

Obszervatórium adatai

Noao => observatory

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = noao  
TASK = observatory  
  
command = set Command (set|list|images)  
obsid = ? Observatory to set, list, or image default  
images = List of images  
(verbose= no) Verbose output?  
  
(observa= obspars) Observatory identification  
(name = ddo) Observatory name  
(longitu= 79.42167) Observatory longitude (degrees)  
(latitud= 43.8633) Observatory latitude (degrees)  
(altitud= 244.) Observatory altitude (meters)  
(timezon= 5.) Observatory time zone  
override= obspars Observatory identification  
(mode = ql)  
  
ESC-? for HELP
```

Obszervatórium adatai

```
szkai@intoni:~$
lna: Laboratorio Nacional de Astrofisica - Brazil
saa: South African Astronomical Observatory
osleo: Observatorio Astronomico El Leoncito, San Juan
lraan: Estacio Astronfica Riu de Alegre, Curitiba
nashv: National Astronomical Observatory - Japan - Bulacan
lra: NSF Infrared Telescope Facility
bqso: Bowling Green State Univ Observatory
DSO: Deutsch-Spanisches Observatorium Calar Alto - Spain
ca: Calar Alto Observatory
holi: Observatorium Hoher List (Universitaet Bonn) - Germany
lmo: Lester McCormick Observatory
fmo: Fan Mountain Observatory
writn: Whittier Observatory, Malibu, CA
osn: Observatorio de Sierra Nevada
gmn-north: Gemini North Observatory
gmn-south: Gemini South Observatory
lasilla: European Southern Observatory; La Silla
paranal: European Southern Observatory; Paranal
esortt: European Southern Observatory, NTT, La Silla
esobn: European Southern Observatory, 3.6m Telescope, La Silla
esall: European Southern Observatory, VLT, Paranal
ospar: Use parameters from OBSERVATORY task

Observatory identification (cbpars) cpars
```

```
szkai@intoni:~$
ca: Calar Alto Observatory
holi: Observatorium Hoher List (Universitaet Bonn) - Germany
lmo: Lester McCormick Observatory
fmo: Fan Mountain Observatory
writn: Whittier Observatory, Malibu, CA
osn: Observatorio de Sierra Nevada
gmn-north: Gemini North Observatory
gmn-south: Gemini South Observatory
lasilla: European Southern Observatory; La Silla
paranal: European Southern Observatory; Paranal
esortt: European Southern Observatory, NTT, La Silla
esobn: European Southern Observatory, 3.6m Telescope, La Silla
esall: European Southern Observatory, VLT, Paranal
ospar: Use parameters from OBSERVATORY task

Observatory identification (cbpars): cpars
# Observatory parameters for ddo:
  observatory = cbspars
  timezone = 5
  altitude = 244
  latitude = 43.8633
  longitude = 73.42163000000000
  name = ddo
```

Fejléc szerkesztése

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = setjd  
  
images = █ 51Peg_korr Images  
(observa=  obspars) Observatory of observation  
(date =  date-obs) Date of observation keyword  
(time =  time-obs) Time of observation keyword  
(exposur=  exptime) Exposure time keyword  
(ra =  ra) Right ascension (hours) keyword  
(dec =  dec) Declination (degrees) keyword  
(epoch =  equinox) Epoch (years) keyword  
  
(jd =  jd) Output Julian date keyword  
(hjd =  hjd) Output Heliocentric Julian date keyword  
(ljd =  ljd) Output local Julian date keyword  
  
(utdate =  yes) Is observation date UT?  
(uttime =  yes) Is observation time UT?  
(listonl=  no) List only without modifying images?  
(mode =  ql)
```

ESC-Q for HELP

Fejléc szerkesztése

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = setjd  
  
images =          thar1,thar2 Images  
(observa=        obspars) Observatory of observation  
(date =          date-obs) Date of observation keyword  
(time =          time-obs) Time of observation keyword  
(exposur=        exptime) Exposure time keyword  
(ra =            ra) Right ascension (hours) keyword  
(dec =           dec) Declination (degrees) keyword  
(epoch =        equinox) Epoch (years) keyword  
  
(jd =            jd) Output Julian date keyword  
(hjd =           ) Output Heliocentric Julian date keyword  
(ljd =           ljd) Output local Julian date keyword  
  
(update =       yes) Is observation date UT?  
(uttime =       yes) Is observation time UT?  
(listonl=       no) List only without modifying images?  
(mode =         ql)
```

ESC-? for HELP

```

szkali@anton: ~ - Konsole
vunkoro yamat Szorkozatoc Nizo: Bóllilócok Söjttög

$ cat: 51Fex.komp.fats: Cezl 0 2105280 o&t, 03
=====
IIM1 = 1 / Ibis standard
EITPIX = -32 / B_Ubyte_pixel
NAKIE = 2 / Number of axes
NAXIS1 = 312 / Ibis length
NAXIS2 = 104 / Axis length
EXTEND = F / File may contain extensions
CR3IN = 'ICAO-IPAF FITS Inco kernel December 2001' / FITS file originator
DATE = 2005-11-16T21:06:13
MVA_HH = 12:05:33 (10/11/2001)
CCDSEG = [1:1024,1:1024] / Frame format
FILE = 20003551.FTS / File name
OBJECT = IC217014 / Inco name
IMAGET = 16.gap / Image observation
CBSEVER = v1k7F w/Ti D&S / Hardware or ID(s)
DATE-OBS = 2005-08-29 / Date of start of observation in UTC
TIME-OBS = 04:48:50 / start Universal time
INTEGR = 35 / 165 / Integration exposure
RA = 20:52:33 / Right Ascension (hh:mm:ss)
DEC = 20:13:57 / Declination (dd:mm:ss)
HI = / Actual position of telescope
LUNID0 = 100 / Equinox
EXPTIME = 1301 / Exposure time in seconds
=====
18Úz6 2KSo-Tö 2K-Lép 1Hex E8or EK-Pker 7Kénc EK-Jase 9K-Fom 10K-Lép

```

Fejléc

```

szkali@anton: ~ - Konsole
vunkoro yamat Szorkozatoc Nizo: Bóllilócok Söjttög

$ cat: 51Fex.komp.fats: Cezl 0 2105280 o&t, 03
=====
IIM1 IIM2 = / temperature: deg C Obs. cell y deg
TEMP-CS2 = / temperature: deg C Cass. position2
TEMP-EC1 = 13.6 / temperature: deg C Echo position1
TEMP-EC2 = 13.7 / temperature: deg C Echo position2
IIM1 IIM2 = / temperature: deg C telescope tilt
TEMP-CEL = / temperature: deg C air cell
CROCF = Threshold= 25.0, Fluct=10, -1.83, rnoise=105
ACSDIM = 2
LIM1_1 = 1
LIM2_2 = 1
KATO_001 = system:pho:sl
KAT1_001 = wtype:lincon
KAT2_001 = wtype:lincon
FLATCOR = 'lev 10 13:05 Flat field image is Flat with slope=1.'
CCDSEG = [1:512,1:102]
CCDPROC = 'lev 10 13:05 CCD processing done'
MJD = 2452150.711656
+JD = 2452150.71167058
LJD = 2452150.
=====
END
18Úz6 2KSo-Tö 2K-Lép 1Hex E8or EK-Pker 7Kénc EK-Jase 9K-Fom 10K-Lép

```

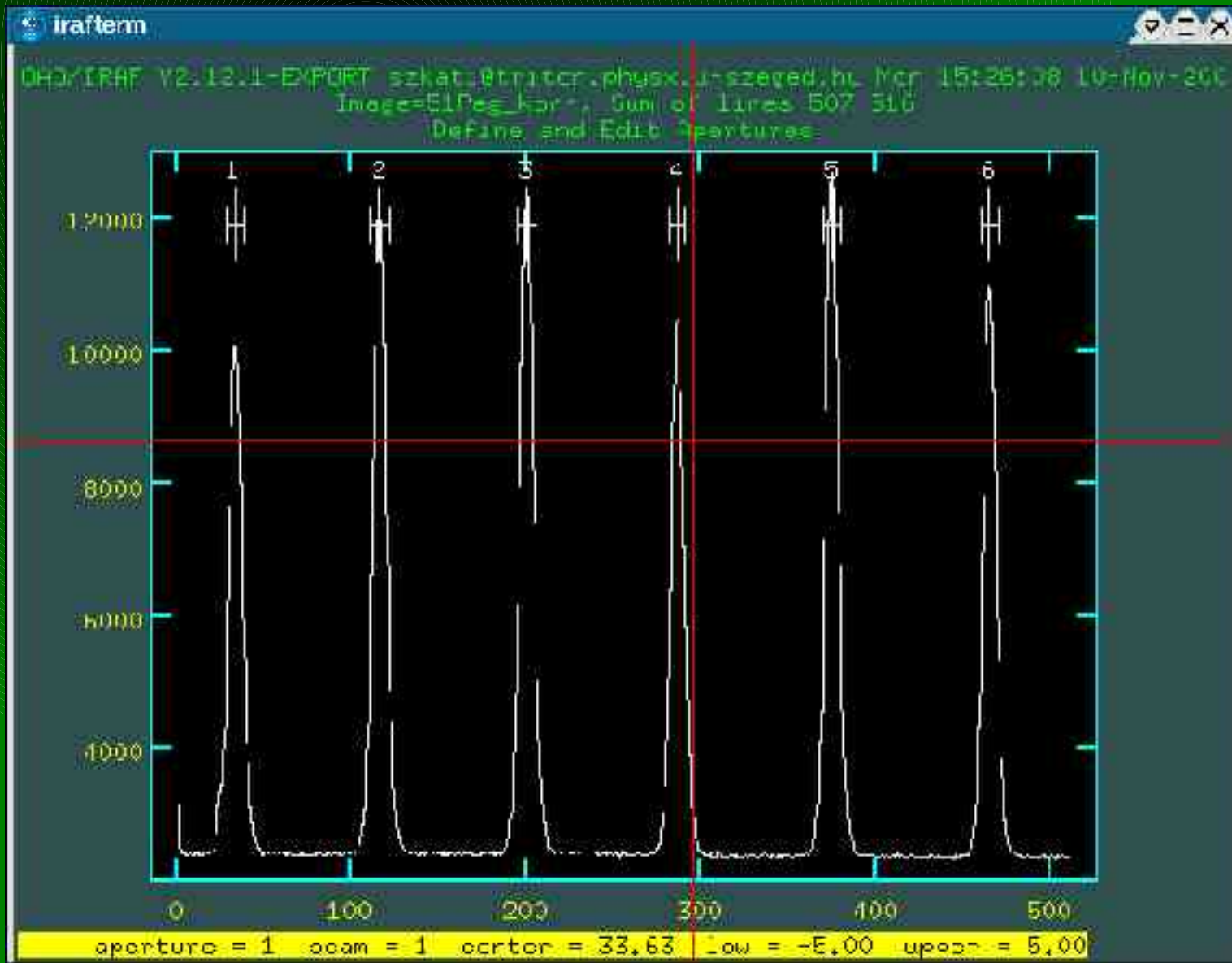
Apertúra követés és hullámhossz- kalibrálás

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = doecslit  
  
objects = 51Peg_korr List of object spectra  
(apref = 51Peg_korr) Aperture reference spectrum  
(arcs = thar1,thar2) List of arc spectra  
(arctabl= ) Arc assignment table (optional)  
(standar= ) List of standard star spectra  
  
(readnoi= 0.) Read out noise sigma (photons)  
(gain = 1.) Photon gain (photons/data number)  
(datamax= INDEF) Max data value / cosmic ray threshold  
(norders= 6) Number of orders  
(width = 10.) Width of profiles (pixels)  
  
(dispcor= yes) Dispersion correct spectra?  
(extcor = no) Extinction correct spectra?  
(fluxcal= no) Flux calibrate spectra?  
(resize = no) Resize object apertures?  
(clean = no) Detect and replace bad pixels?  
more  
ESC-? for HELP
```

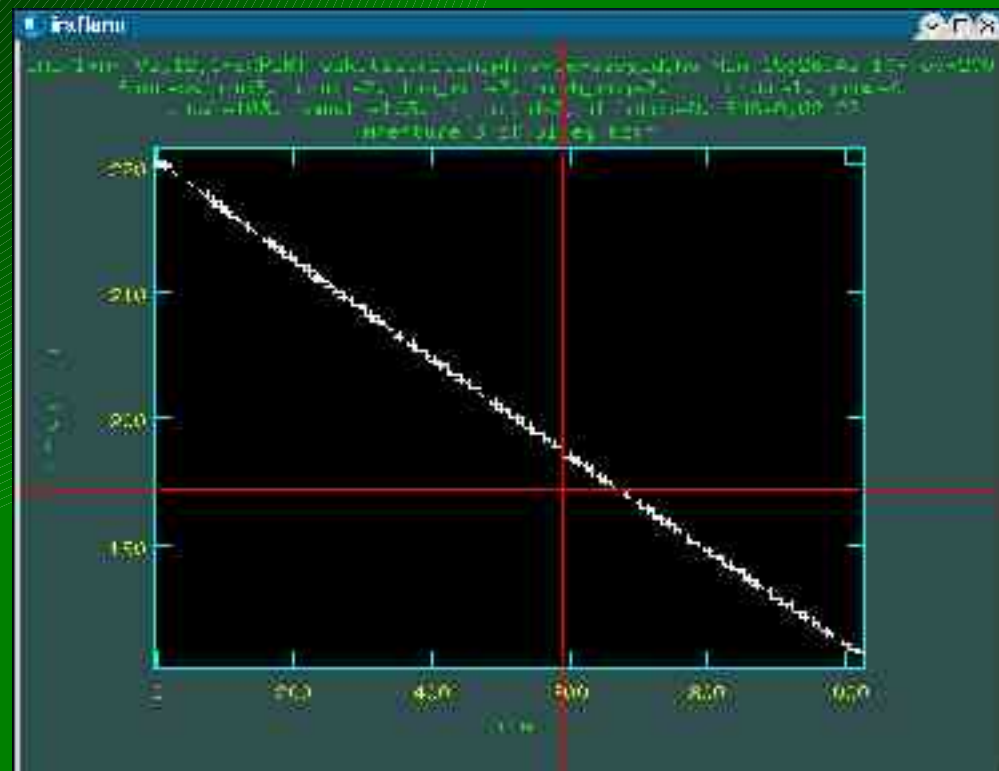
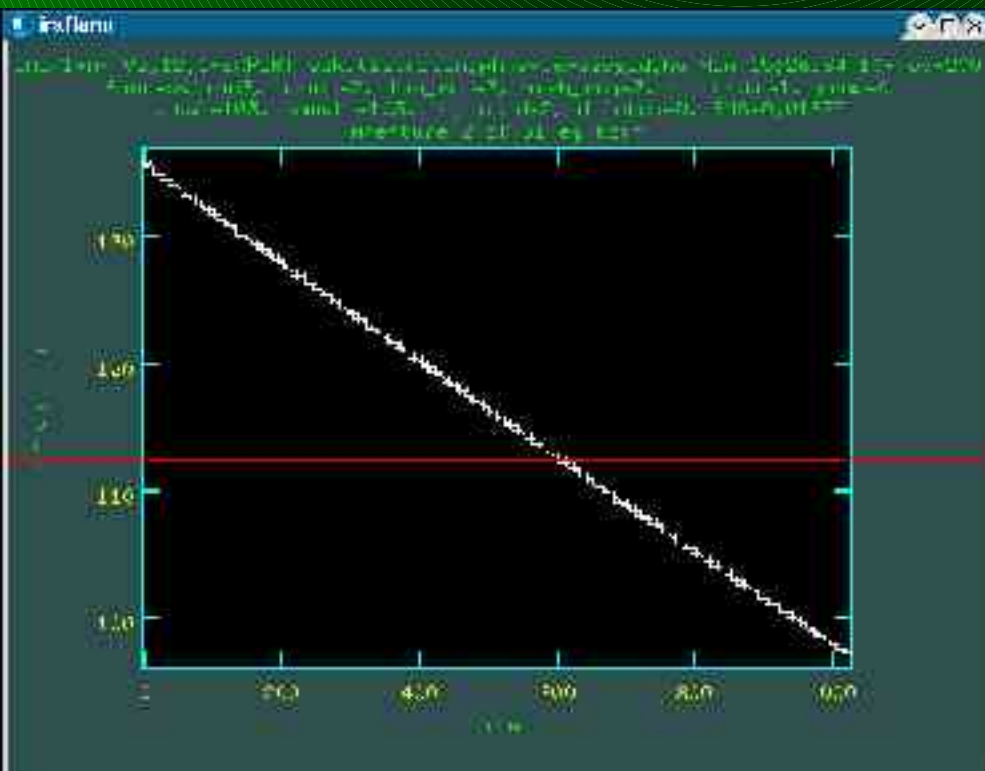
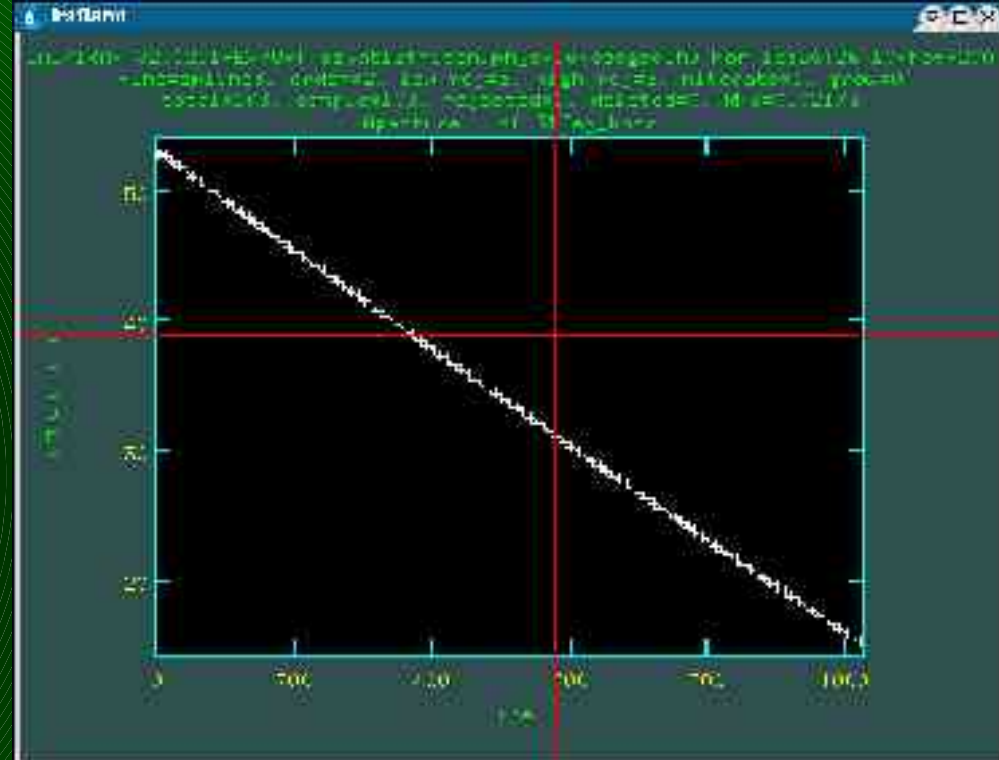
Apertúra követés és hullámhossz- kalibrálás

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = doecslit  
more  
(trace =  yes) Trace object spectra?  
(backgro=  fit) Background to subtract  
(splot =  yes) Plot the final spectra?  
(redo =  no) Redo operations if previously done?  
(update =  no) Update spectra if cal data changes?  
(quicklo=  no) Approximate quicklook reductions?  
(batch =  no) Extract objects in batch?  
(listonl=  no) List steps but don't process?  
  
(sparams=  ) Algorithm parameters  
(mode =  ql)  
  
ESC-? for HELP
```

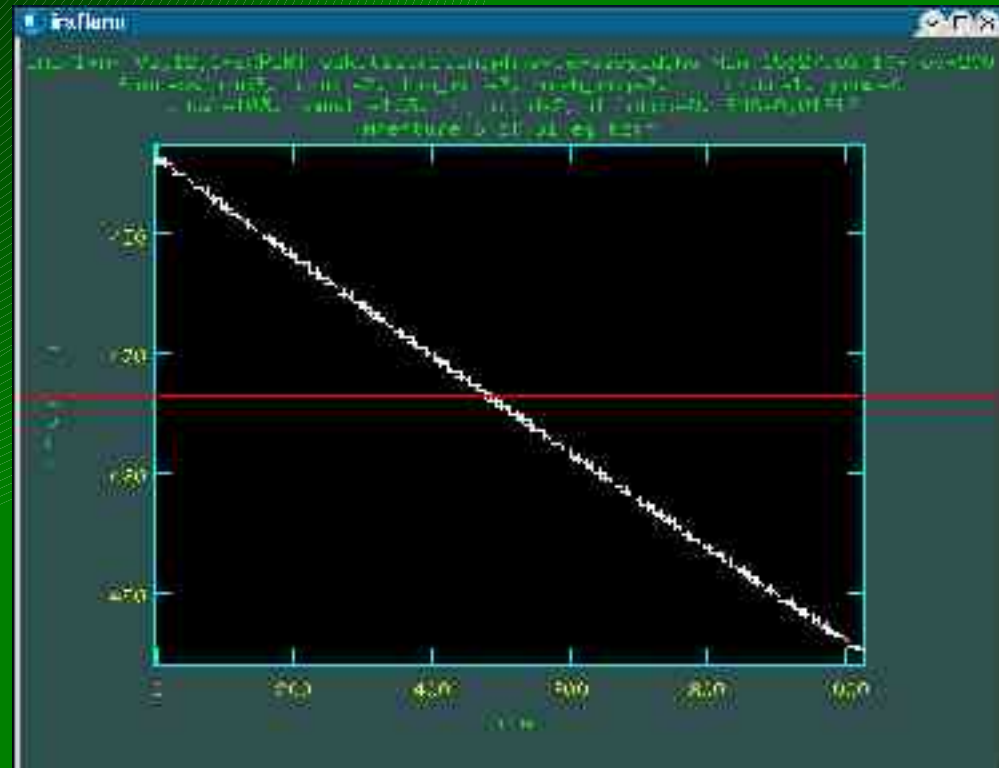
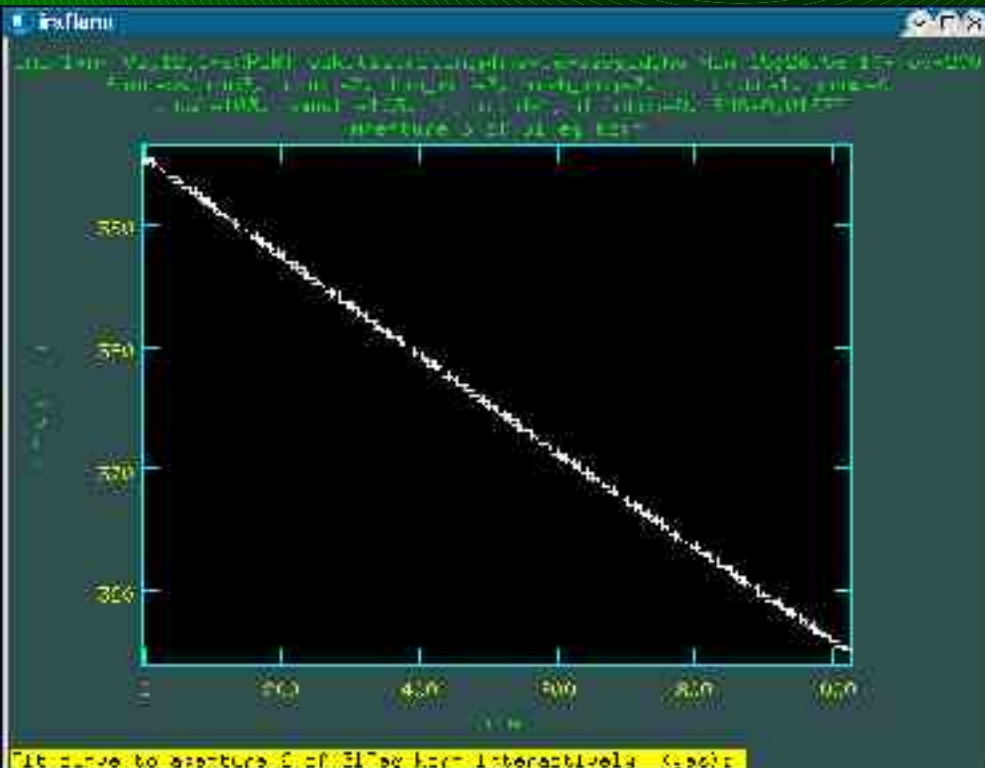
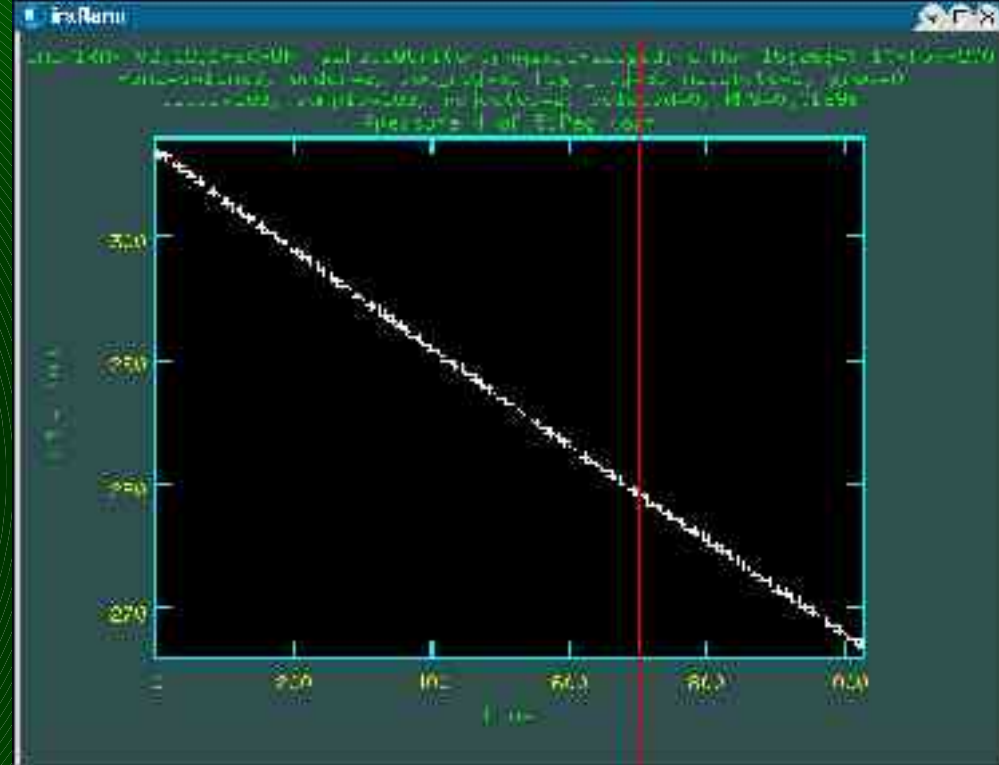
Apertúra

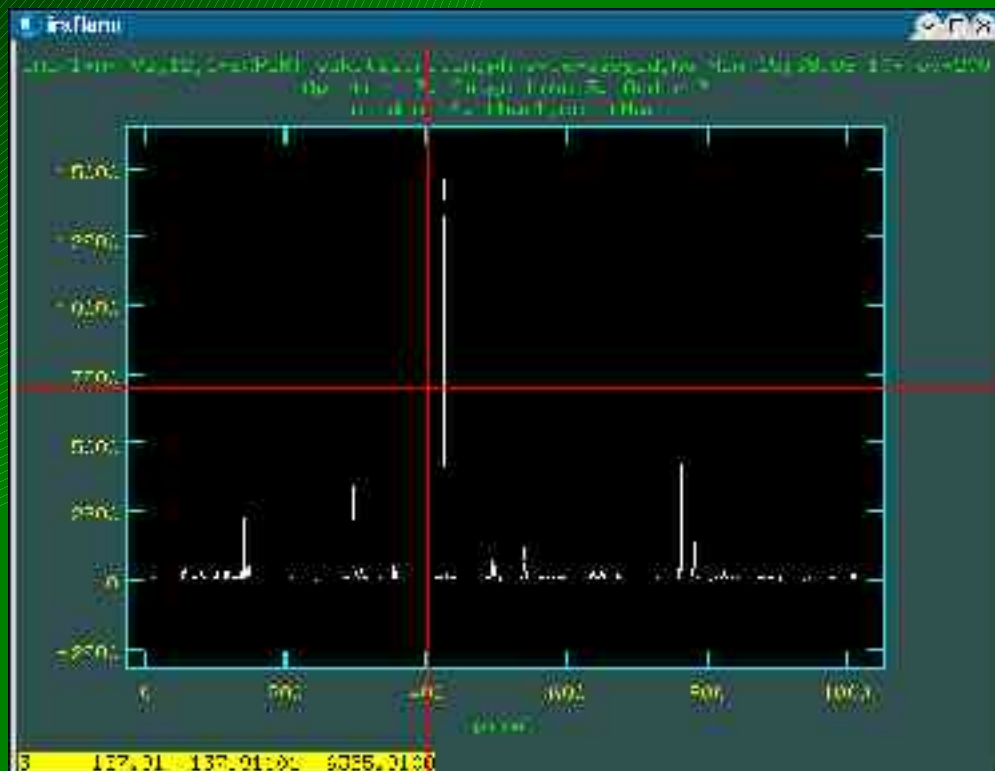
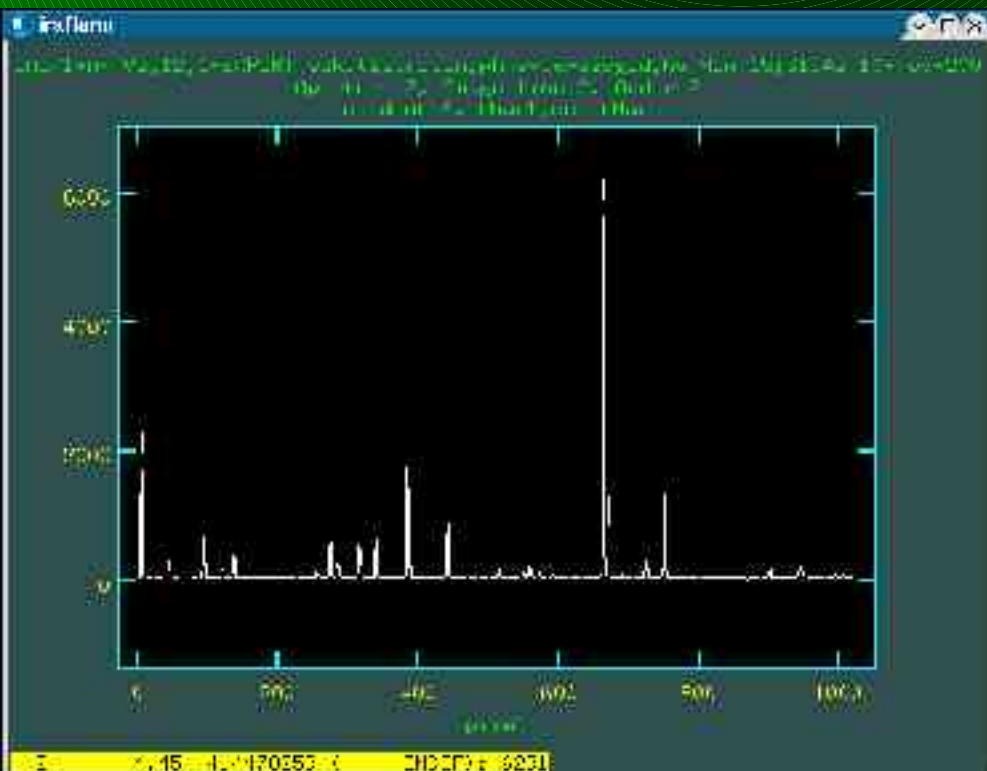
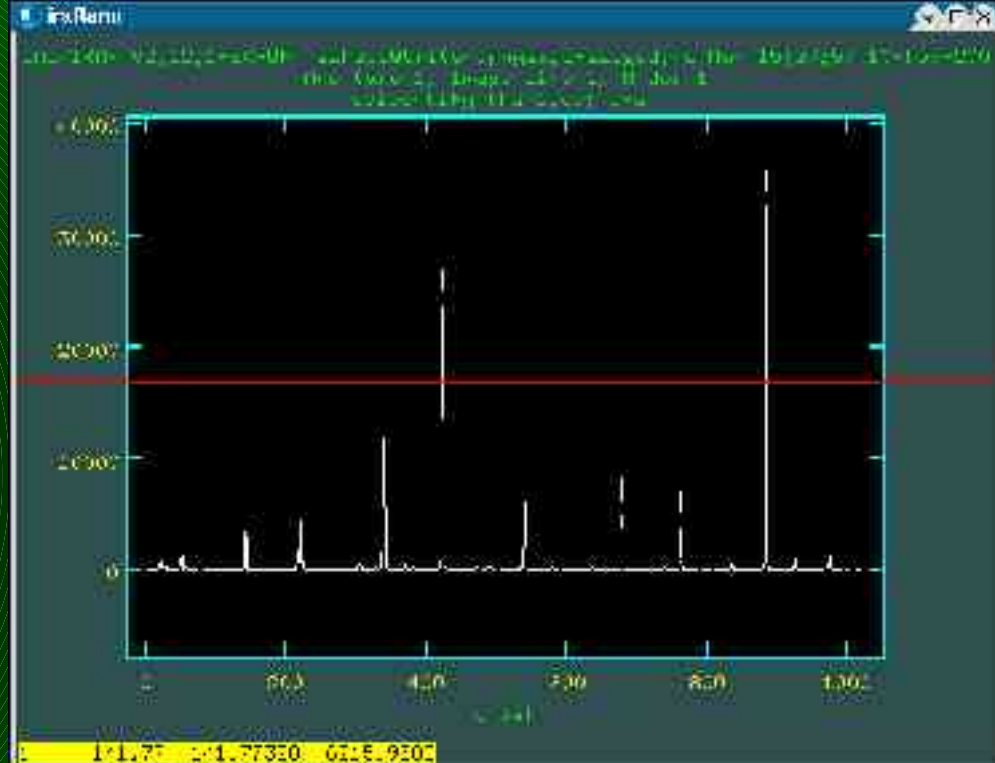
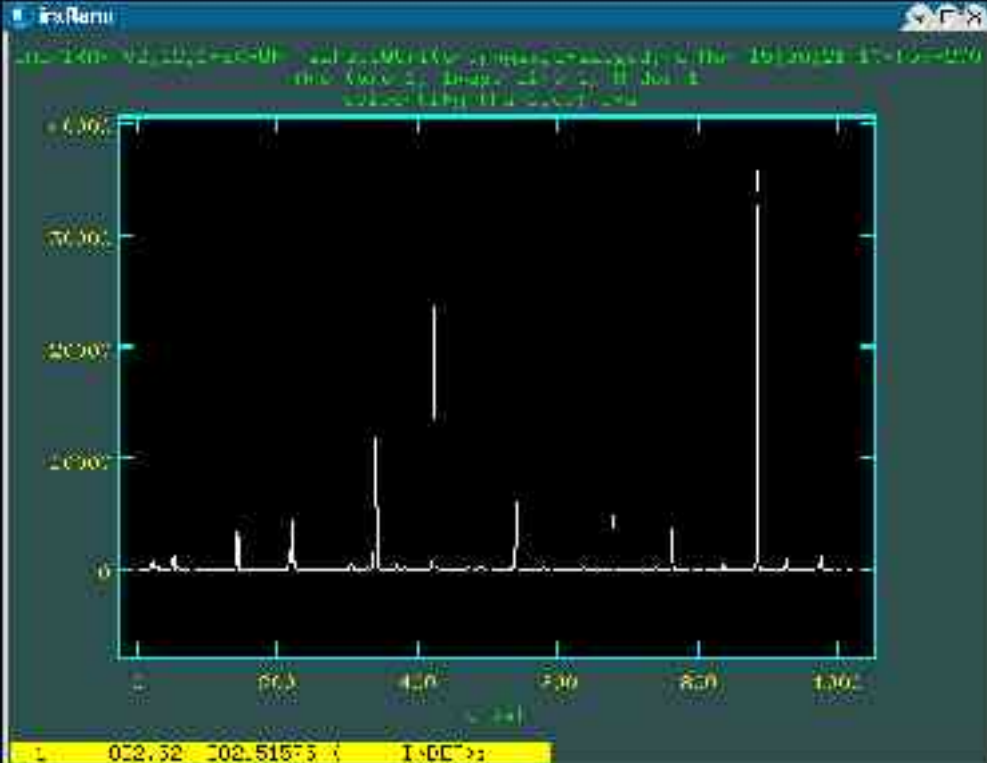


Apertúra

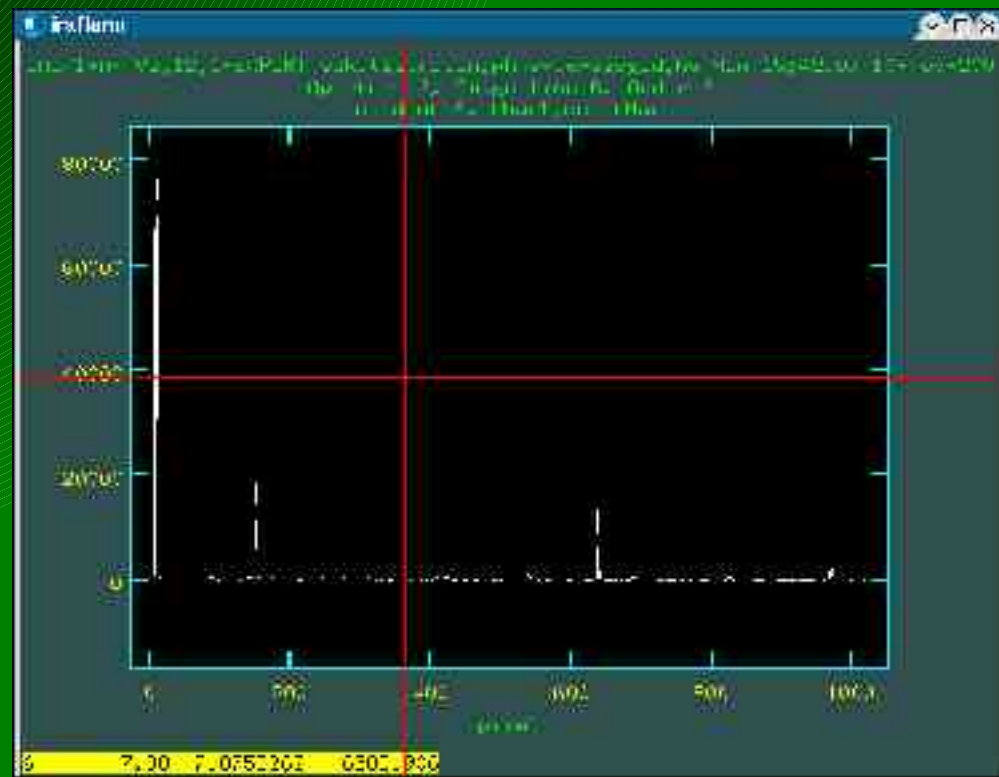
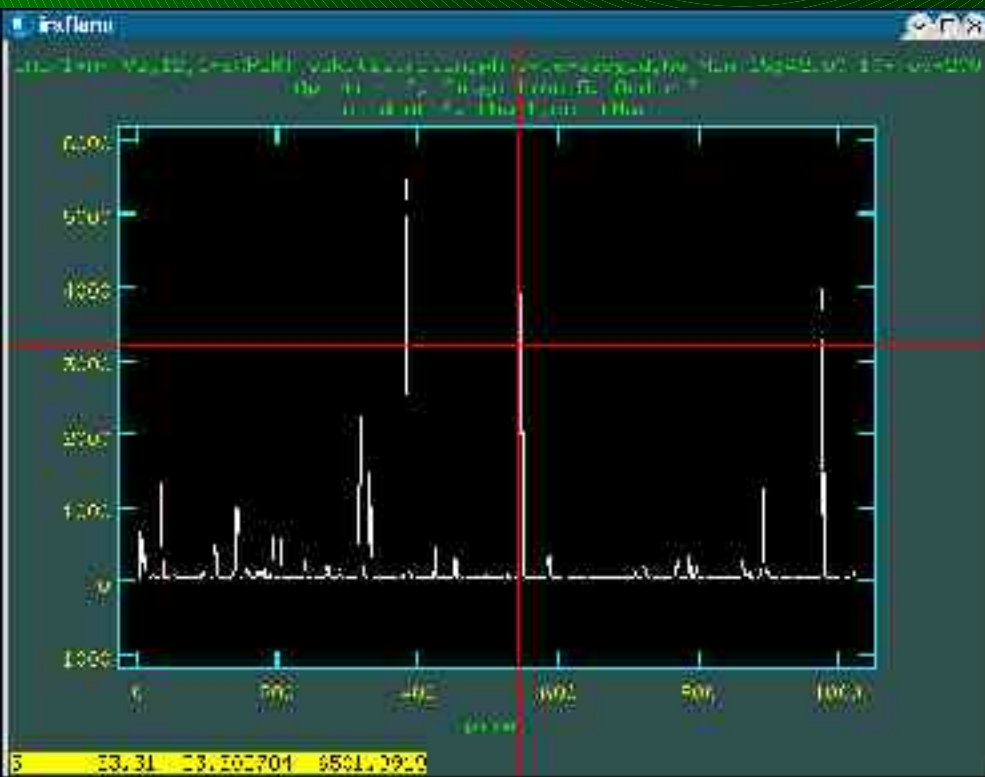
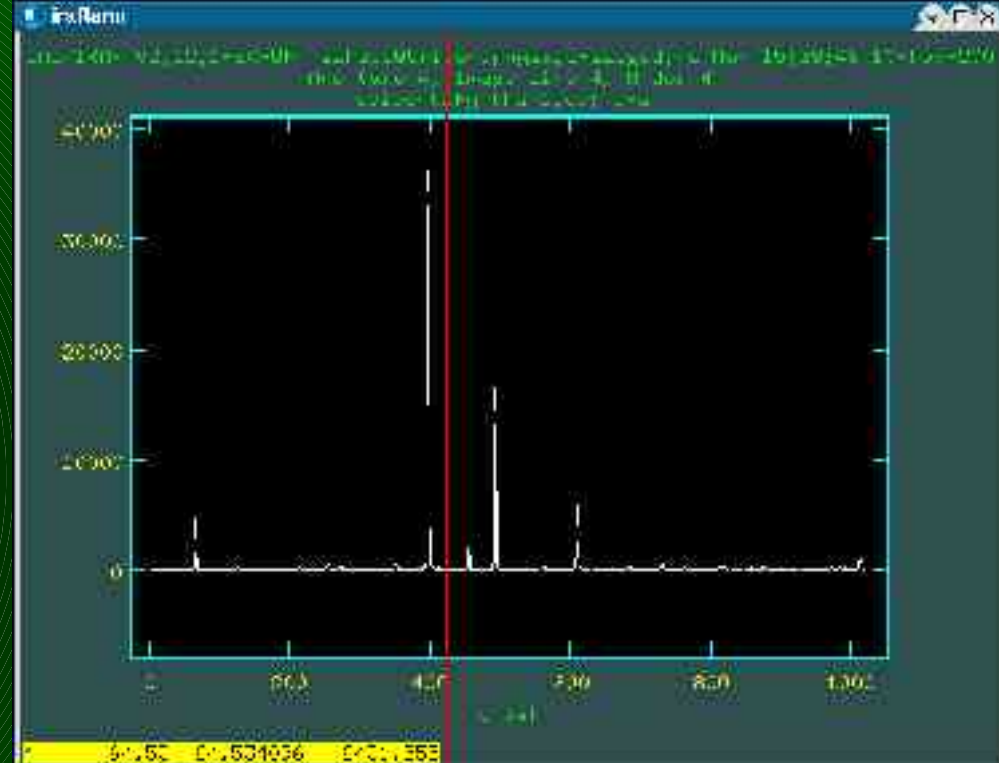


Apertúra

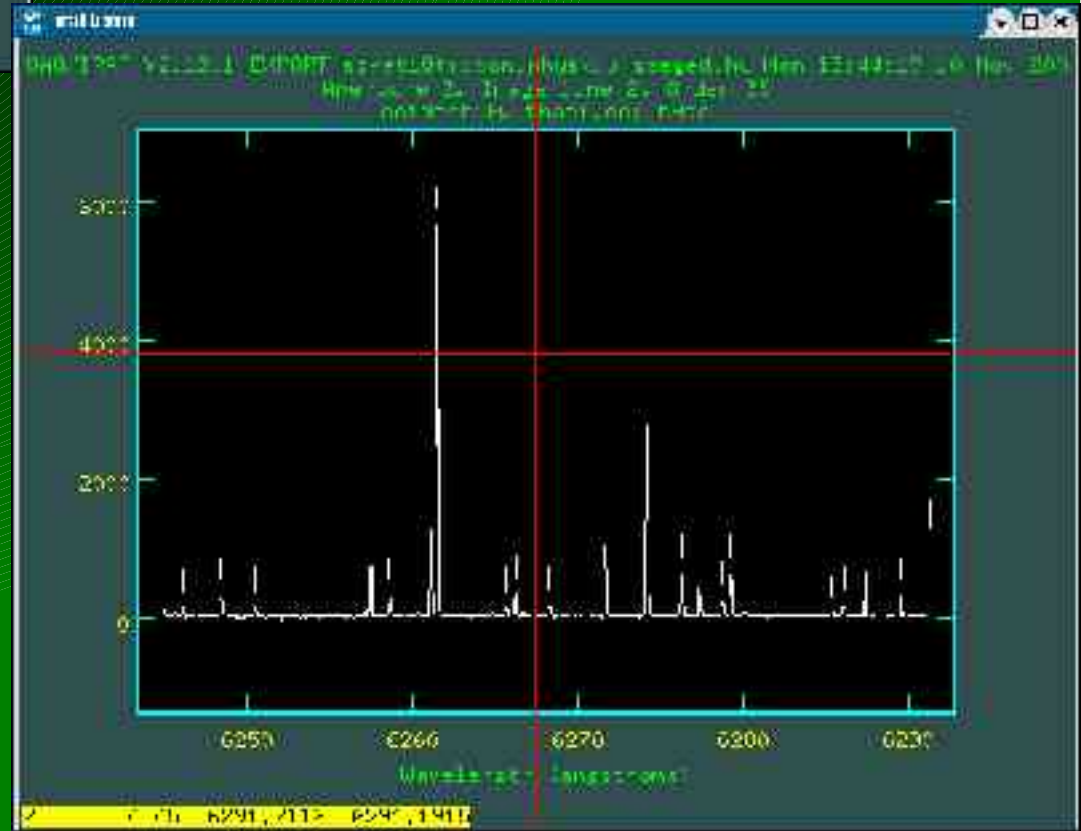
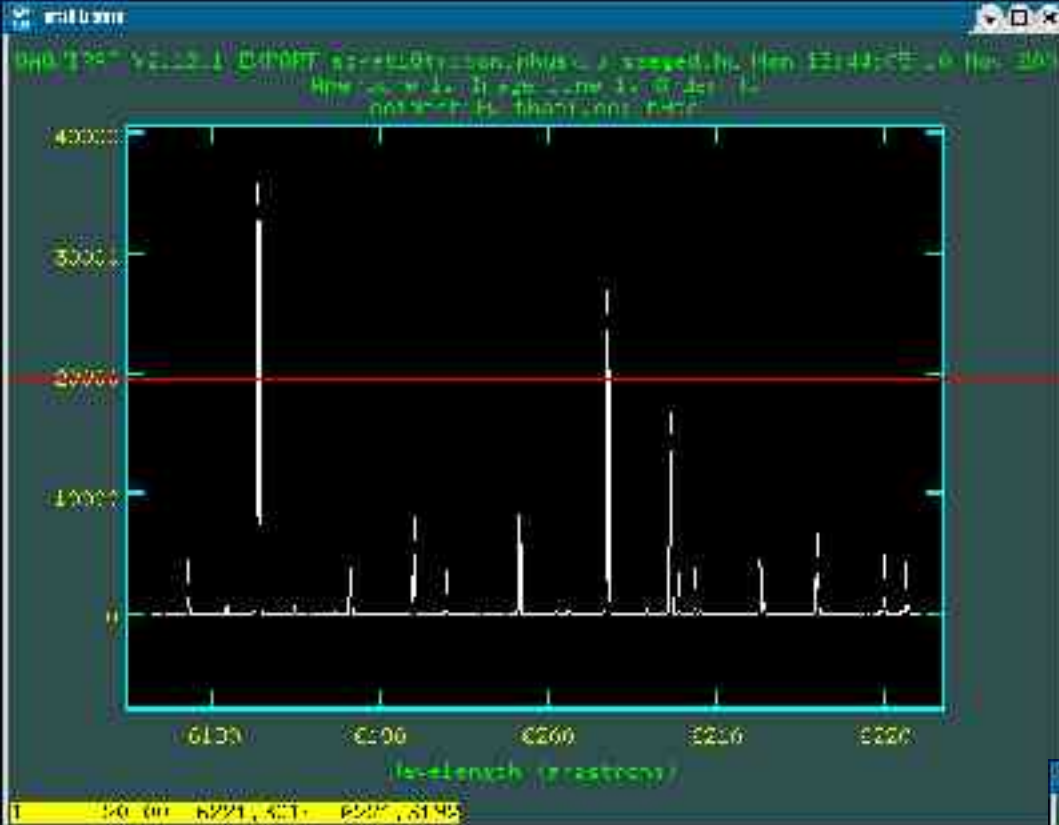




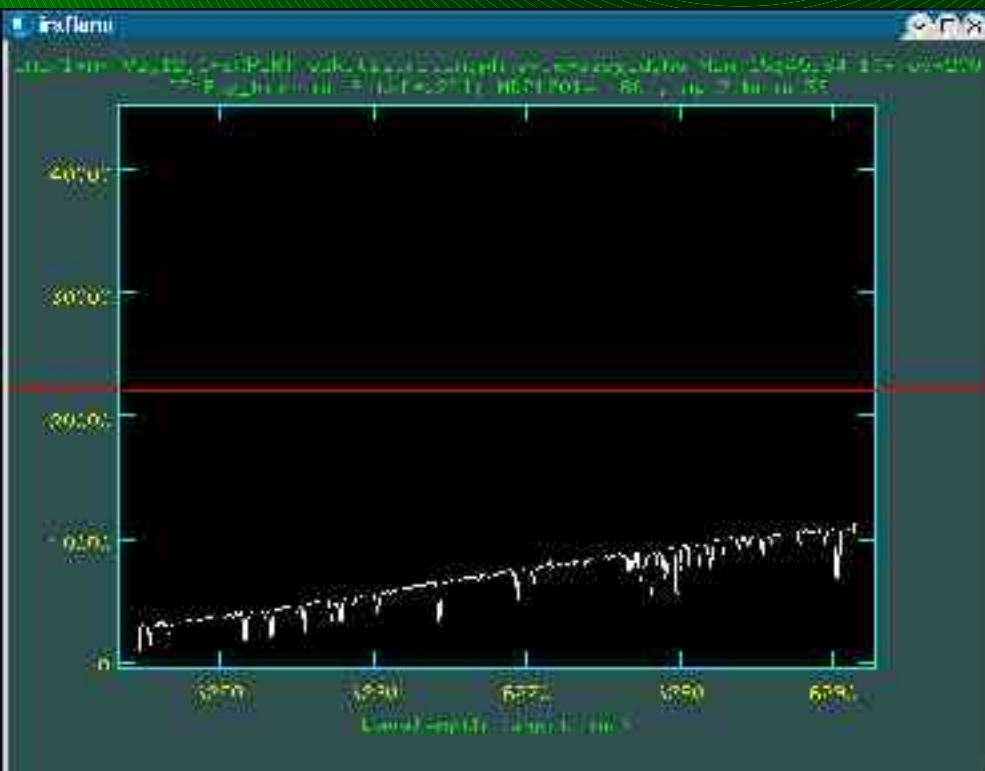
Spekrállámpa



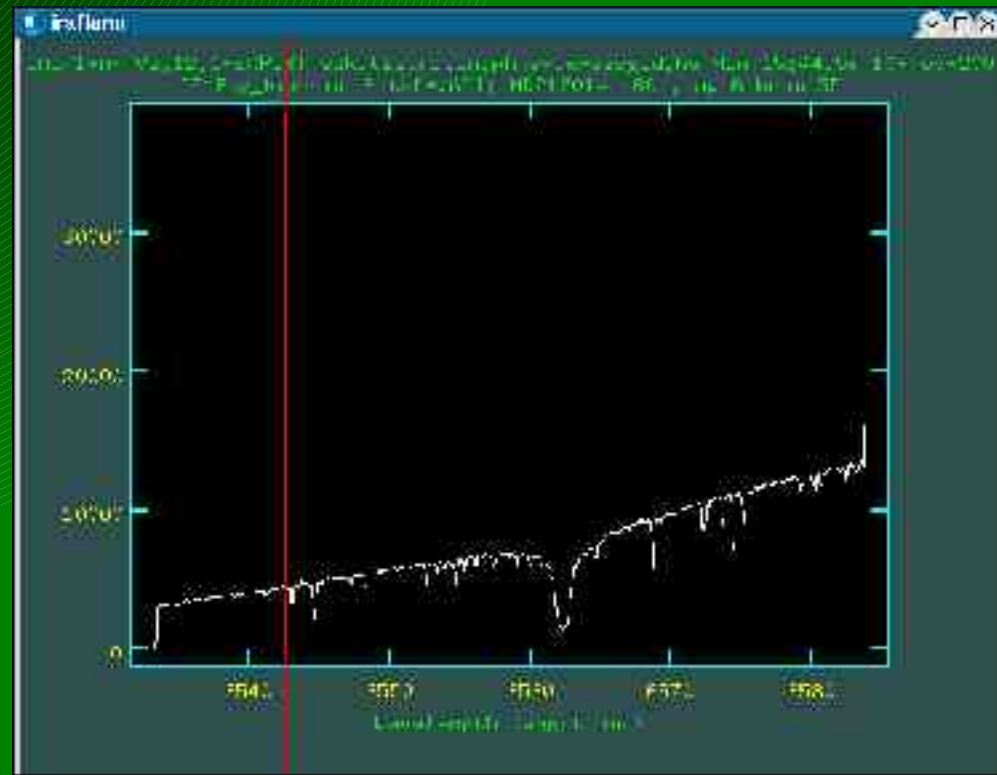
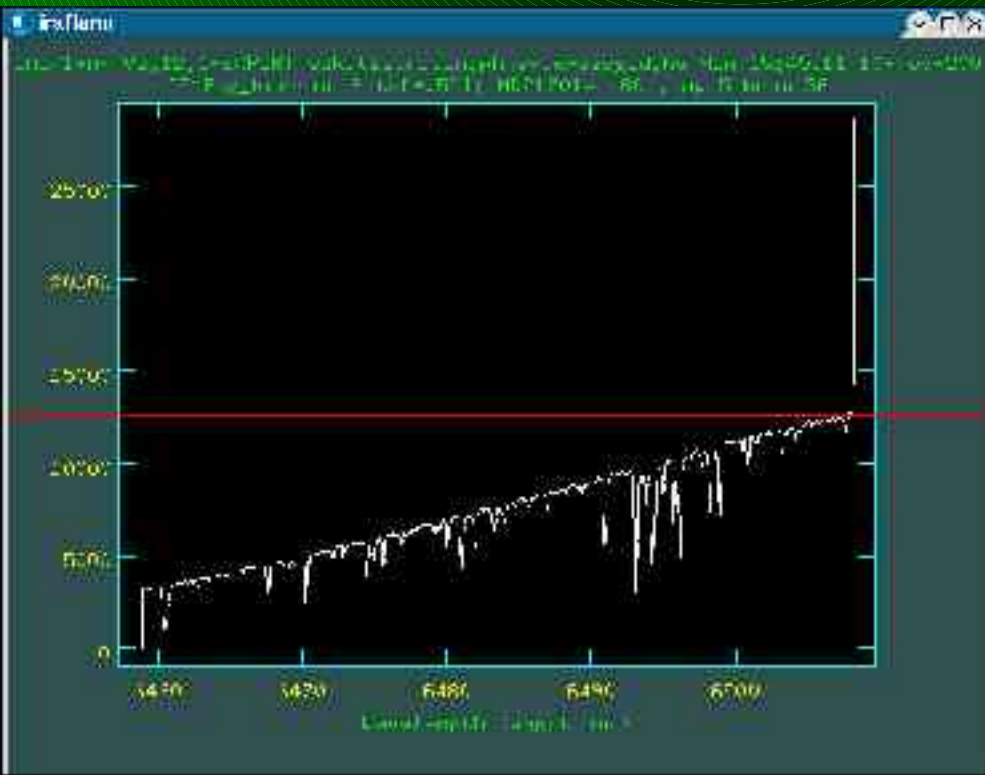
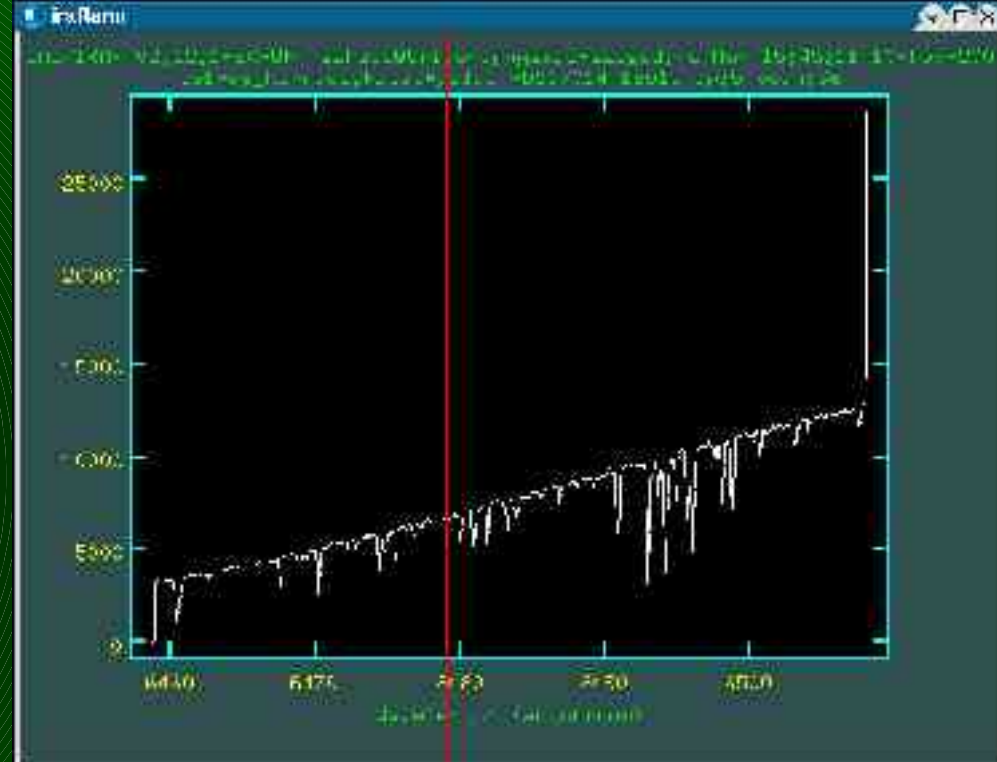
Spektrállámpa



Hullámhossz- kalibrált spektrum



Hullámhossz- kalibrált spektrum

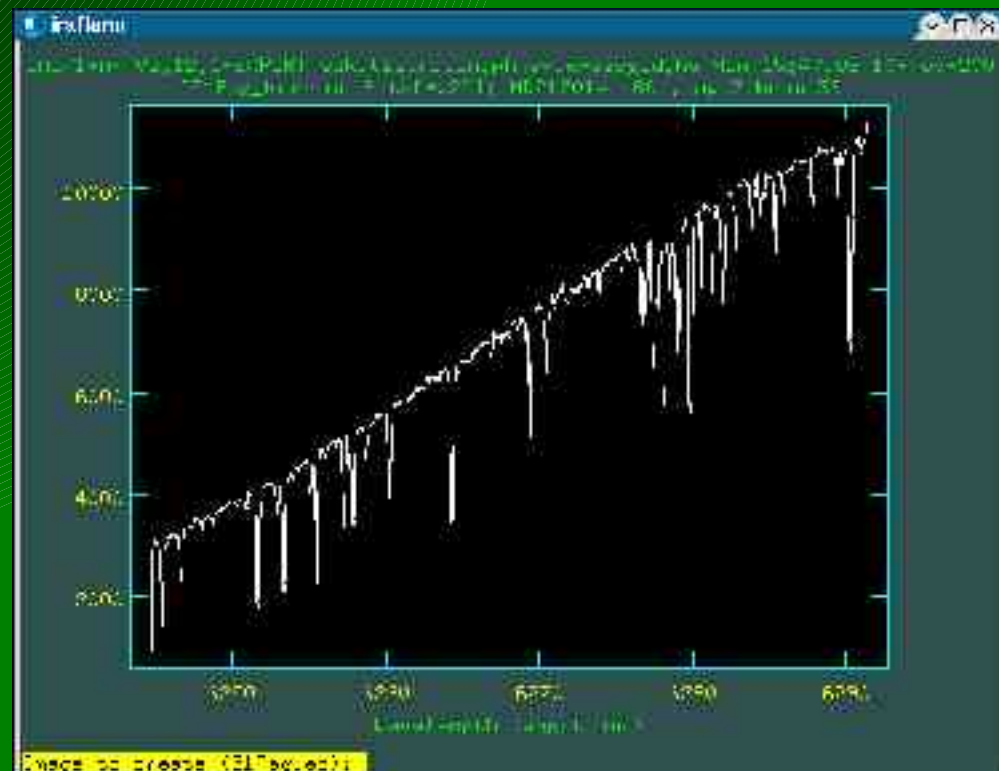
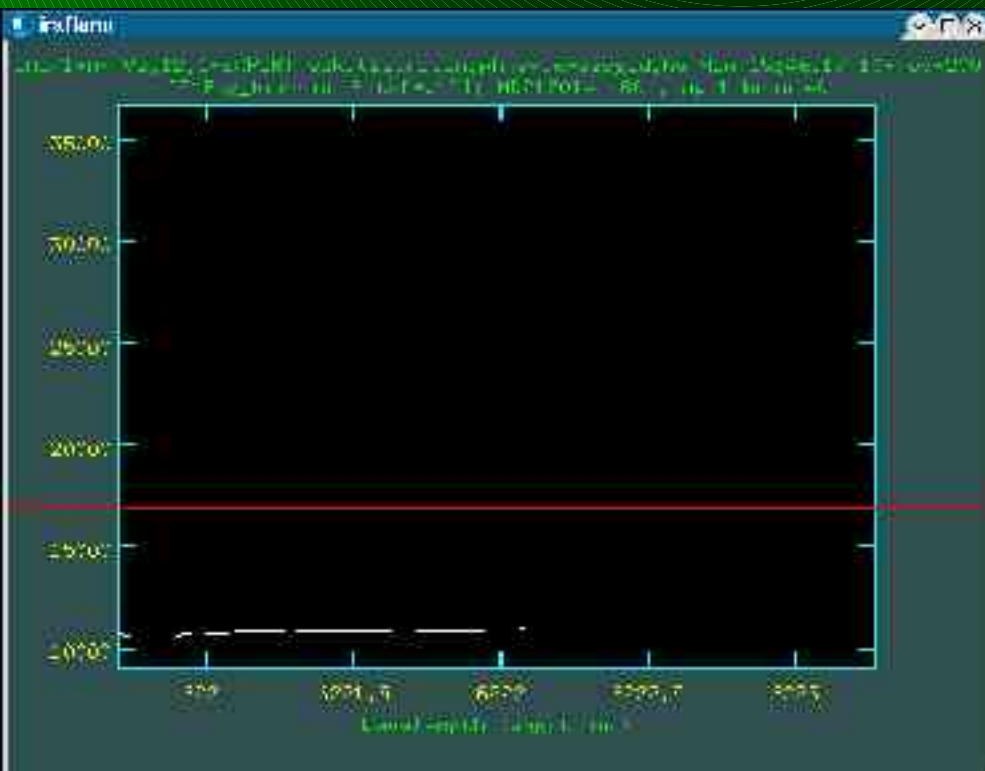
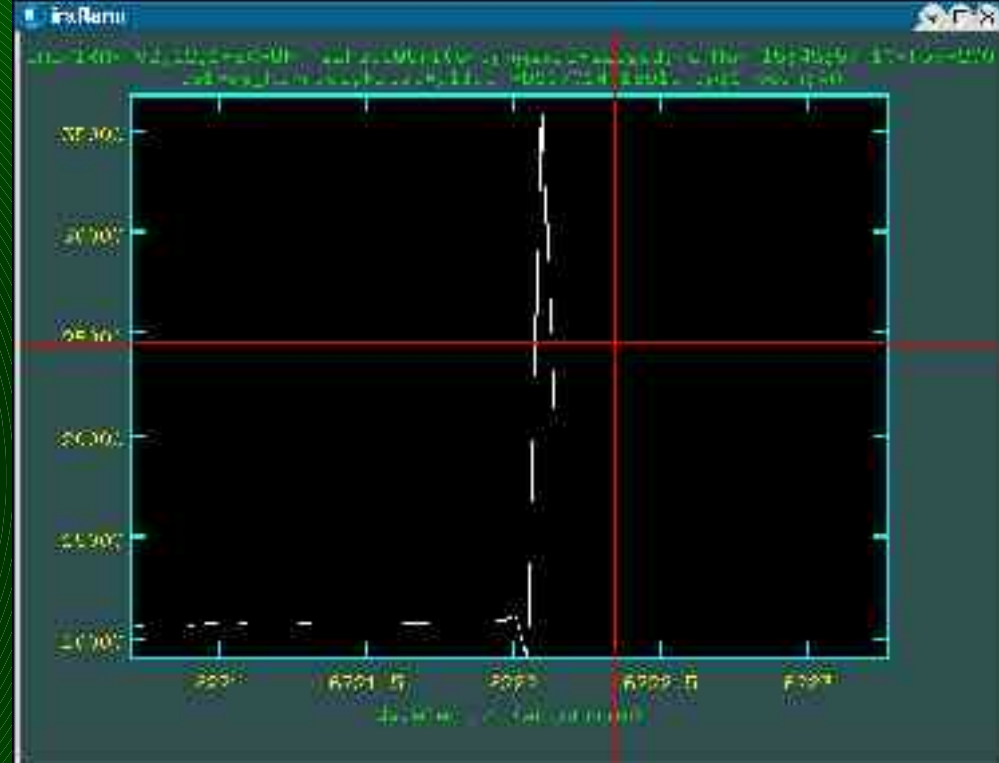


"Javítás"

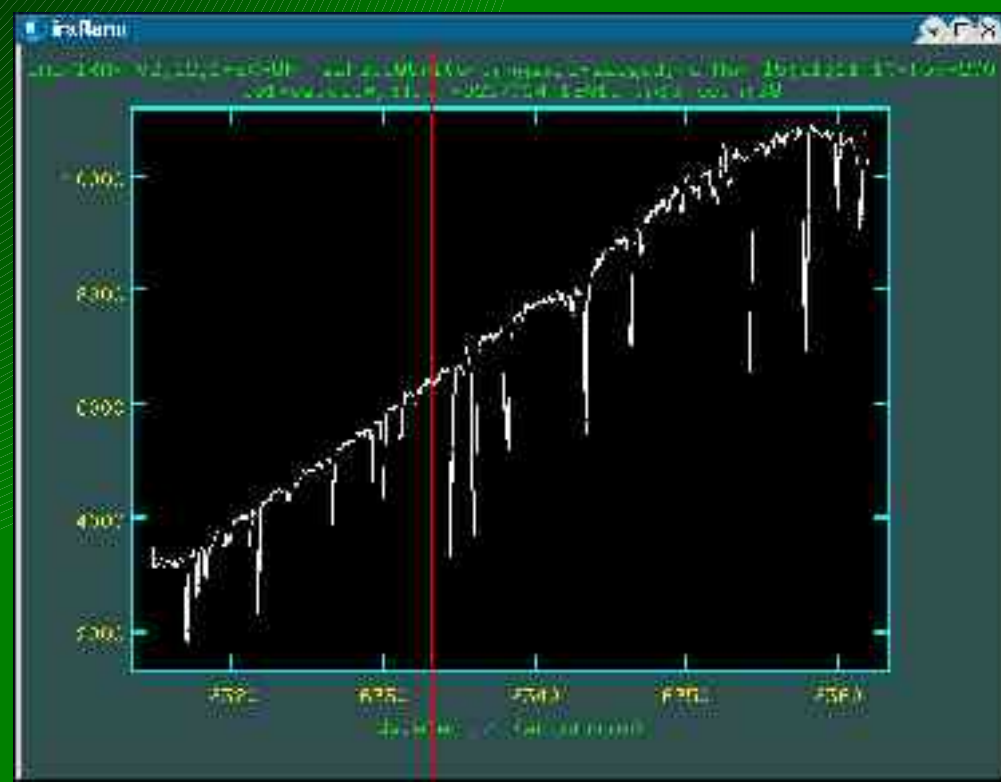
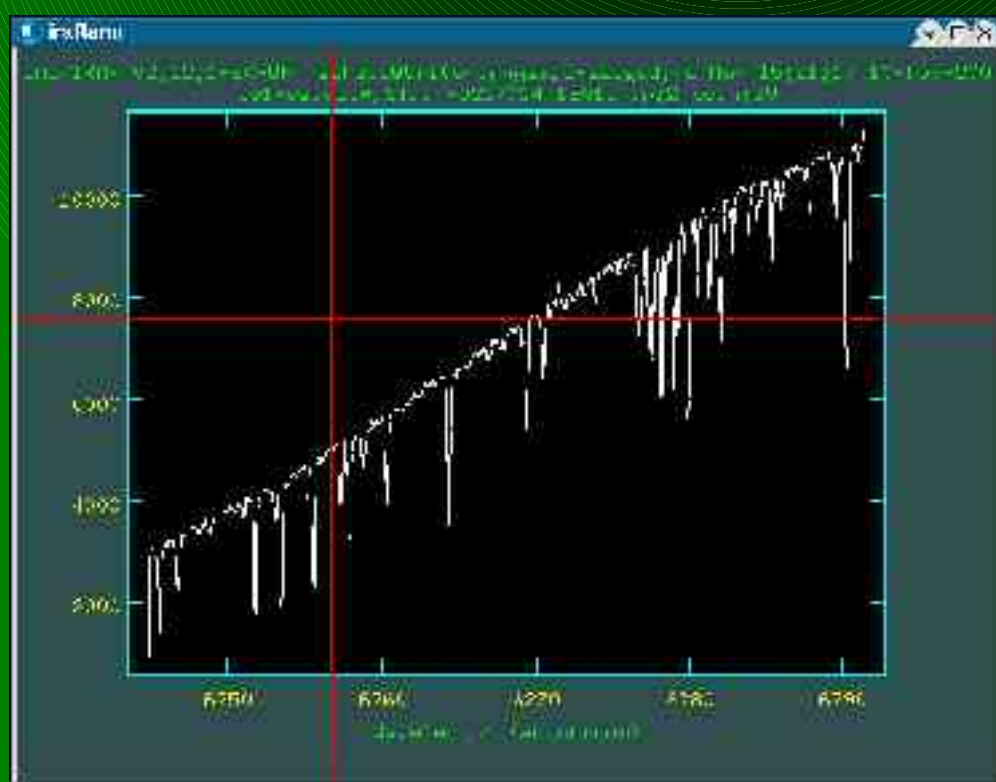
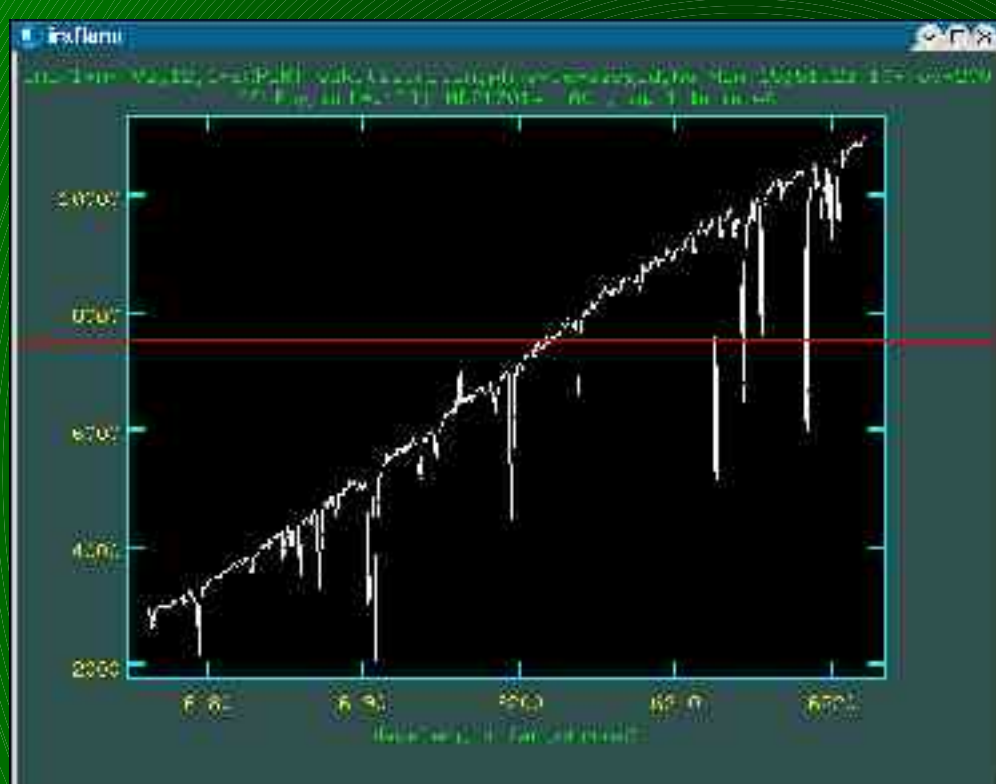
2 x a : nagyítás

j: korrigálás

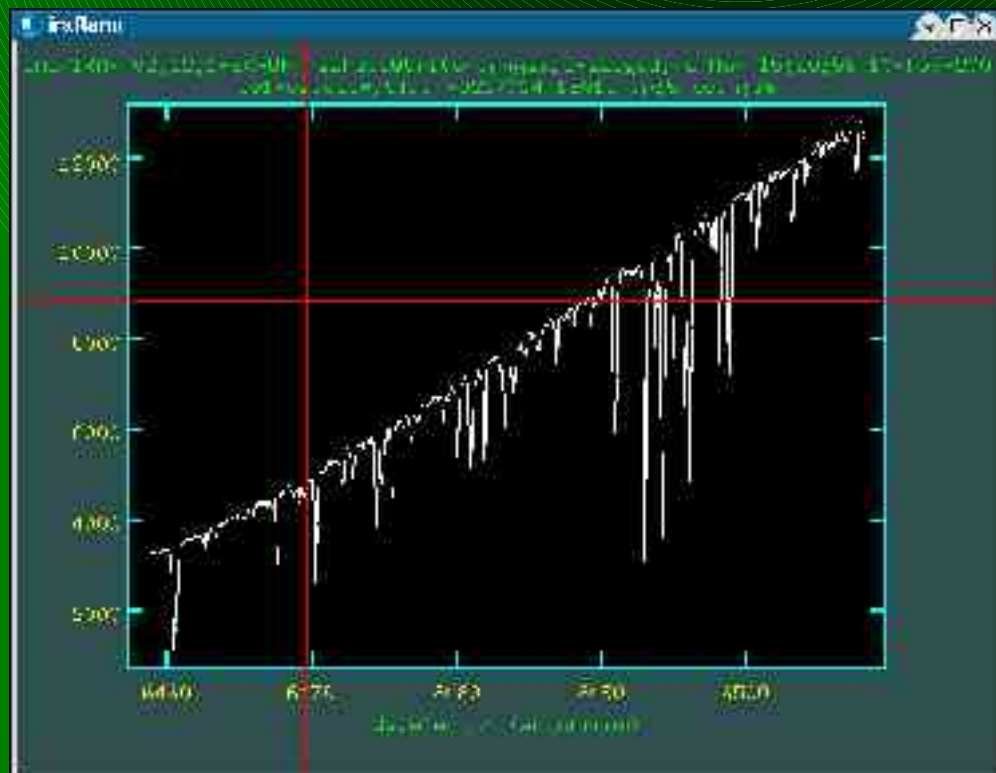
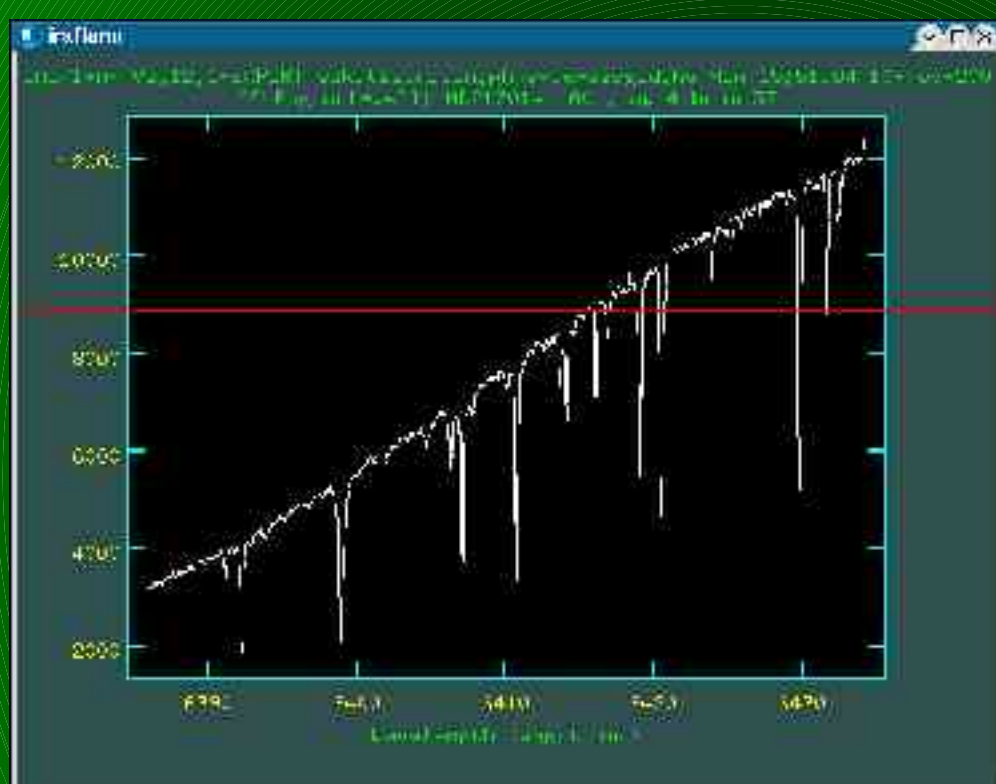
i: elmentés



Javított spektrum



Javított spektrum



Kontinuum normálás

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = continuum  
  
input = 51Peg.ec Input images  
output = 51Peg.nor Output images  
(lines = *) Image lines to be fit  
(bands = 1) Image bands to be fit  
(type = ratio) Type of output  
(replace= no) Replace rejected points by fit?  
(wavesca= yes) Scale the X axis with wavelength?  
(logscal= no) Take the log (base 10) of both axes?  
(overrid= no) Override previously fit lines?  
(listonl= no) List fit but don't modify any images?  
(logfile= logfile) List of log files  
(interac= yes) Set fitting parameters interactively?  
(sample = *) Sample points to use in fit  
(naverag= 1) Number of points in sample averaging  
(functio= spline3) Fitting function  
(order = 1) Order of fitting function  
(low_rej= 2.) Low rejection in sigma of fit  
More  
  
ESC-? for HELP
```

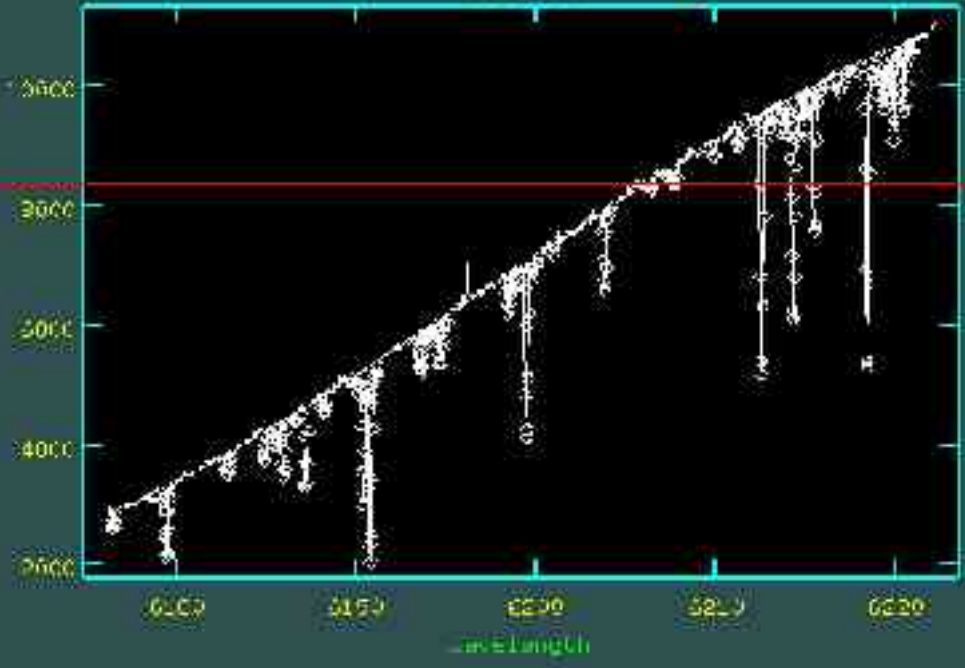
Kontinuum normálás

```
szkati@triton:~  
IRAF  
Image Reduction and Analysis Facility  
PACKAGE = echelle  
TASK = continuum  
more  
(high_re= 0.) High rejection in sigma of fit  
(niterat= 10) Number of rejection iterations  
(grow = 1.) Rejection growing radius in pixels  
(markrej= yes) Mark rejected points?  
(graphic= stdgraph) Graphics output device  
(cursor = ) Graphics cursor input  
ask = yes  
(mode = ql)  
  
ESC-? for HELP
```

```

12.11-EXPL-1 schellib111un.phys.virologie.uni-erlangen.de Mon 11:56:01 17th Jul 2006
[and:plane3 >der=, low res=2, high res=0, niter=10, groups=
  1000=1024, samples=1024, n_spectra=270, delete=], 395 13.33
  50Fex.ec.fax, 01.13
  EXPL011

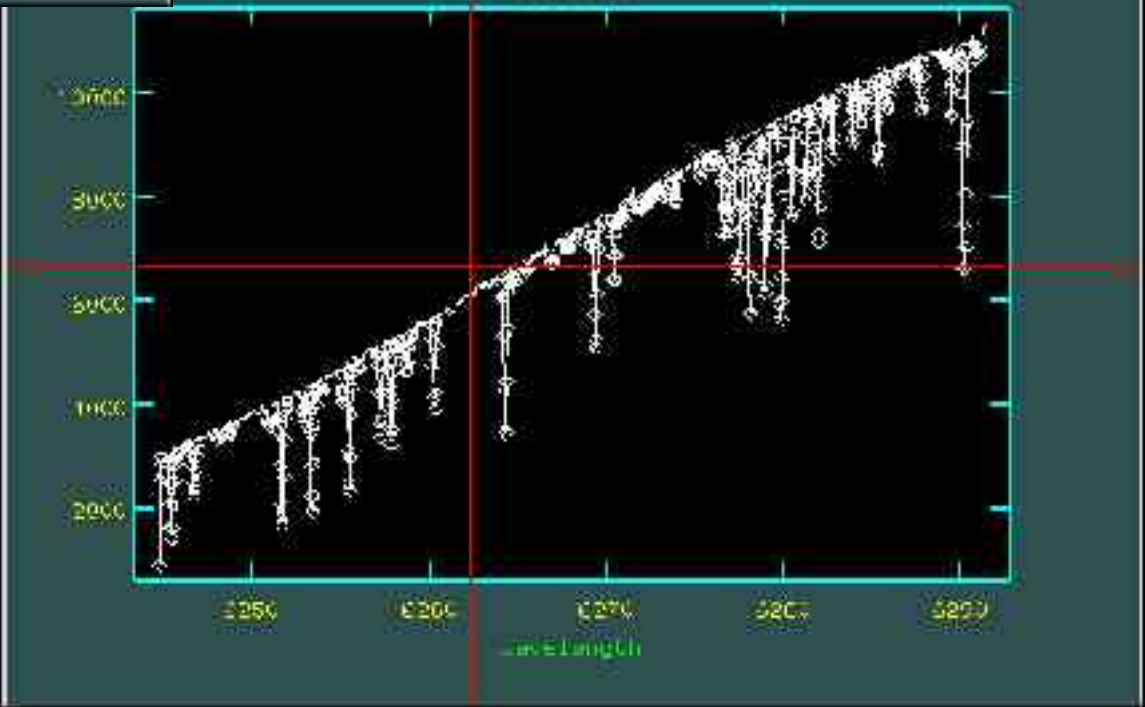
```

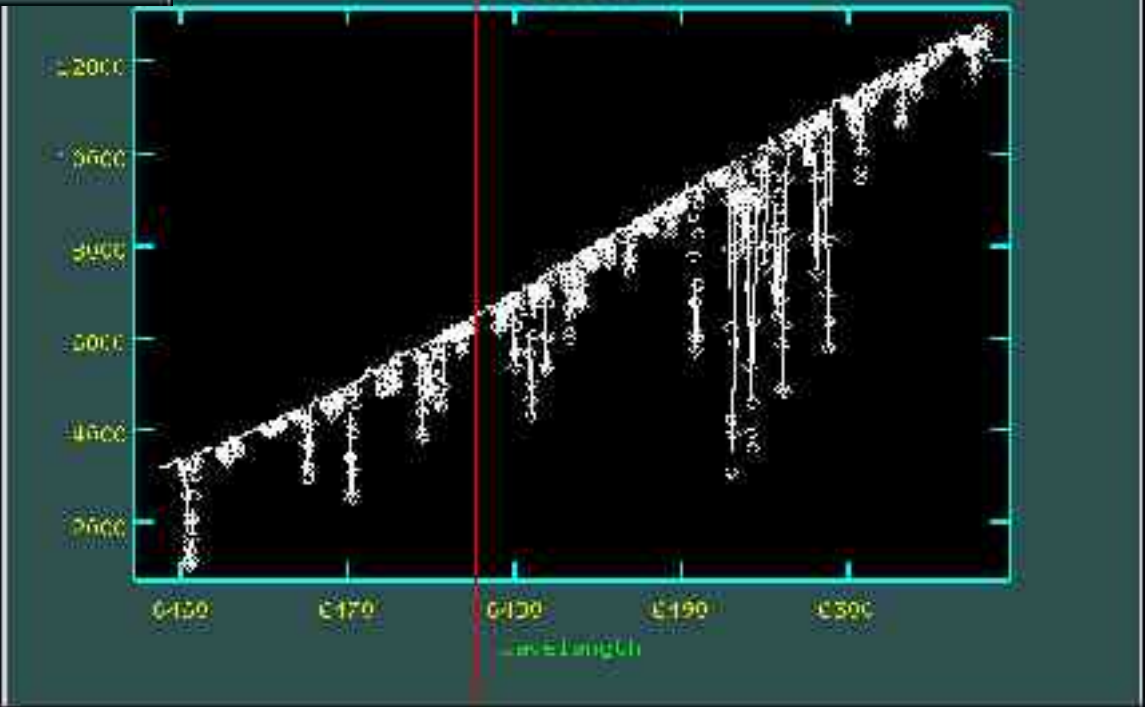
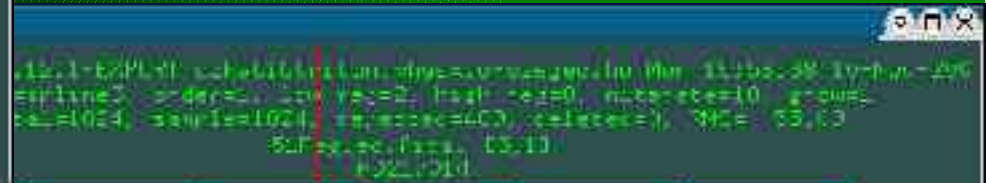
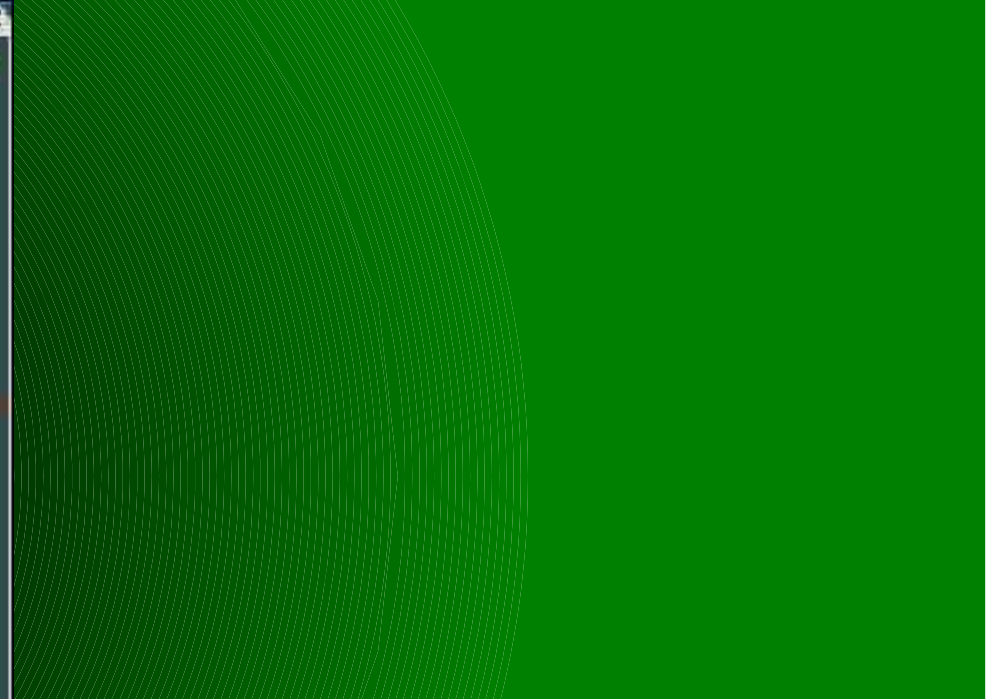
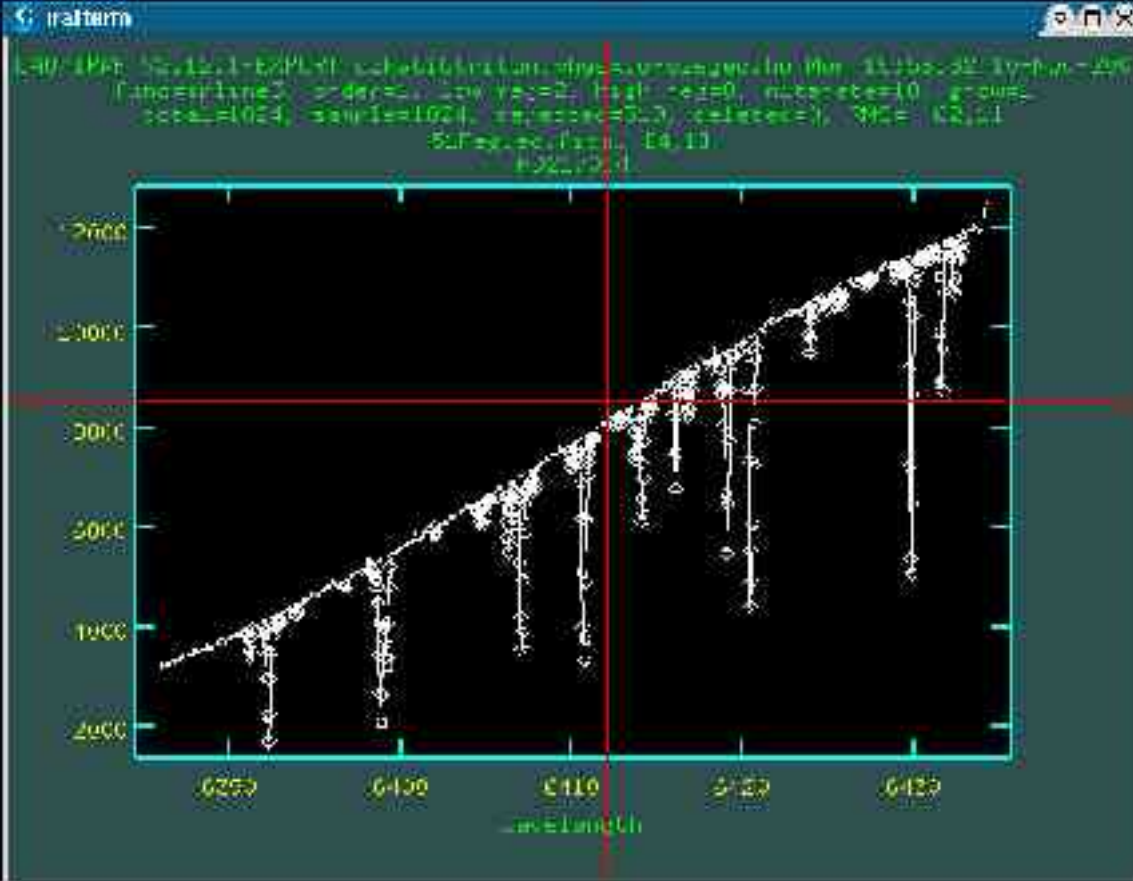


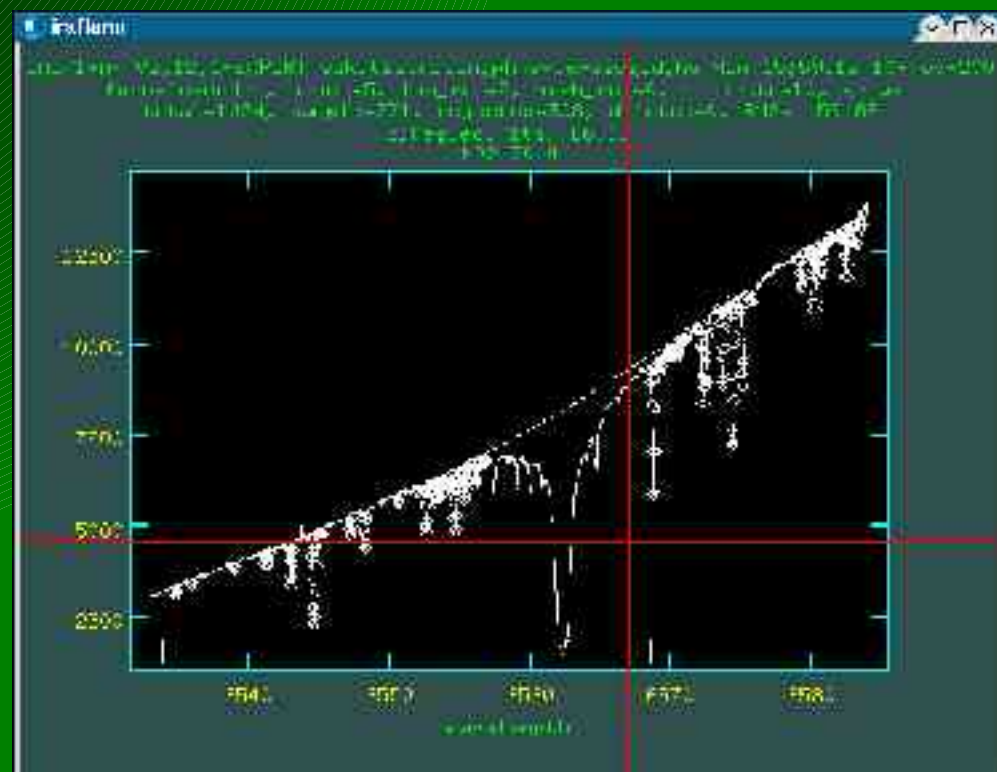
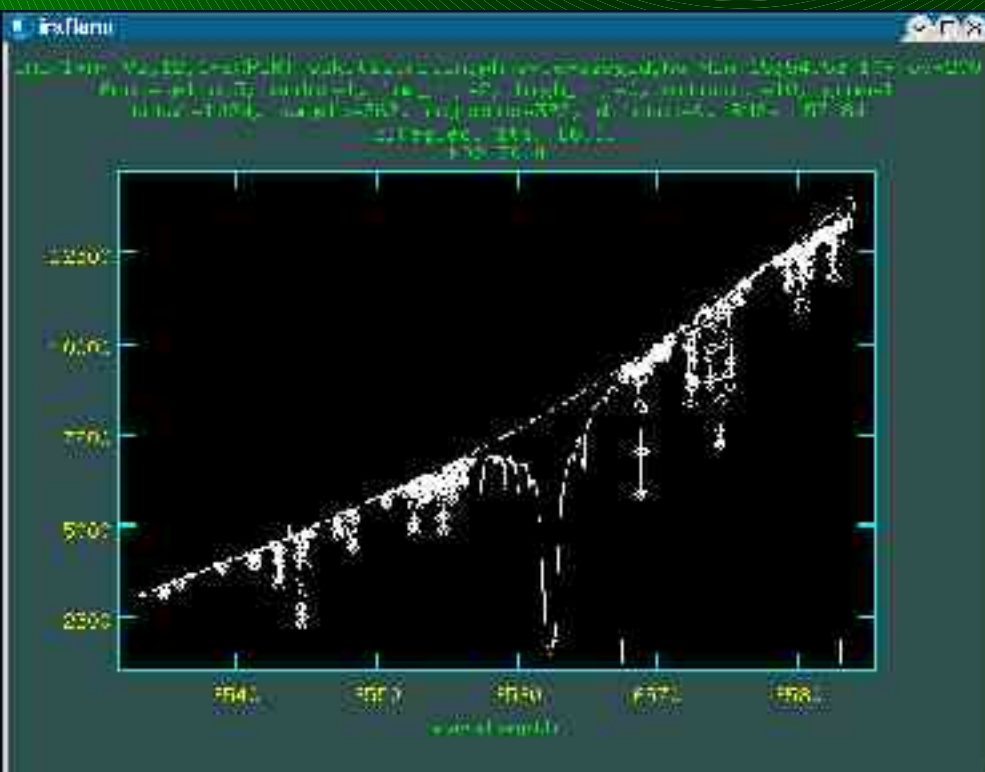
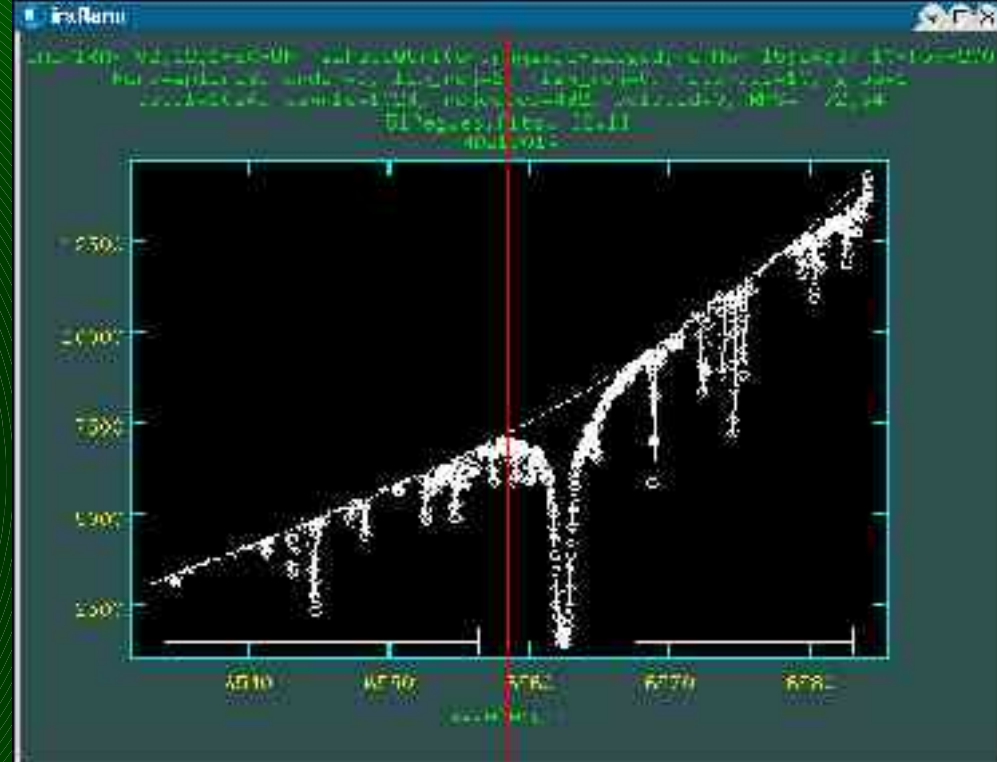
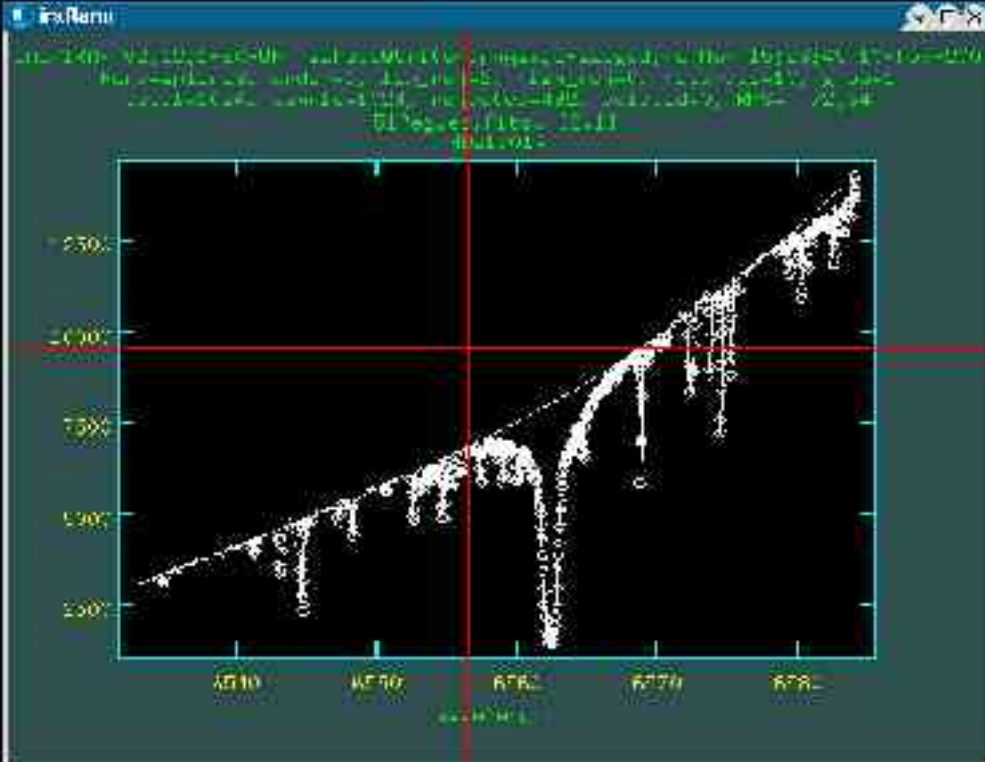
```

12.11-EXPL-1 schellib111un.phys.virologie.uni-erlangen.de Mon 11:56:12 17th Jul 2006
[and:plane3 >der=, low res=2, high res=0, niter=10, groups=
  1000=1024, samples=1024, n_spectra=440, delete=], 395 13.37
  50Fex.ec.fax, 02.13
  EXPL011

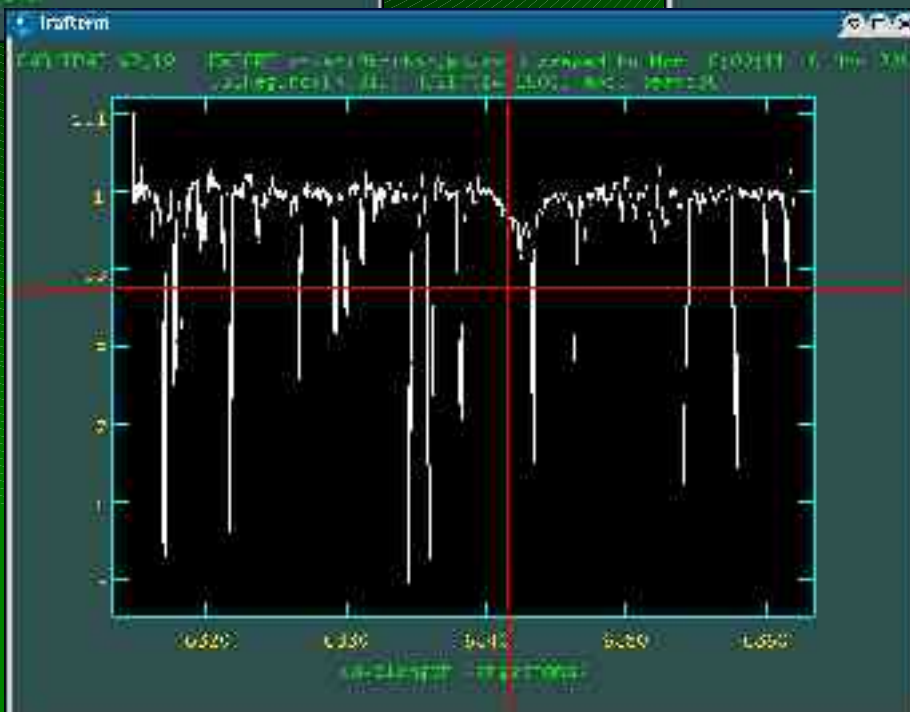
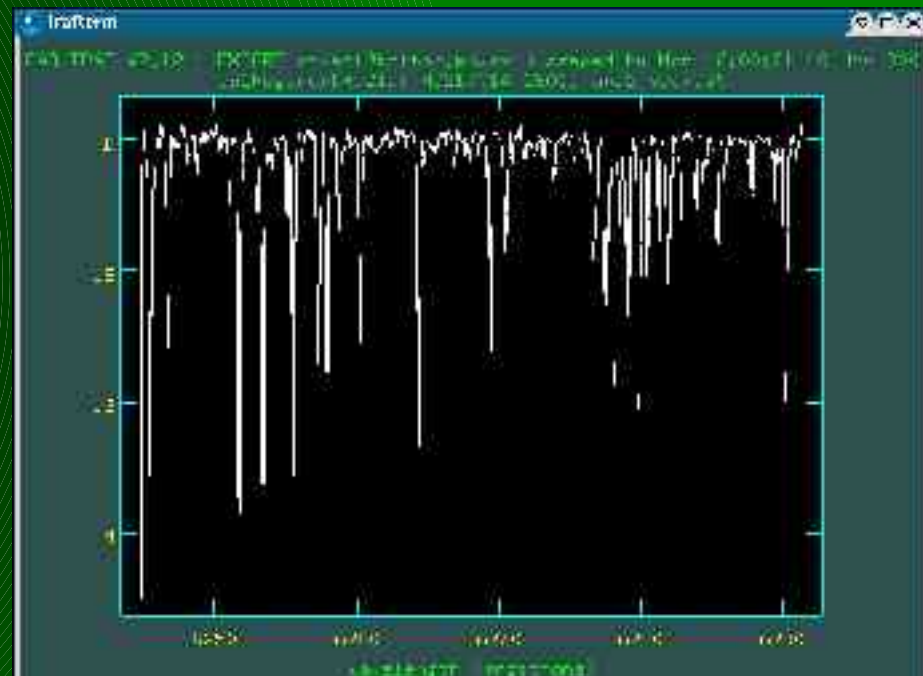
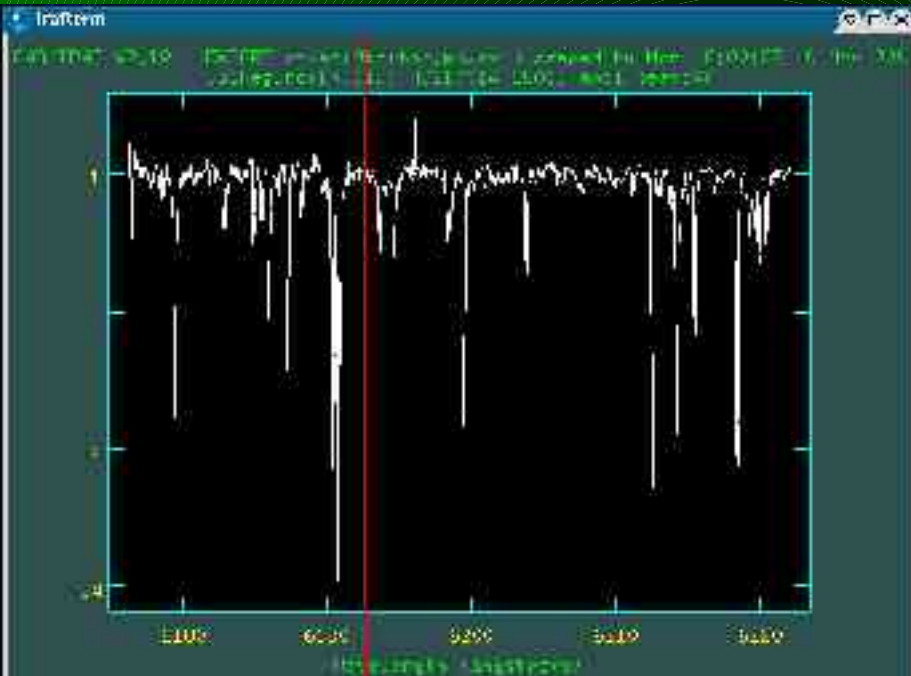
```







Kontinuum normálás



Kontinuum normálás

