

Spectral line identification for Echelle spectra of YFOOSC at Lijiang 2.4m telescope

Created by Jujia Zhang
jujia@ynao.ac.cn

Tips: the continuum of FeAr lamb is very weak, you can extract it via the spectra of star (1. Combine the image of lamb's and star's spectra and then extract them together. 2. Minus the spectra of star from the combined spectra.)

FeAr lamb is suggested for the wavelength calibration, esp., at the blue part, since the line of Helium+Neon is rare at this part.

For G10+E9 model, the explosion time of FeAr lamb is about 600s and that of HeNe is about 120s.

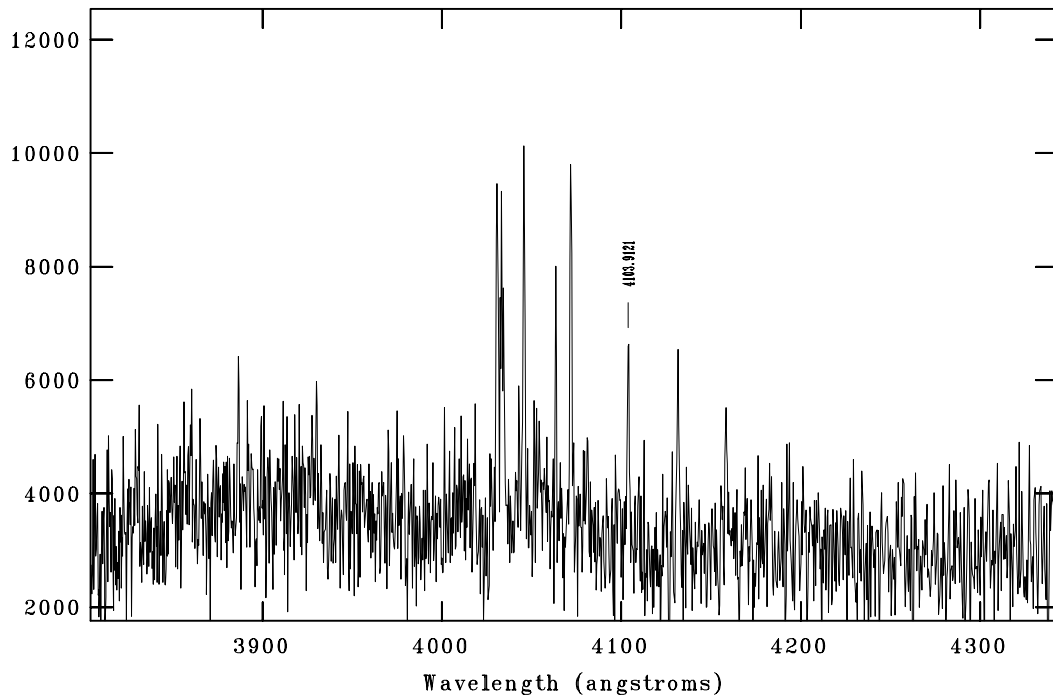
The identification of FeAr and HeNe of G10+E9+slit0.8 of YFOOSC are enclosed.

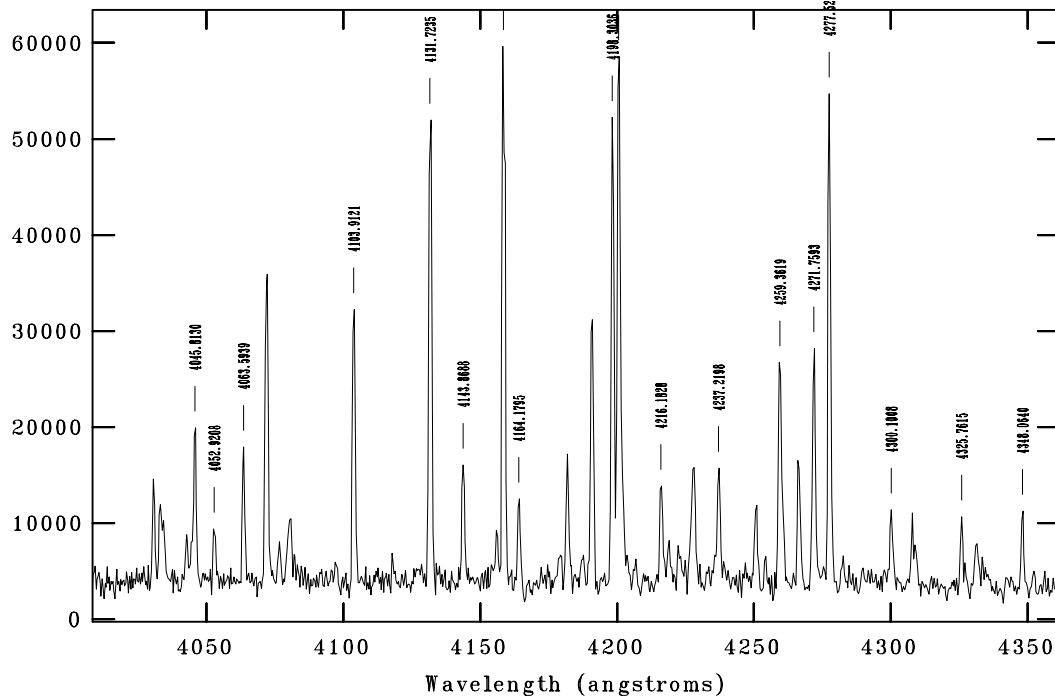
Spectral line identification of FeAr lamp for
YFOSC Echelle model of LiJiang 2.4m telescope
In the case of G10+E9+slit0.8*5.4

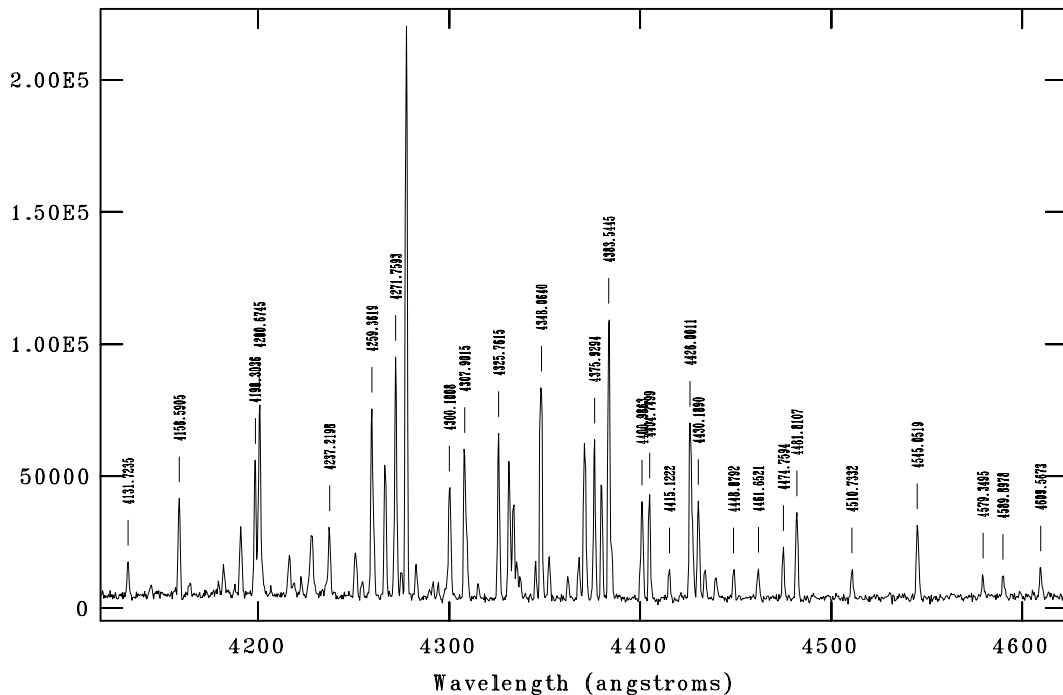
Created by Jujia Zhang
jujia@ynao.ac.cn

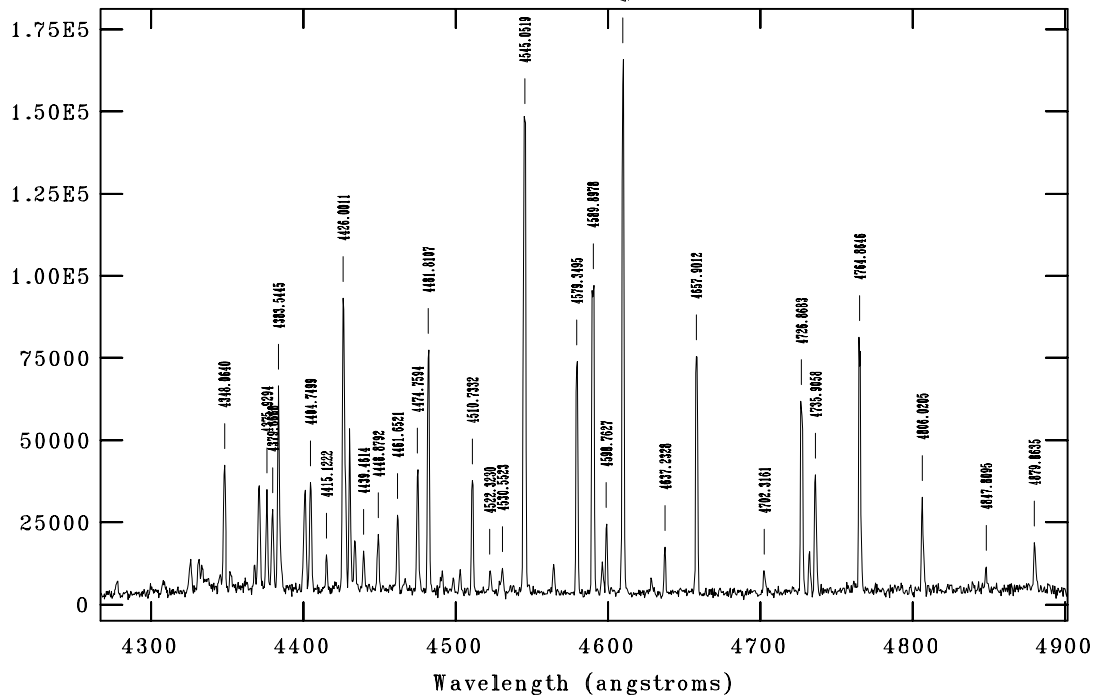
Noted: the spectra of each order are zoomed vertically and horizontally for better display.

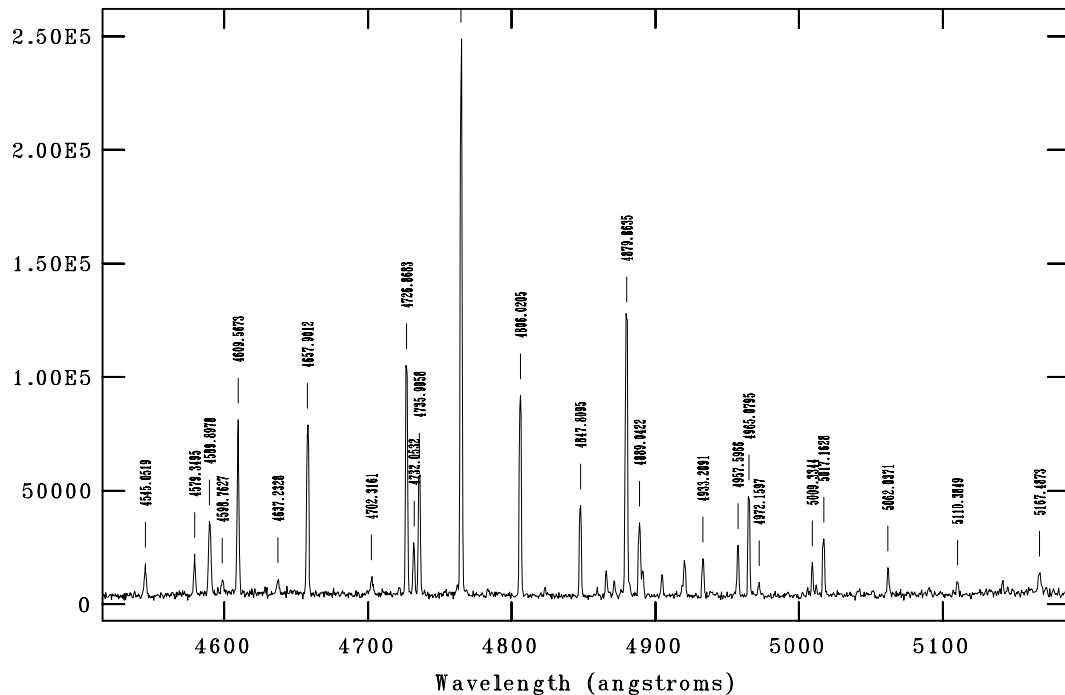
NOAO/IRAF V2.14.1 juja@ubuntu Sun 01:41:54 05-Nov-2017
Aperture 1, Image line 1, Order 18
ecidentify apFeAr: FeAr_slit0.8+G10+E9

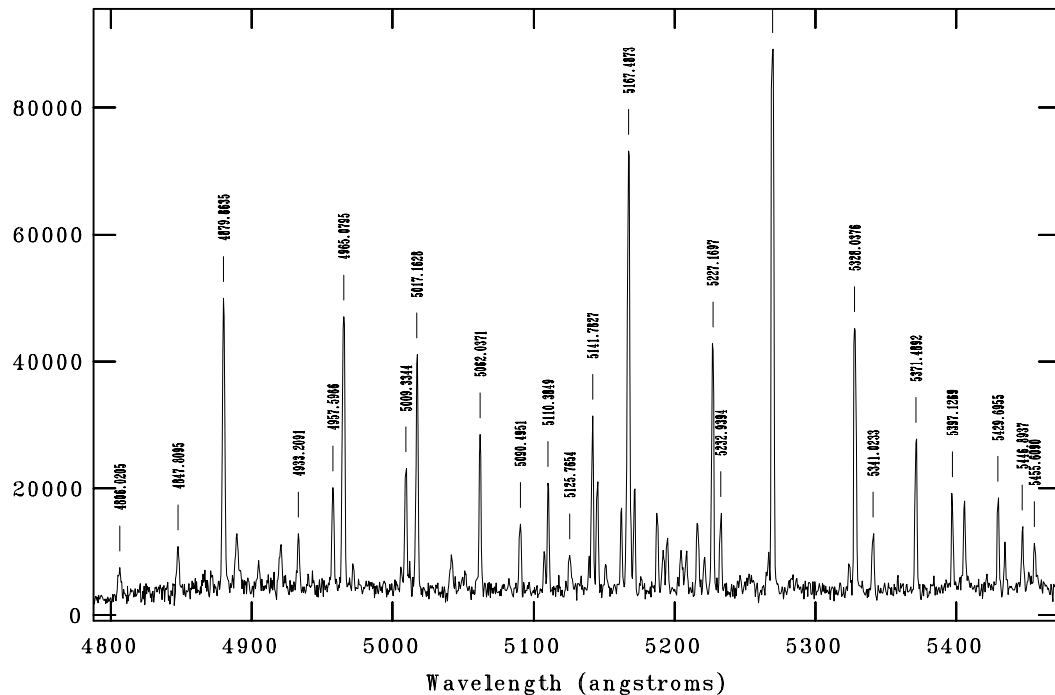


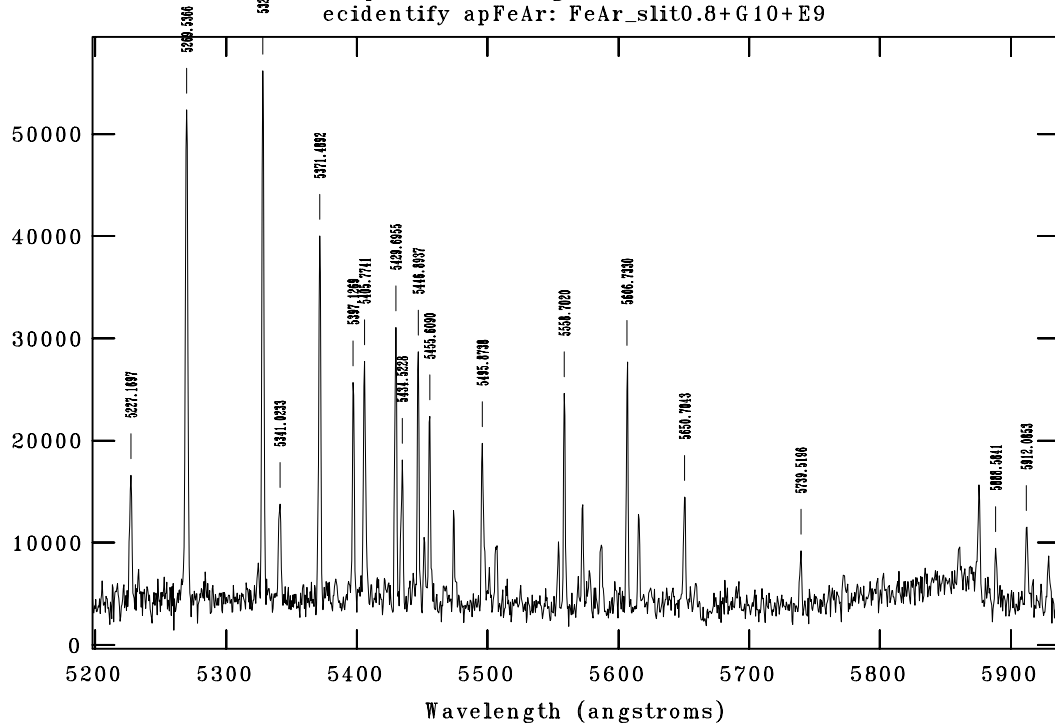


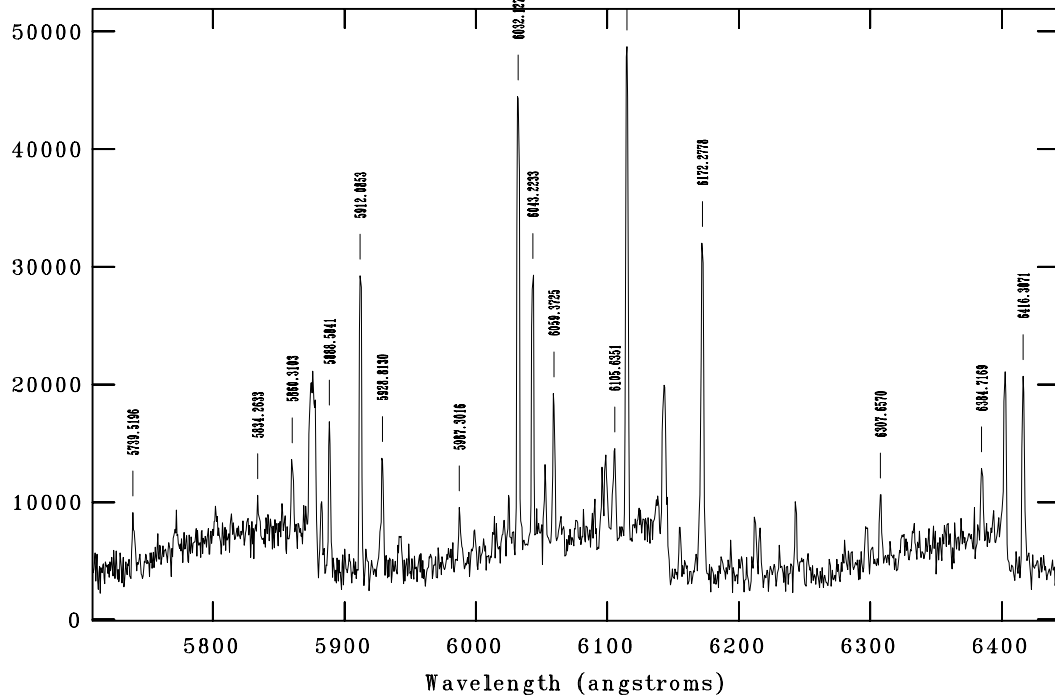


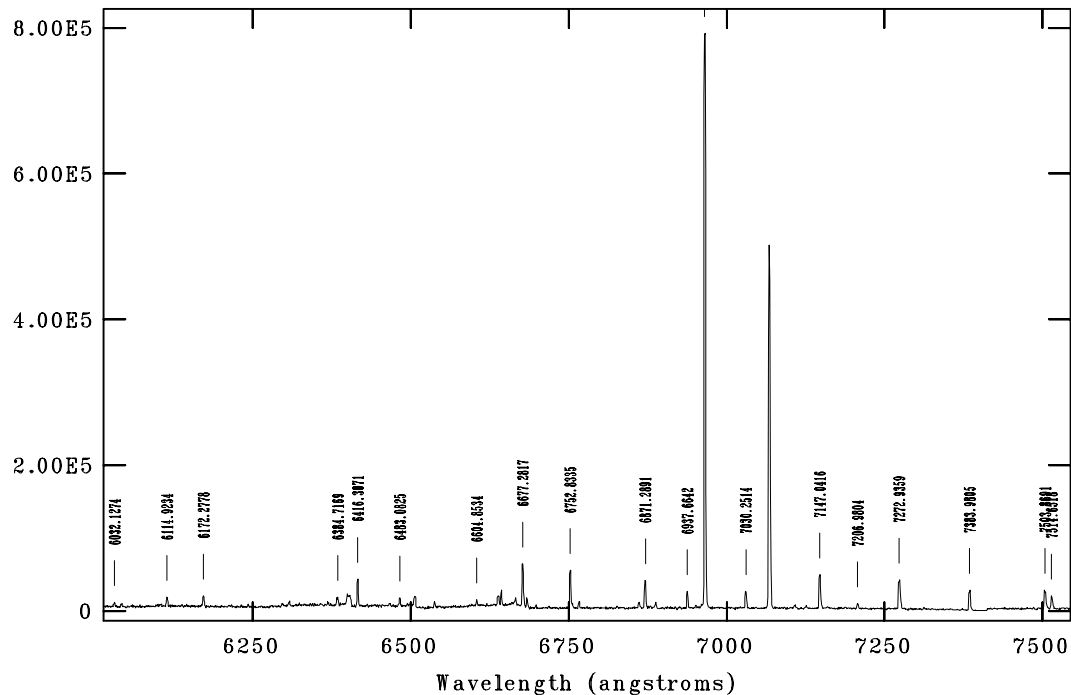


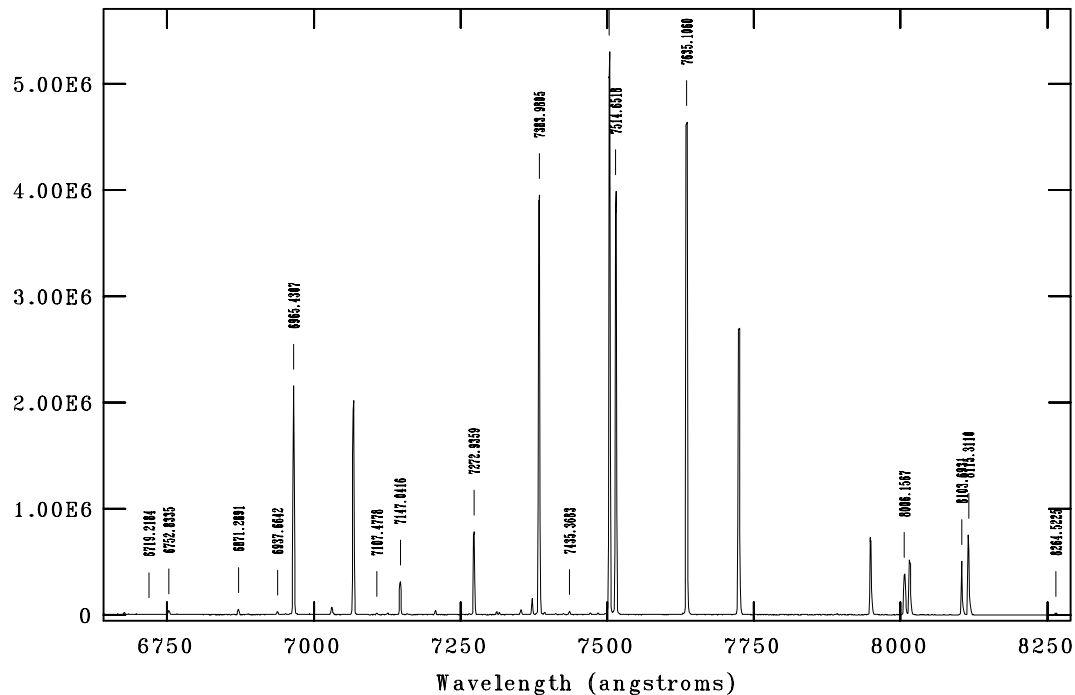




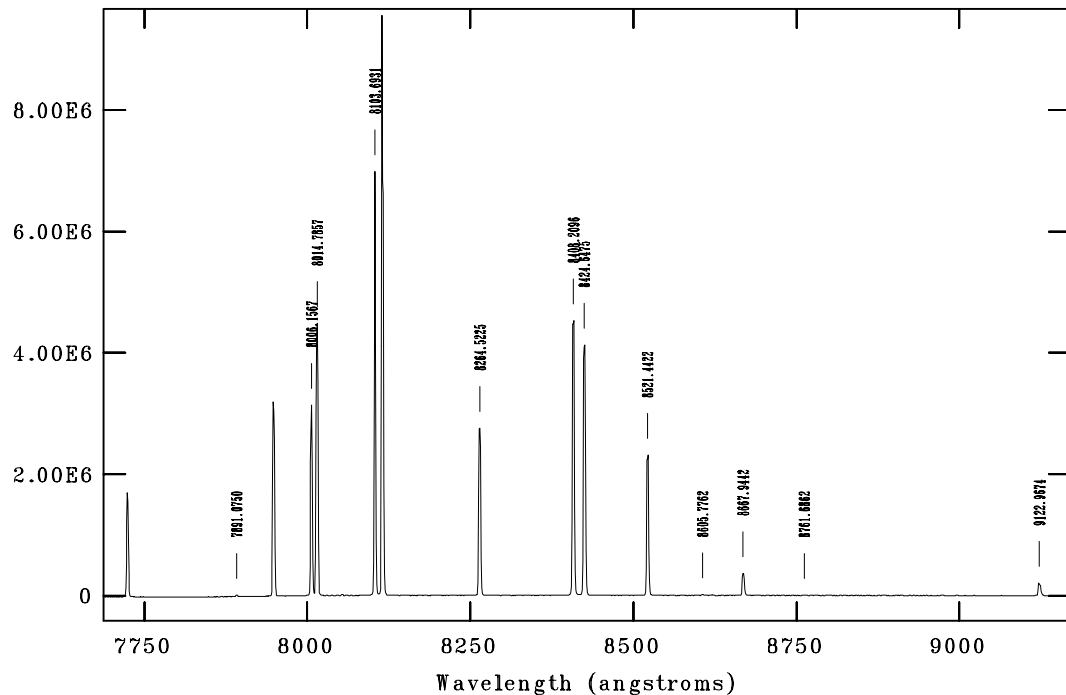


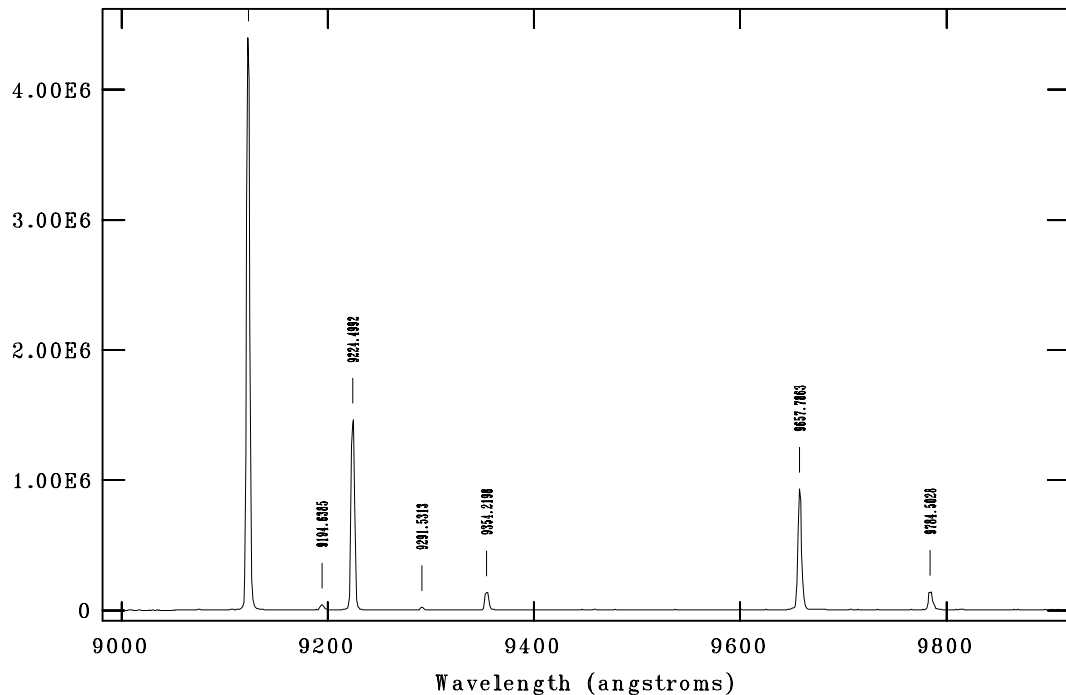




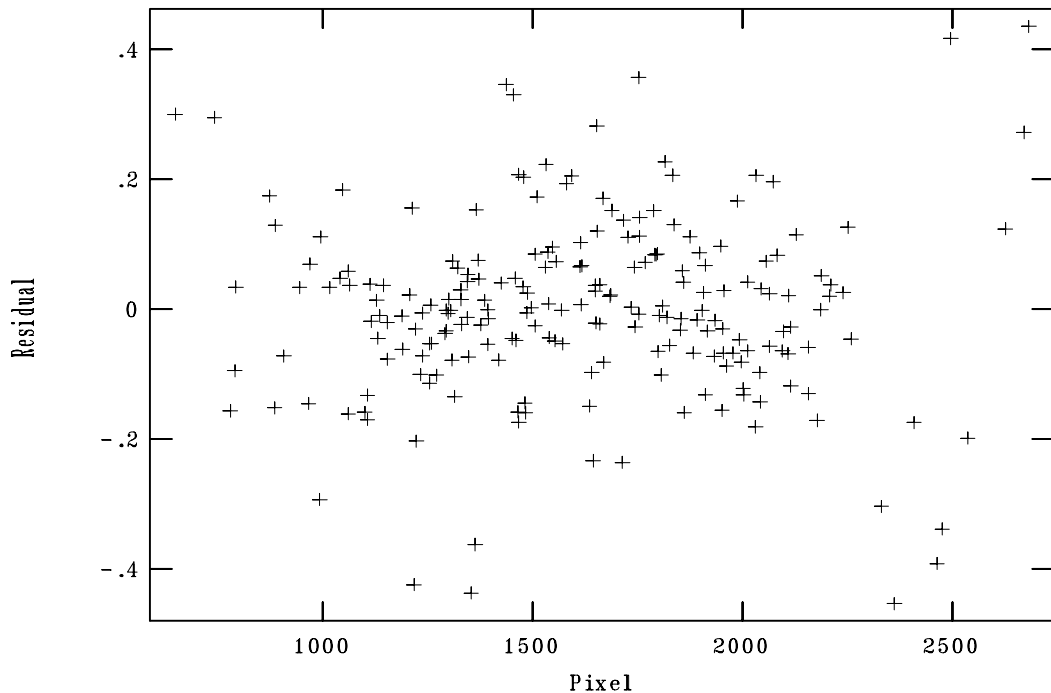


NOAO/IRAF V254.1 jujia@ubuntu Sun 01:48:56 05-Nov-2017
Aperture 11, Image line 11, Order 8
ecidentify apFeAr: FeAr_slit0.8+G10+E9





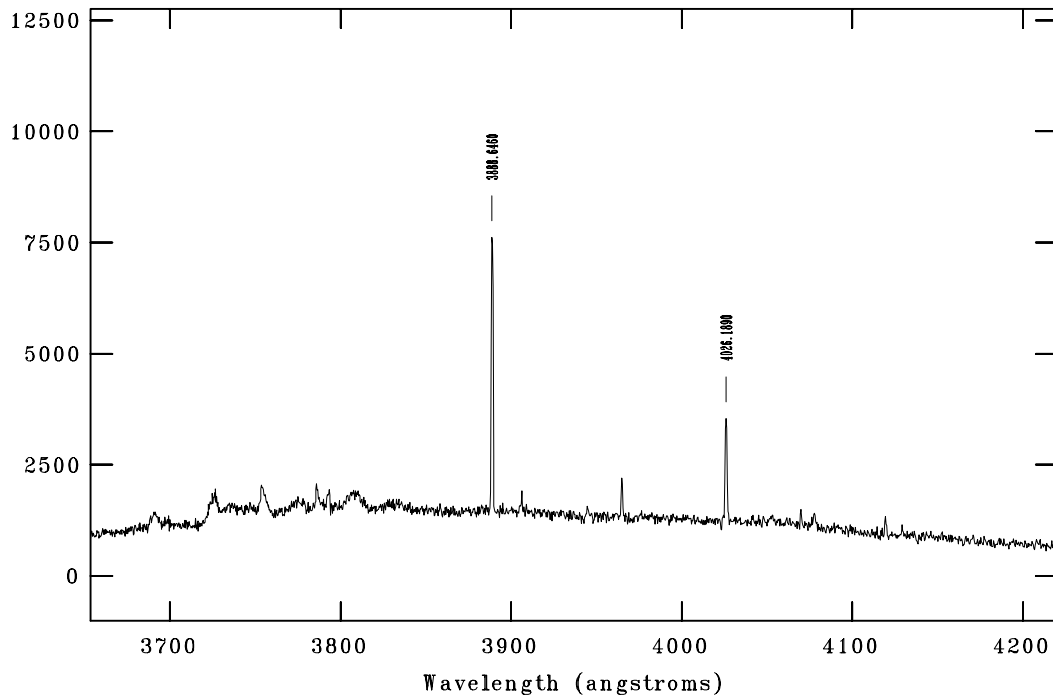
NOAO/IRAF V2.14.1 jujia@ubuntu Sun 01:49:16 05-Nov-2017
Function=chebyshev, xorder=4, yorder=4, slope=-1, offset=19, rms=0.1391
Echelle Dispersion Function Fitting



Spectral line identification of HeNe lamp for
YFOSC Echelle model of LiJiang 2.4m telescope
In the case of G10+E9+slit0.8*5.4

Created by Jujia Zhang
jujia@ynao.ac.cn

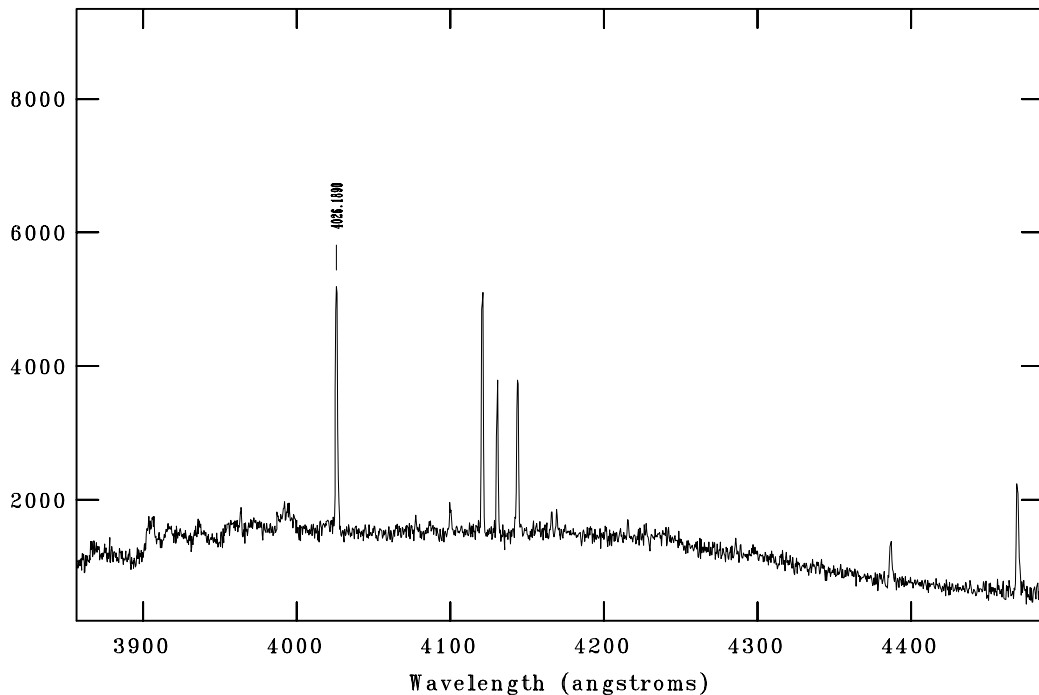
Noted: the spectra of each order are zoomed vertically and horizontally for better display.

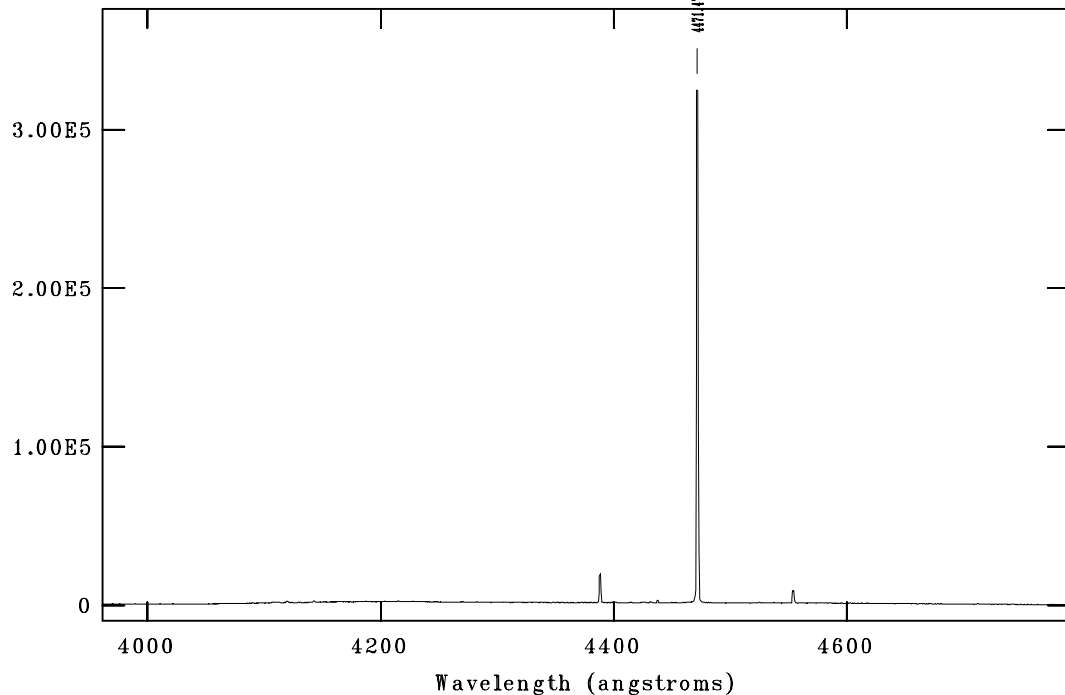


NOAO/IRAF V2.14.1 jujia@ubuntu Sun 03:03:41 05-Nov-2017

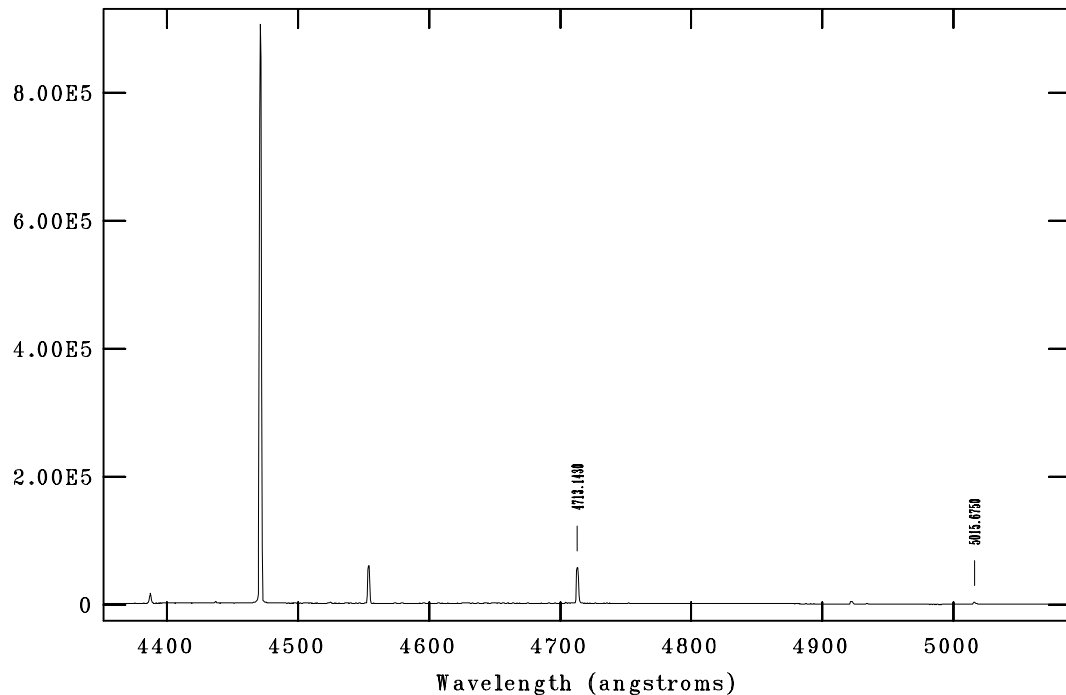
Aperture 2, Image line 2, Order 17

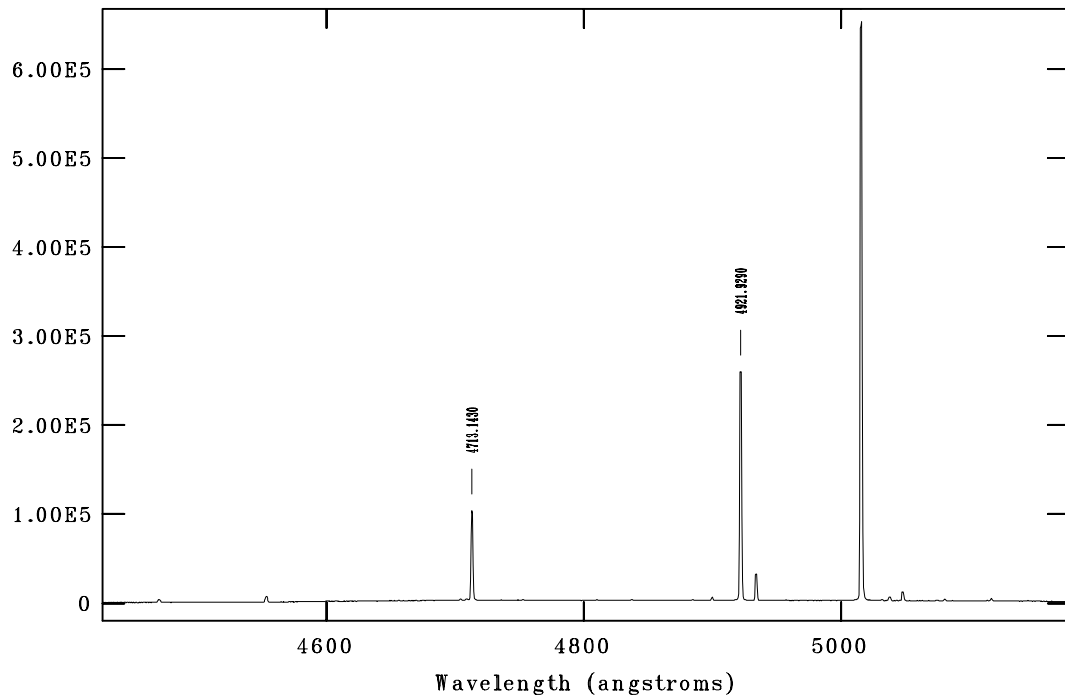
ecidentify apNHd: Ne+He_slit0.8+G10+E9

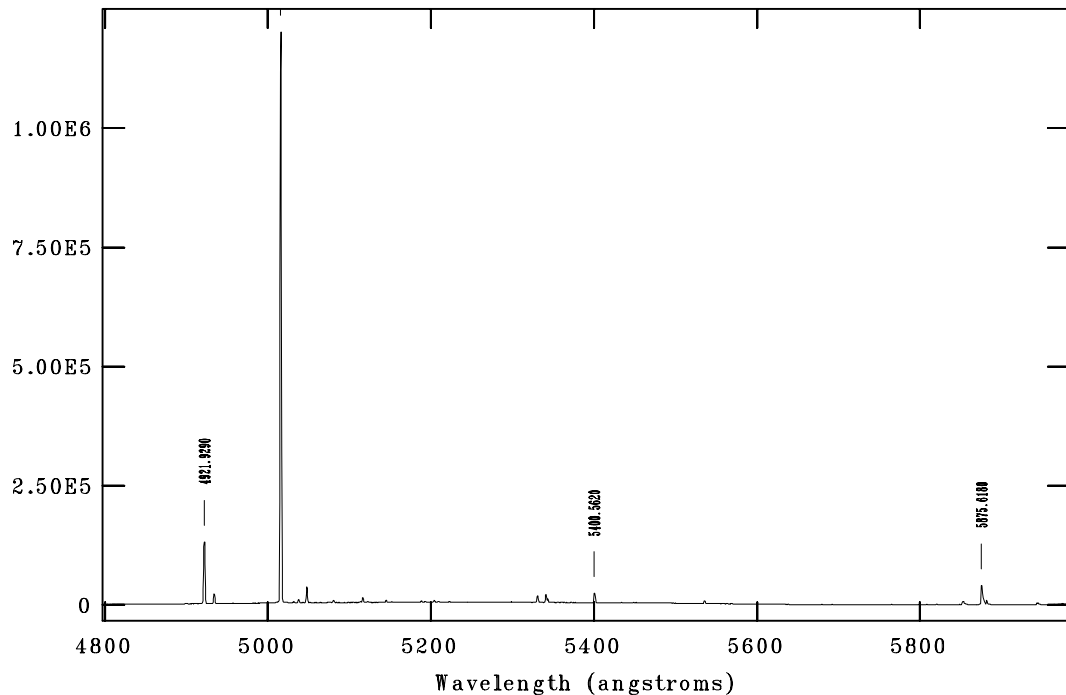


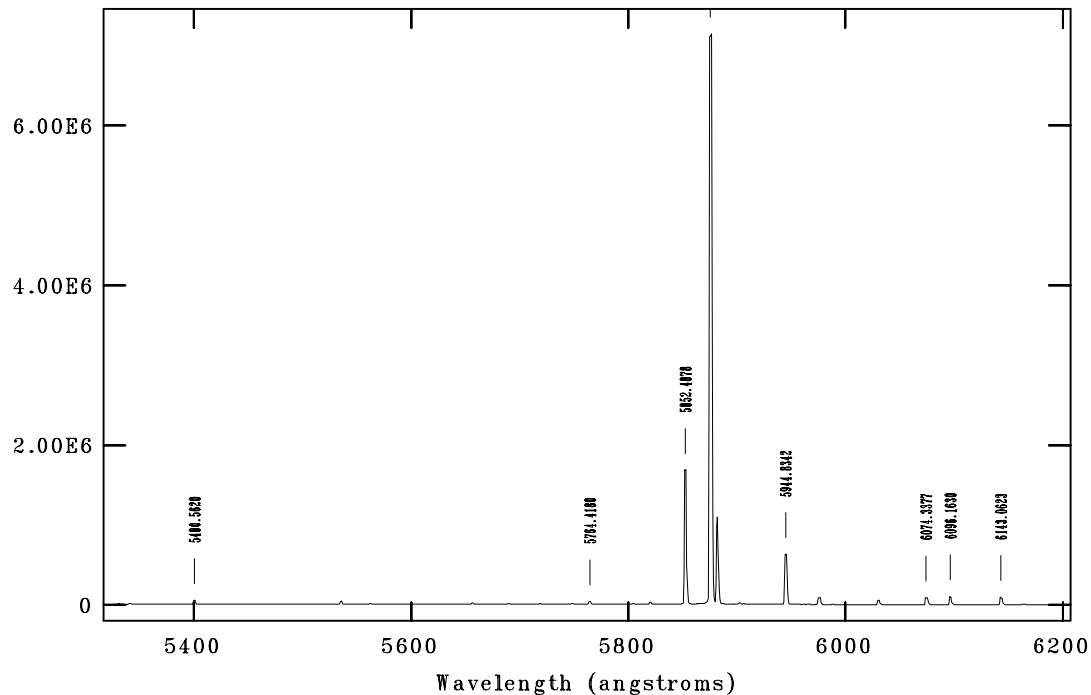


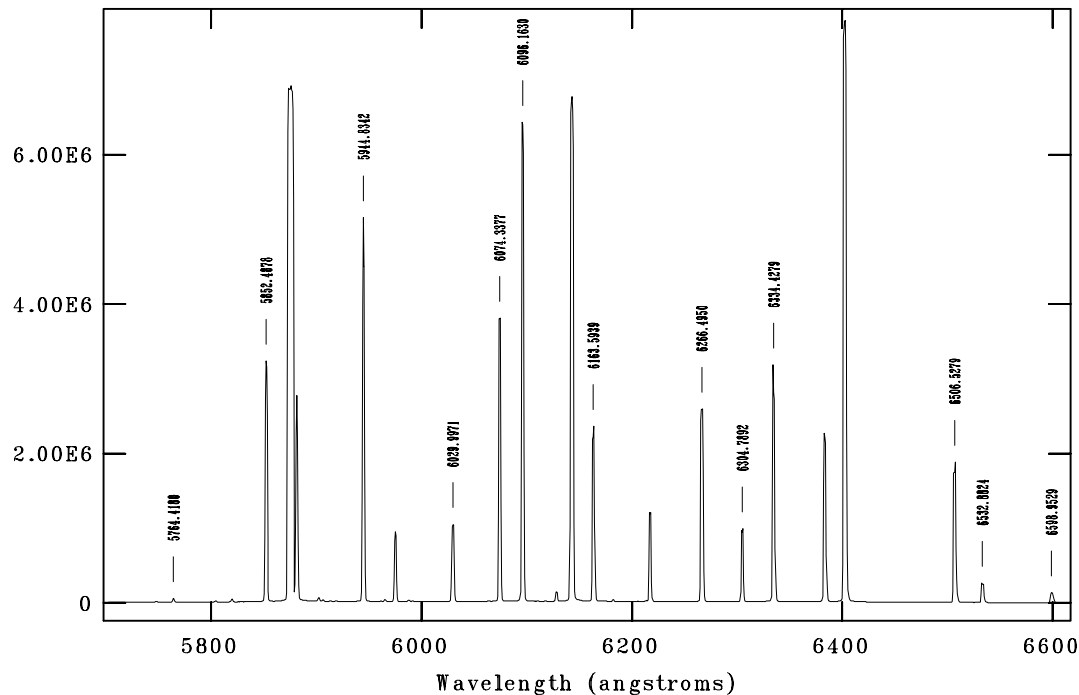
NOAO/IRAF V2.14.1 jujia@ubuntu Sun 03:04:27 05-Nov-2017
Aperture 4, Image line 4, Order 15
ecidentify apNHd: Ne+He_slit0.8+G10+E9

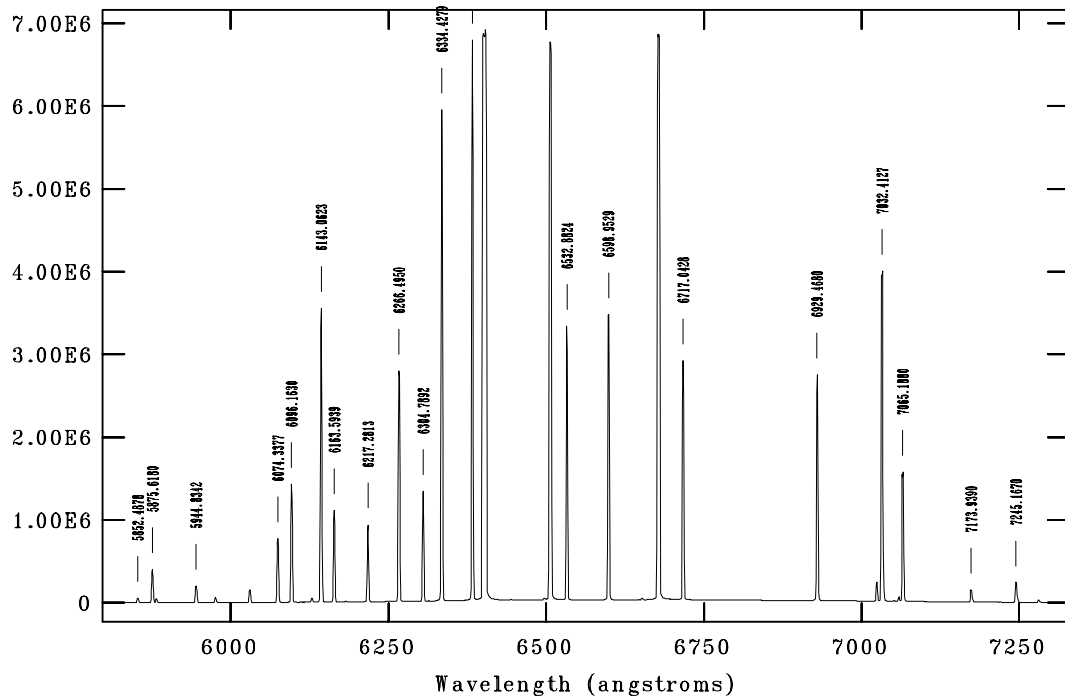


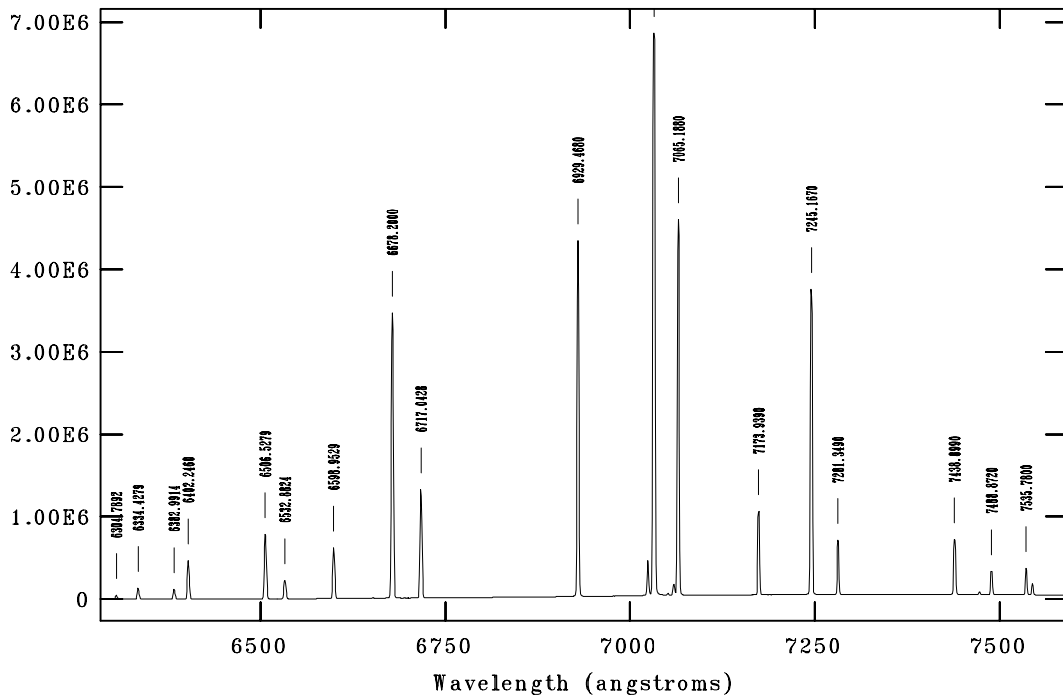


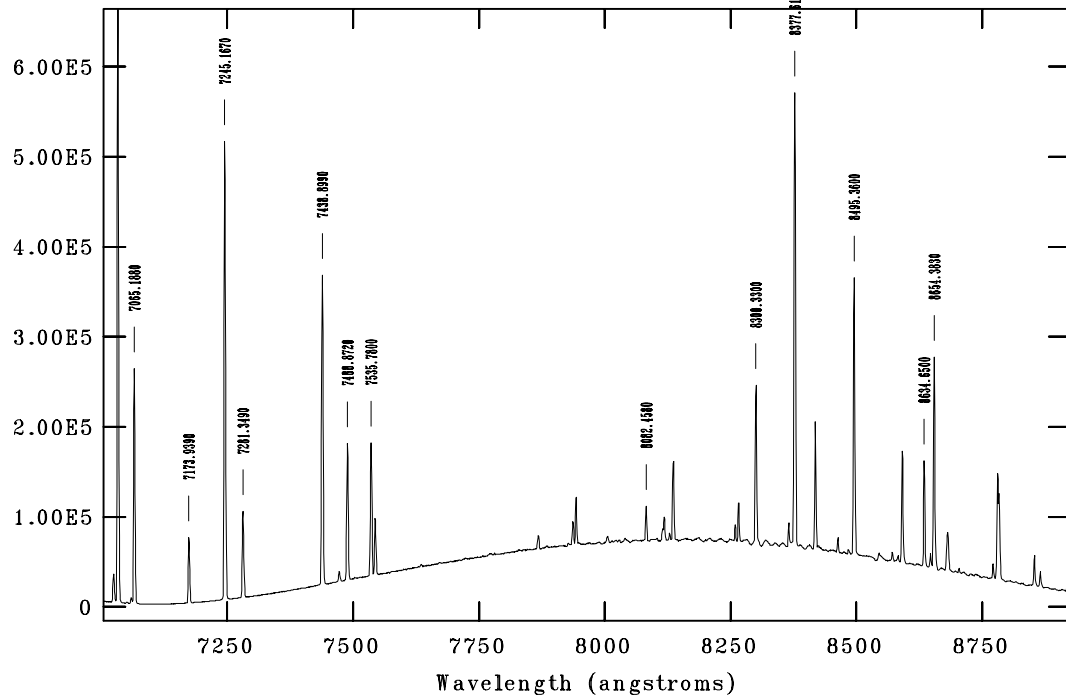


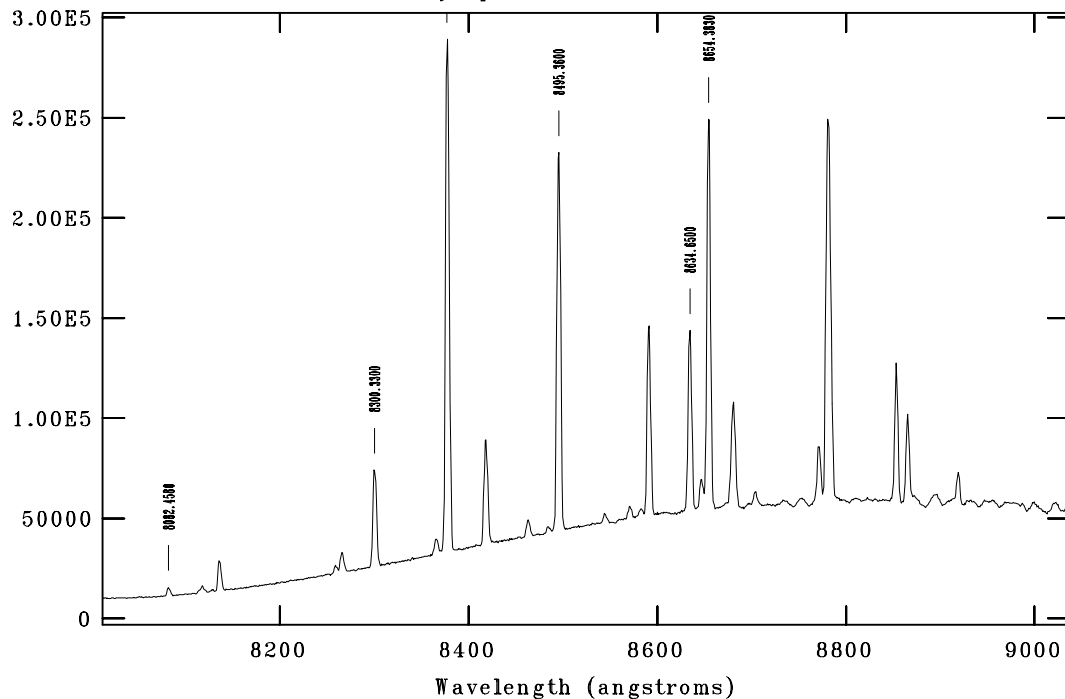












NOAO/IRAF V2.14.1 jujia@ubuntu Sun 03:06:53 05-Nov-2017
Function=chebyshev, xorder=4, yorder=4, slope=-1, offset=19, rms=0.1136
Echelle Dispersion Function Fitting

