Spectroscopic Record Sheet

Details on acquisitions

Object	DeGaPe 77
Coordinates (J2000)	05:35:20.50 -70:13:53.90
Type	/

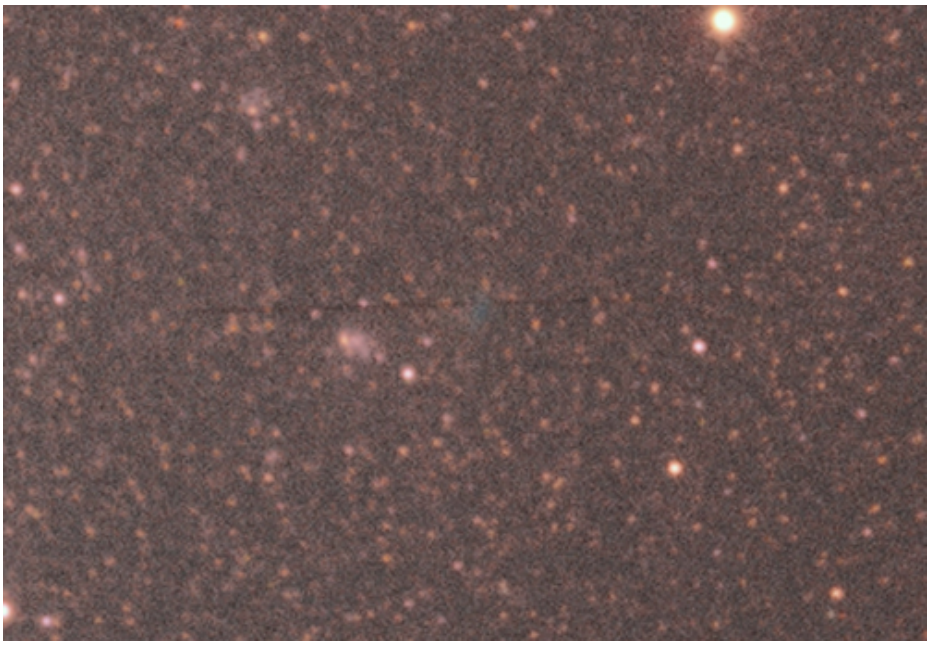
Observation date	8.189/02/2022
Weather conditions	Temp: 12°C - Hum: 40%
Observer	2SPOT
Location	Deep Sky Chile (CL)

Mount	10 Micron GM3000 HPS
Telescope	Ritchey-Chrétien RC12
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1 Å at l656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at l656 nm
Cam temperature	-10°C
Binning	1x1
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.12.911
Data processing soft	ISIS V6.1.1

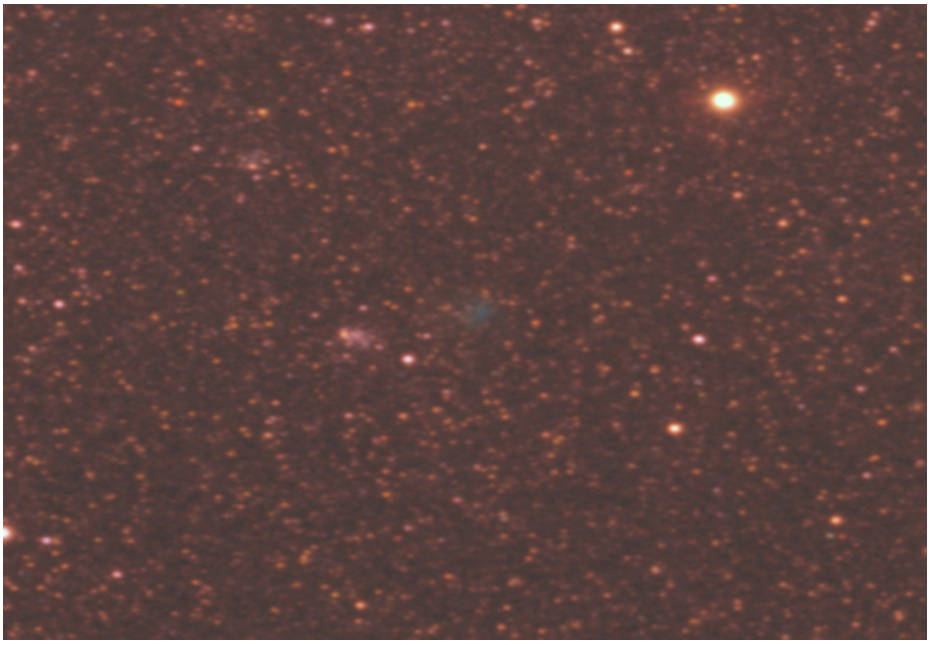
Exposure on object	6 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD42525_A0V
Exposure on ref star	10 x 20 s
Ref star Sp. date	8.248/02/2022

Slit position and images

Slit position

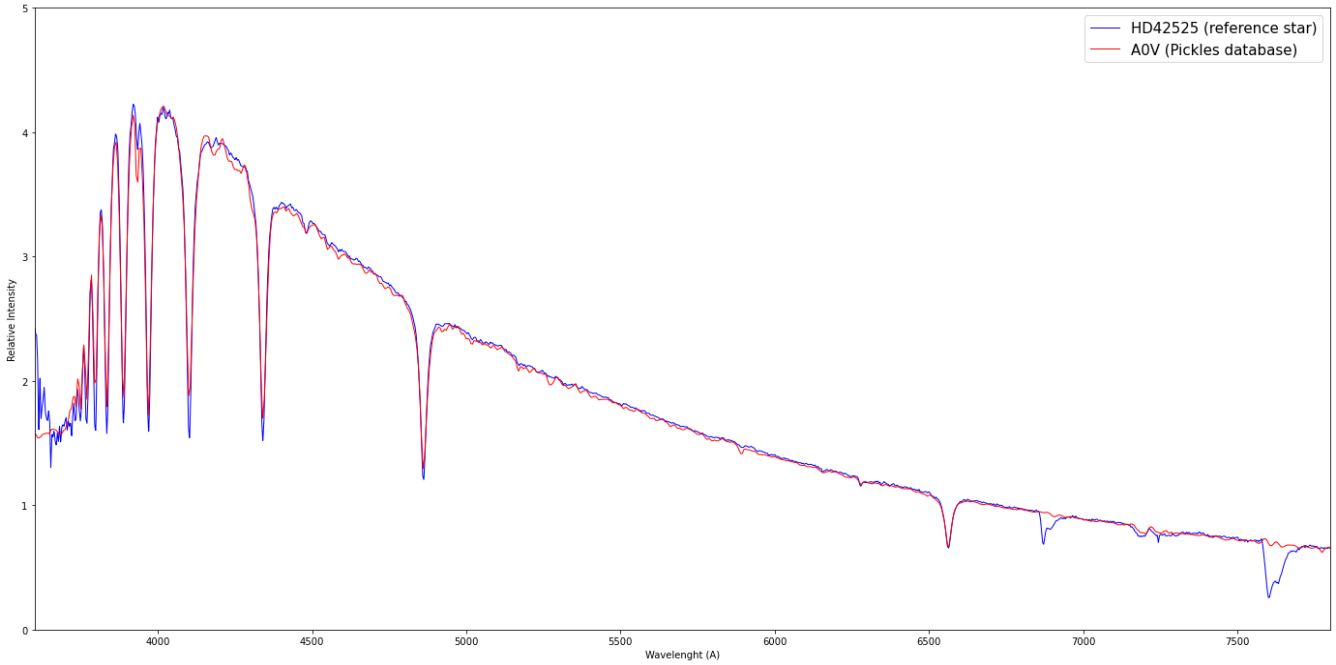


Object picture(s)

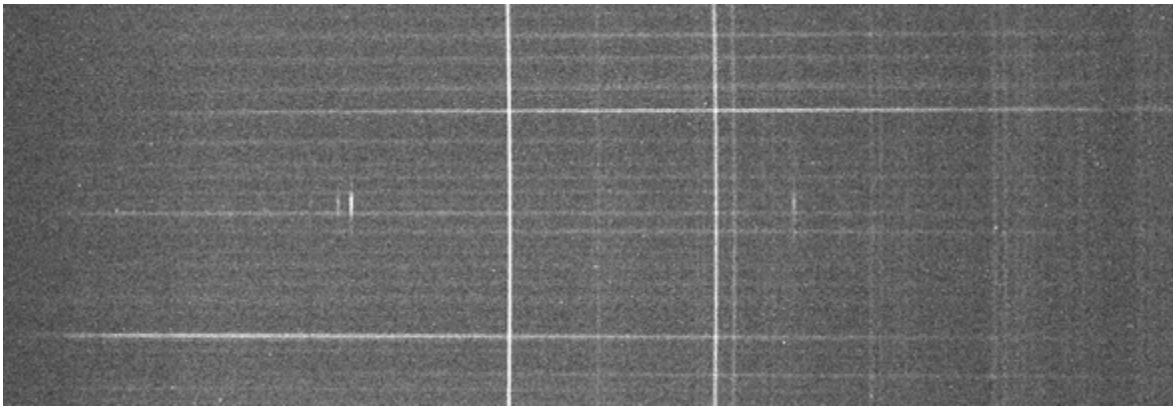


Instrumental Response and 2D Spectrum

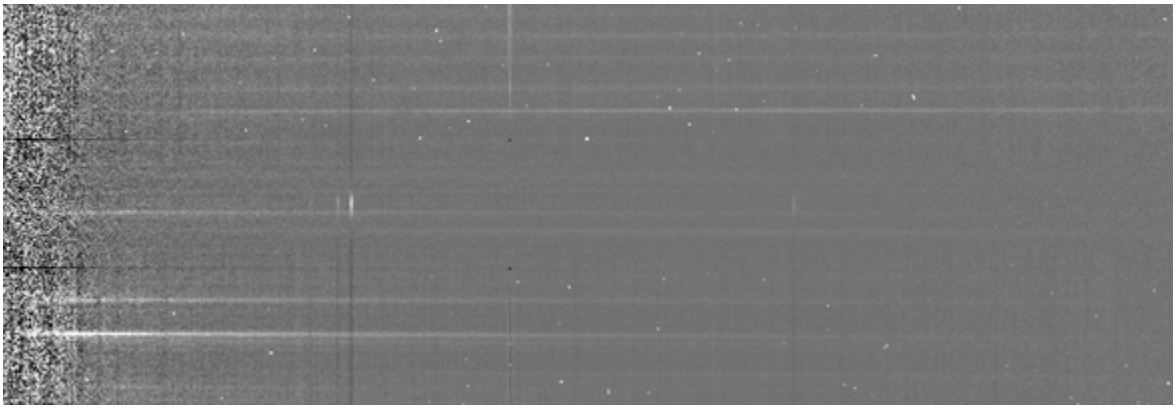
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



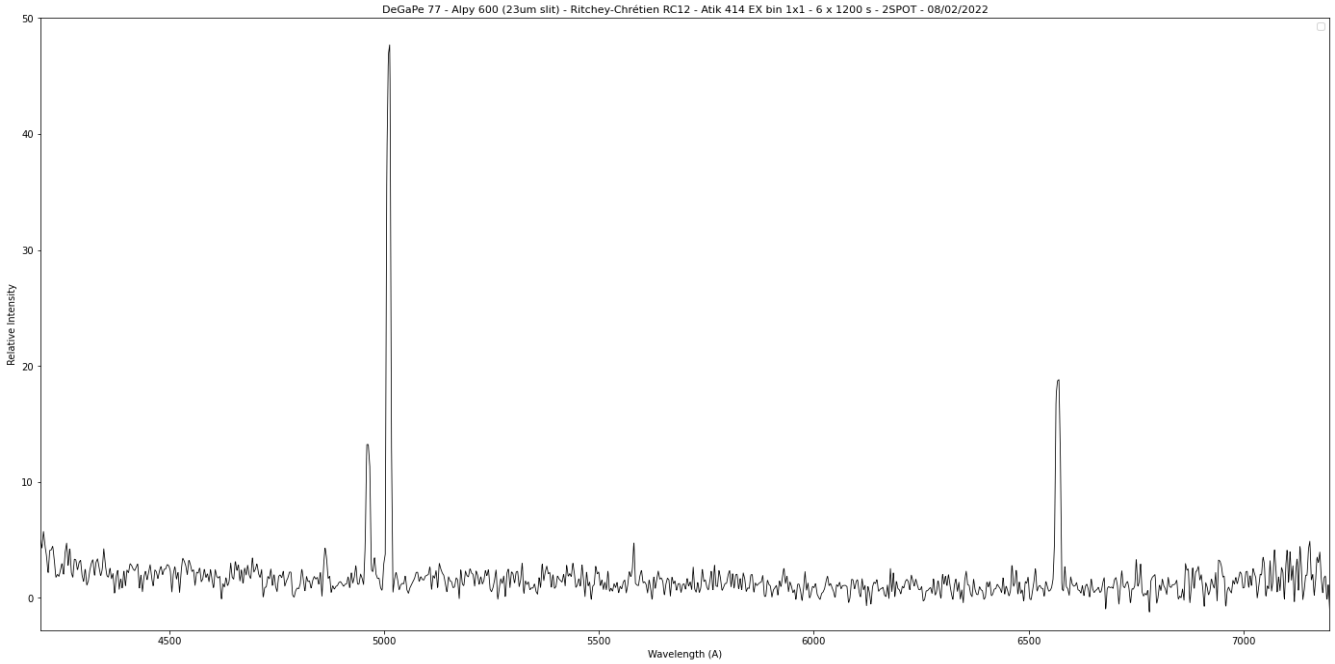
2D Raw spectrum



2D Processed spectrum



Results



Comments

DeGaPe 77 was discovered on a SHO picture of the Large Magellanic Cloud.
Hb, [OIII] and Ha lines are very well visible. Noise is not significant.

A redshift of a few Angstroms is mesurable on all those lines.
It reminds some objects in HASH showing the same redshift like: RP4791, RP4758, RP1401, RP1878 or SMP LMC 31