

Spectroscopic Record Sheet



Details on acquisitions

Object Pi 1

Coordinates (J2000) 01:26:40.01 -74:10:15.60

Type Possible PN

Observation date 16.111/12/2023

Weather conditions

Observer 2SPOT

Location Deep Sky Chile (CL)

Mount 10 Micron GM3000 HPS

Telescope Newton 300mm F/4
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 v11.2.3.21
Data processing soft ISIS V6.1.1

Exposure on object 7 x 1200 s

Master Dark Corrected

Master Flat Corrected

Master Officet

Master Offset Corrected
Neon-Argon calibration Corrected

Reference star calib. HD15008_A3V Exposure on ref star 14 x 0.8 s

Ref star Sp. date 16.171/12/2023

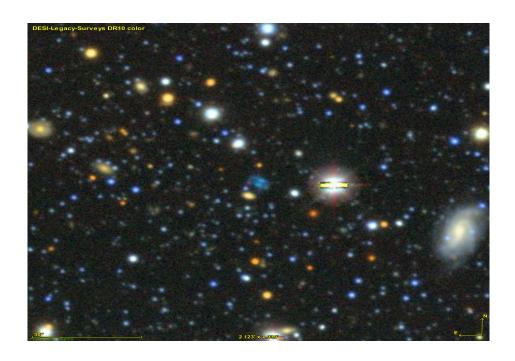


Slit position and images

Slit position

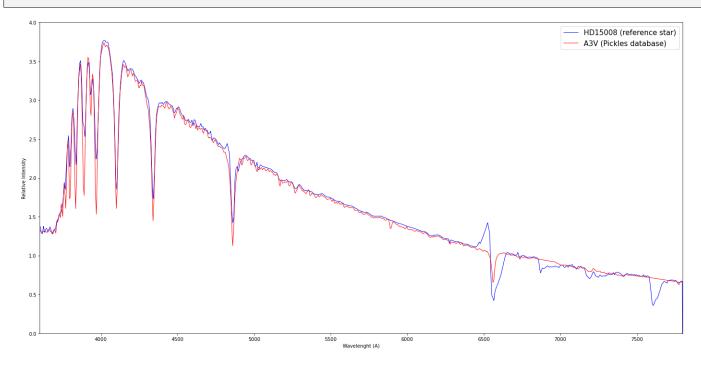


Object picture(s)

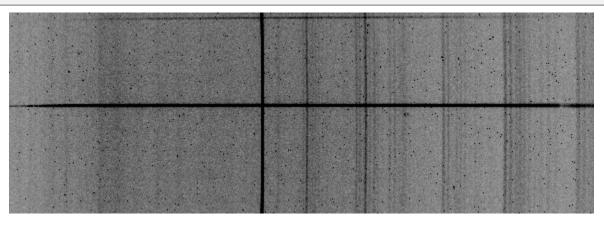


Instrumental Response and 2D Spectra

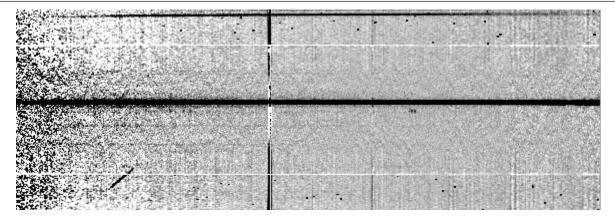
Instrumental response (red = theoritical ref star spectrum; blue = acquired ref star spectrum with instrumental response correction applied)



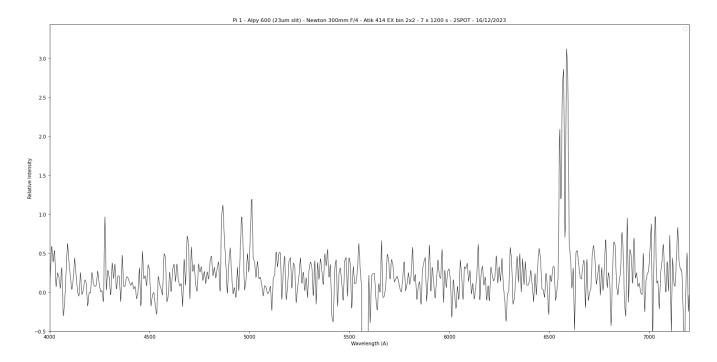
2D Raw spectrum



2D Processed spectrum



Results



Comments

Hbeta, [OIII], Halpha and [NII] lines detected.

Strong [NII] line.

The [OIII] line ratio could not be maintained after processing.

Pi 1 is certainly a true PN