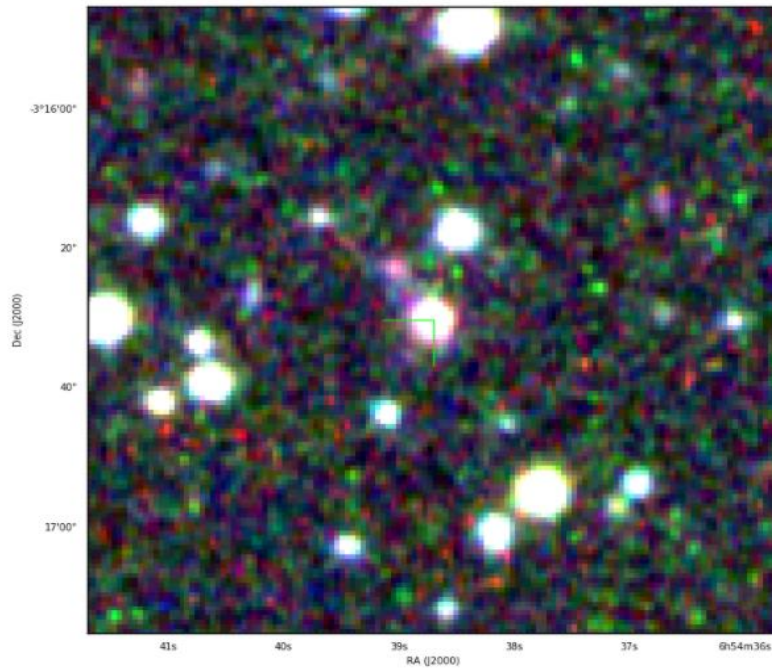
Object	Mul 16
Coordinates (J2000)	06:54:38.70 -3:16:30.30
Type	PN candidate

Observation date	11.185/11/2020 (d/m/y)
Meteorological conditions	7°C
Observer	L.Mulato
Location	Cornillon France

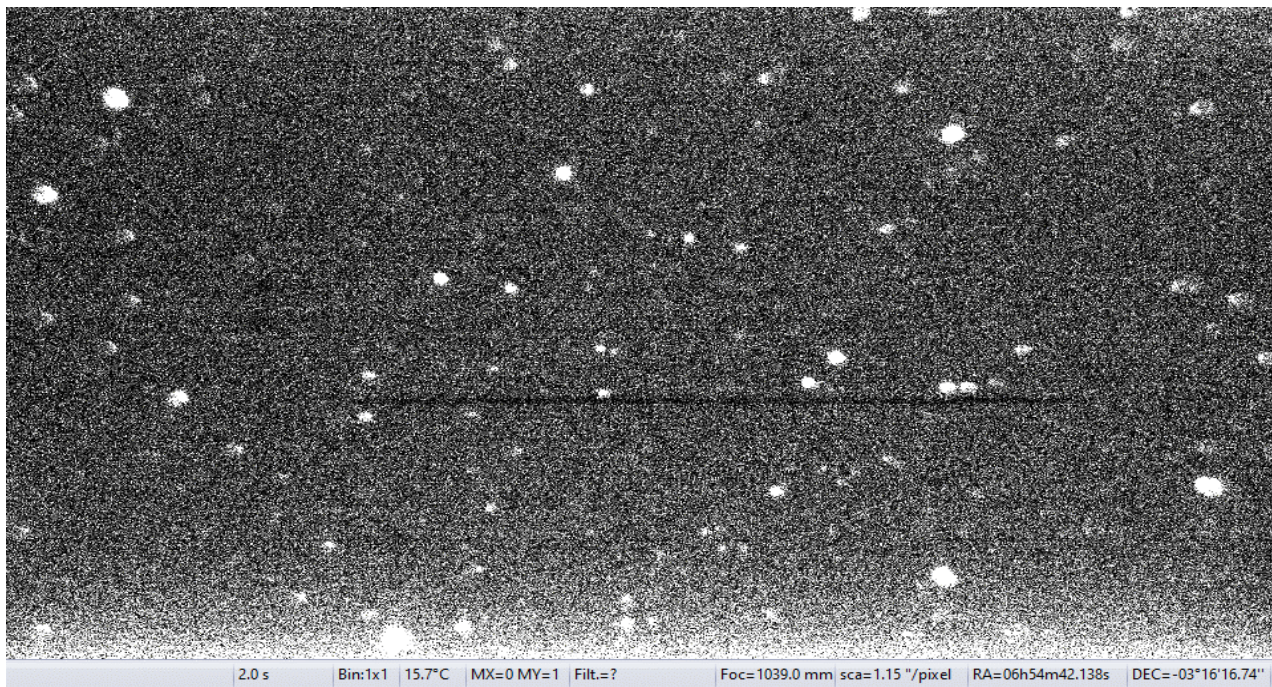
Mount	NEQ6
Telescope	Newton Skywatcher 200 mm F/5
Spectrograph	Alpy 600 - 23 μm slit
Resolution (bin 1x1)	$\sim 1 \text{ \AA}$ at $\lambda 656 \text{ nm}$
Science camera	ATIK 414 EX
Dispersion (bin 1x1)	$\sim 0,3 \text{ nm/pixel}$ at $\lambda 656 \text{ nm}$
Cam Temperature	-10 °C
Binning	2x2
Guiding camera	ASI290 MM non cooled
Data acquisition Soft	PRISM V10
Data processing Soft	Isis V5.9.3

Exposure on object	3	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	11/11/2020		(d/m/y)	
Neon-Argon calib. date	11/11/2020		(d/m/y)	
Reference star calib.	HD61887_A0V			
Exposure on ref star	15	x	10	s
Ref Star Sp. date	11.154/11/2020			

Image SHS



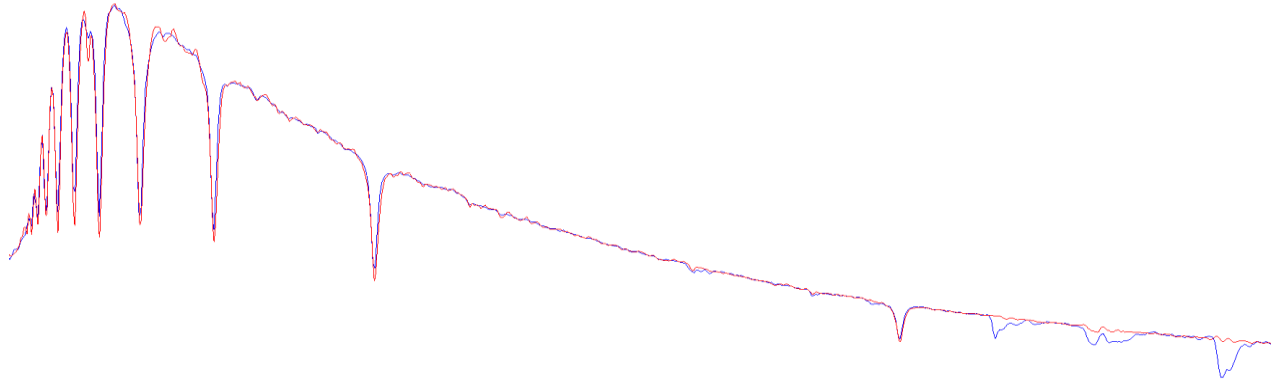
Slit Position Autoguider



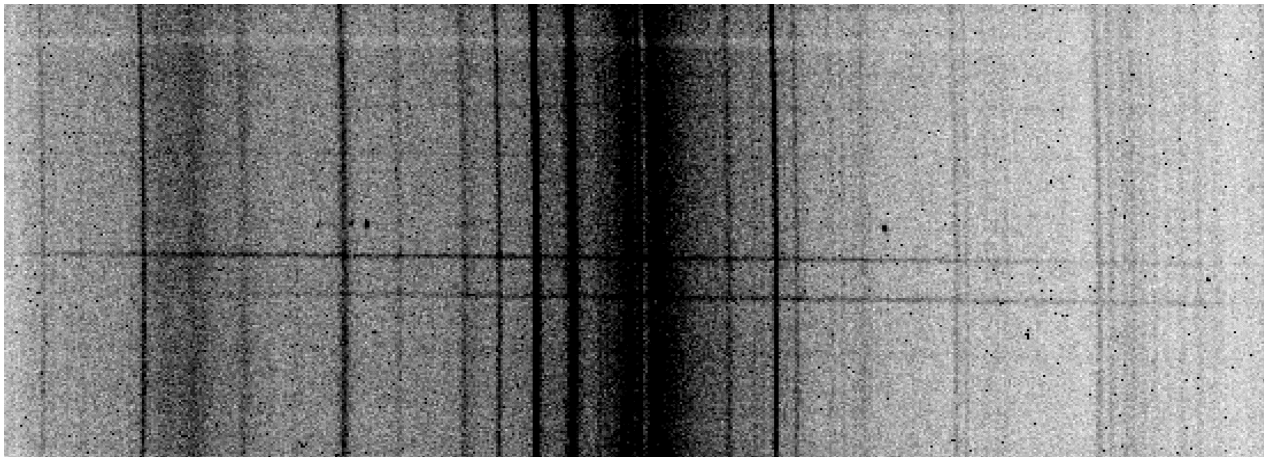


Instrumental Response and 2D Spectrum

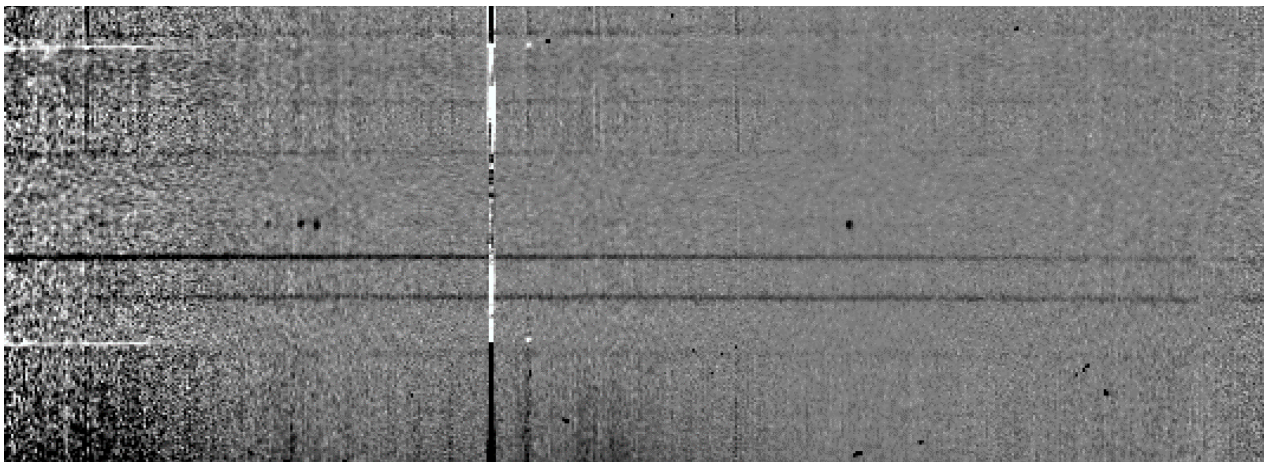
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

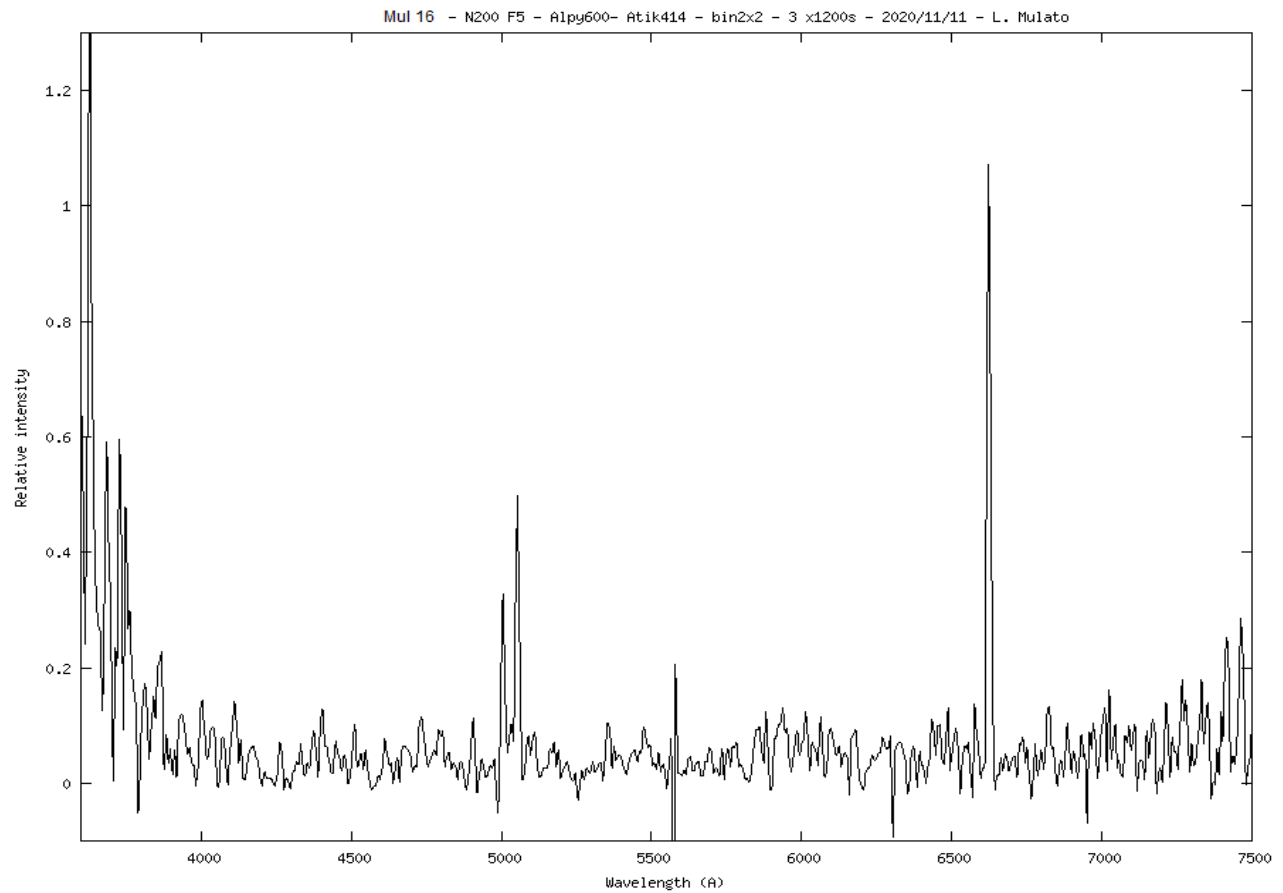


2D Raw spectrum



Processed 2D spectrum





Comments :

Mul 16 is an active galaxy with a radial velocity of ~ 2500 km/s.

Detected lines : [O III] doublet, H-alpha, H-beta.

