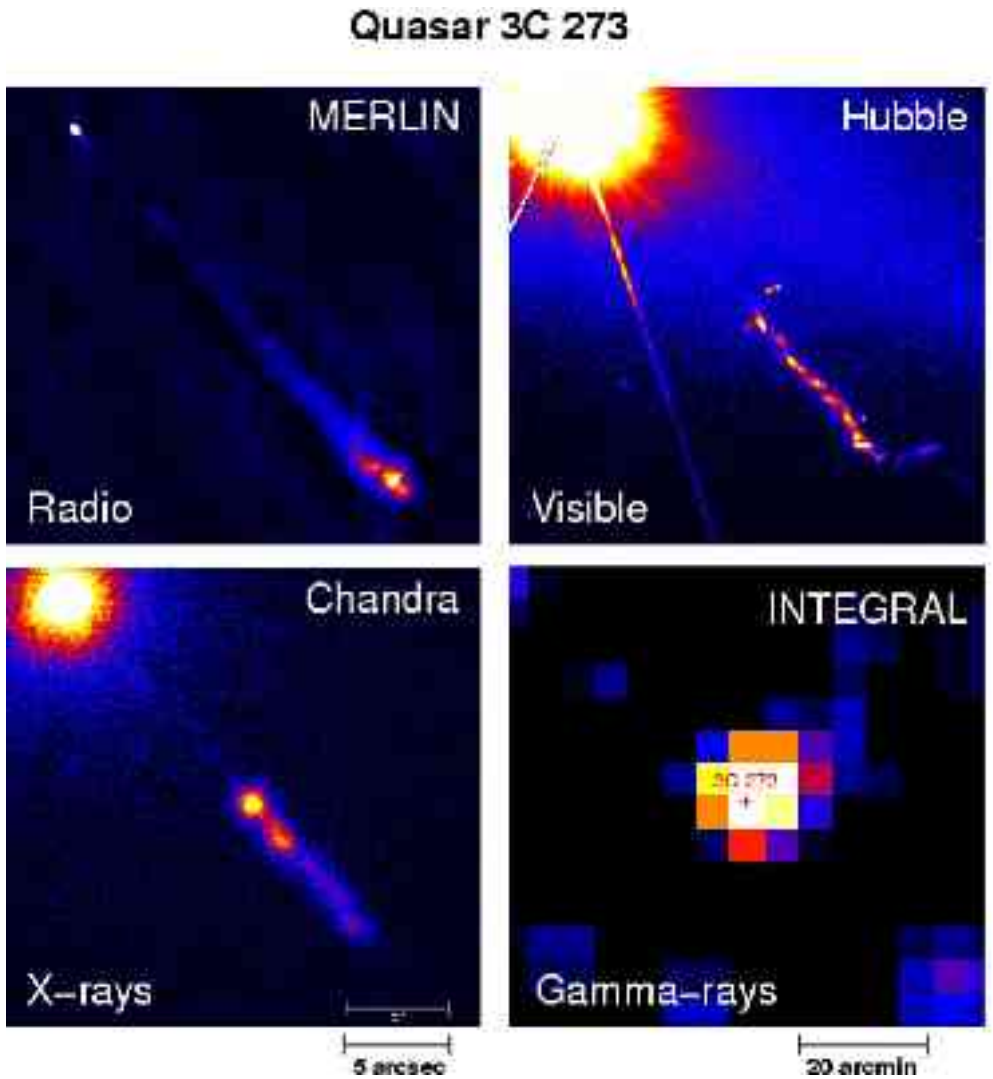
IBIS/ISGRI Analysis of faint source 3C273

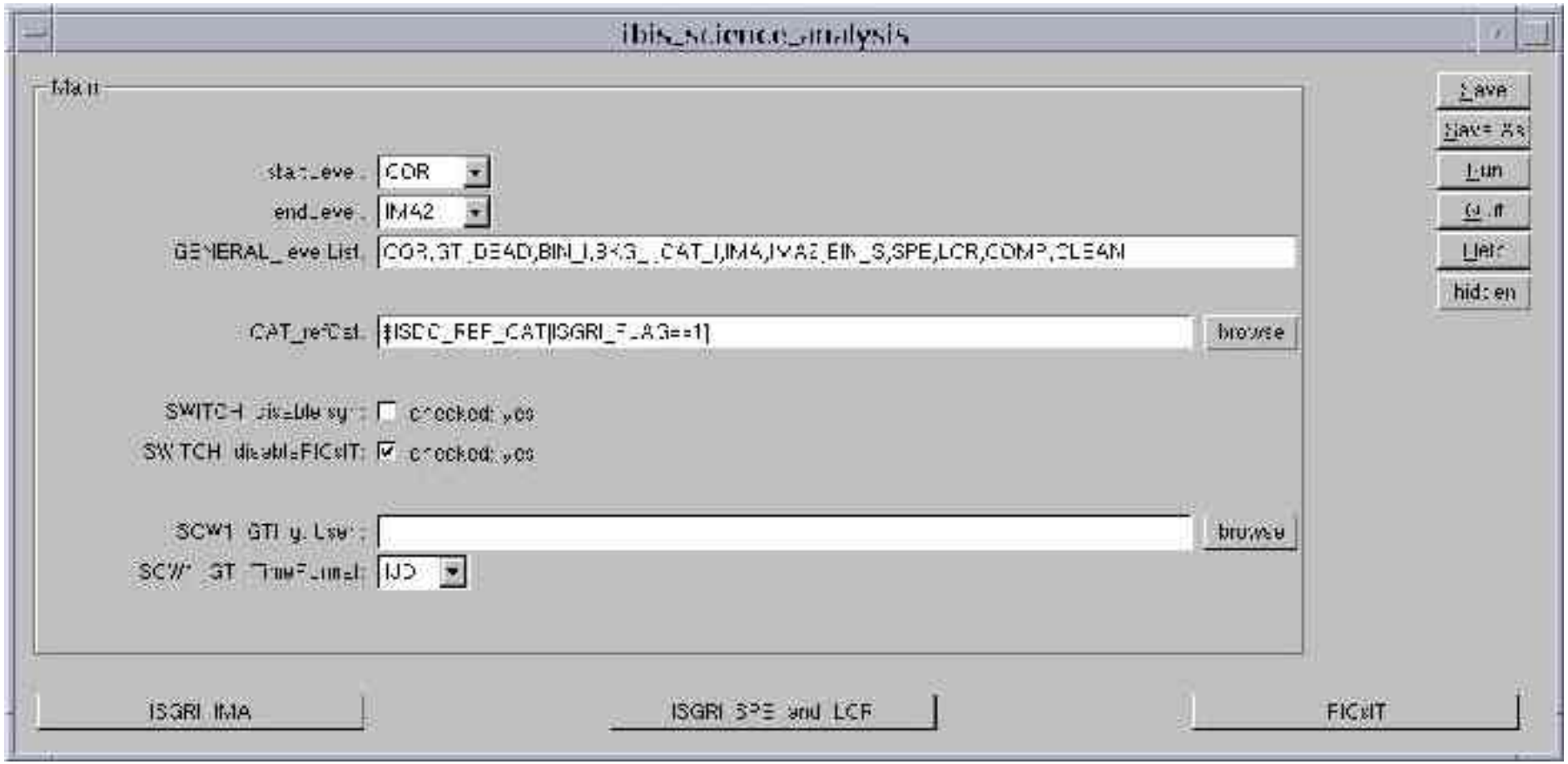


Analysis methodology

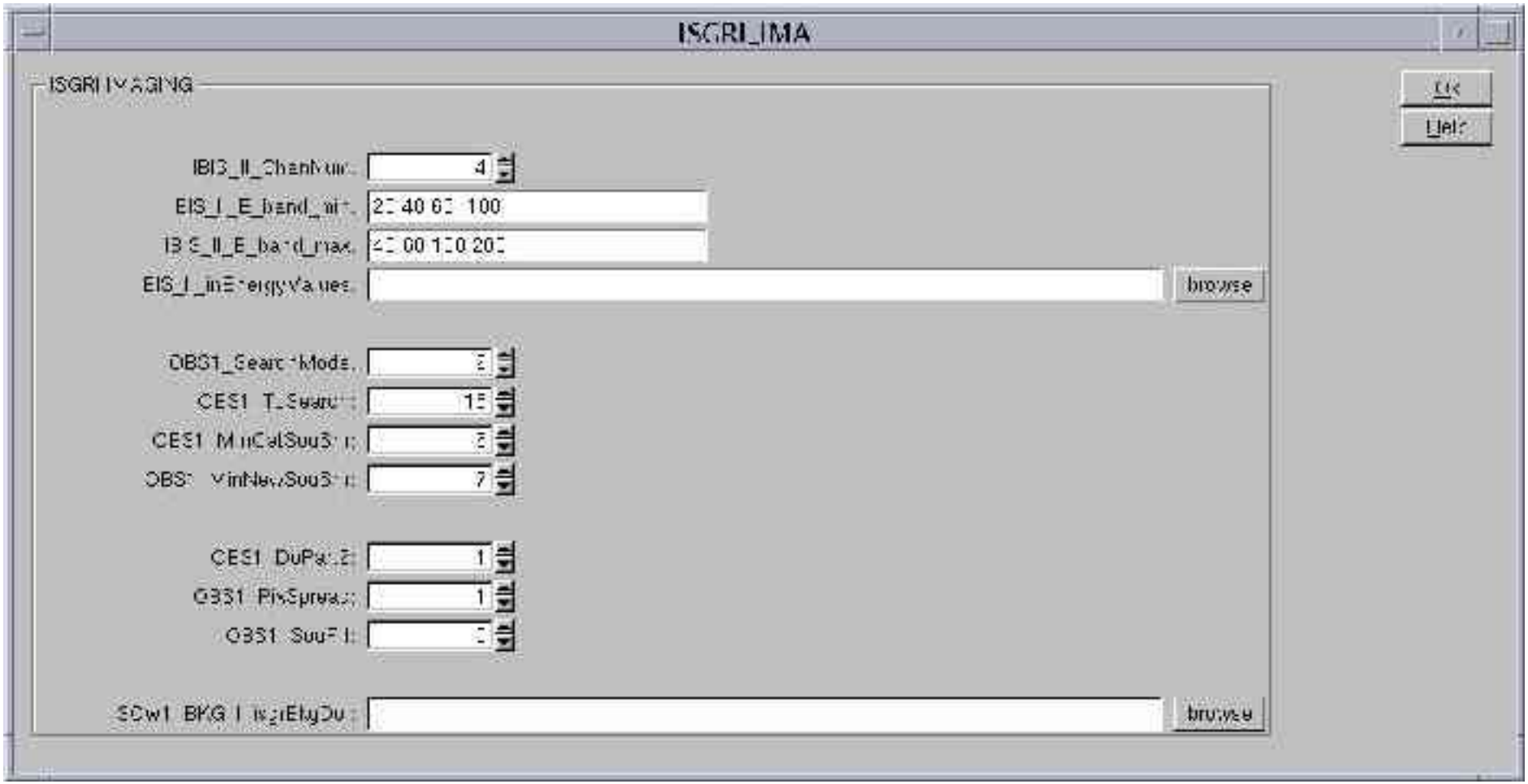
- Data Download
- List of science window
  - scw/0028/002800070010.001/swg.fits[1]
  - scw/0028/002800070020.001/swg.fits[1]
  - scw/0028/002800080010.001/swg.fits[1]
- OG creation
  - og_create idxSwg=scw.lst ogid=3C273 baseDir="./" instrument=IBIS
  - cd obs/3C273
- Image step: Mosaic: check of the sources in the FOV
- Spectra extraction

Analysis Launch

ibis_science_analysis

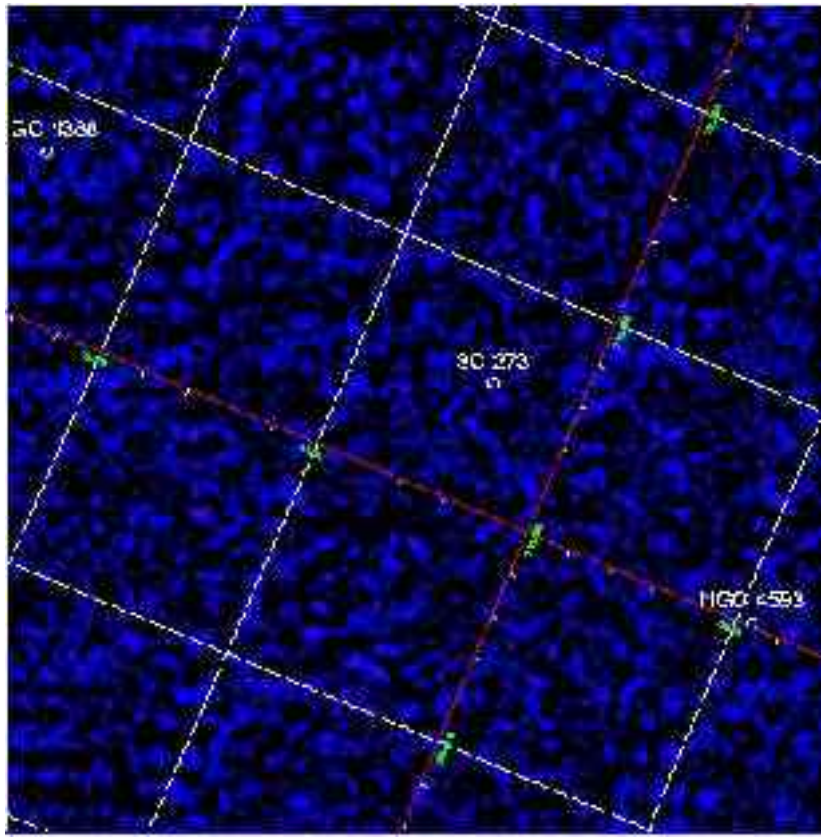


Analysis Launch 2

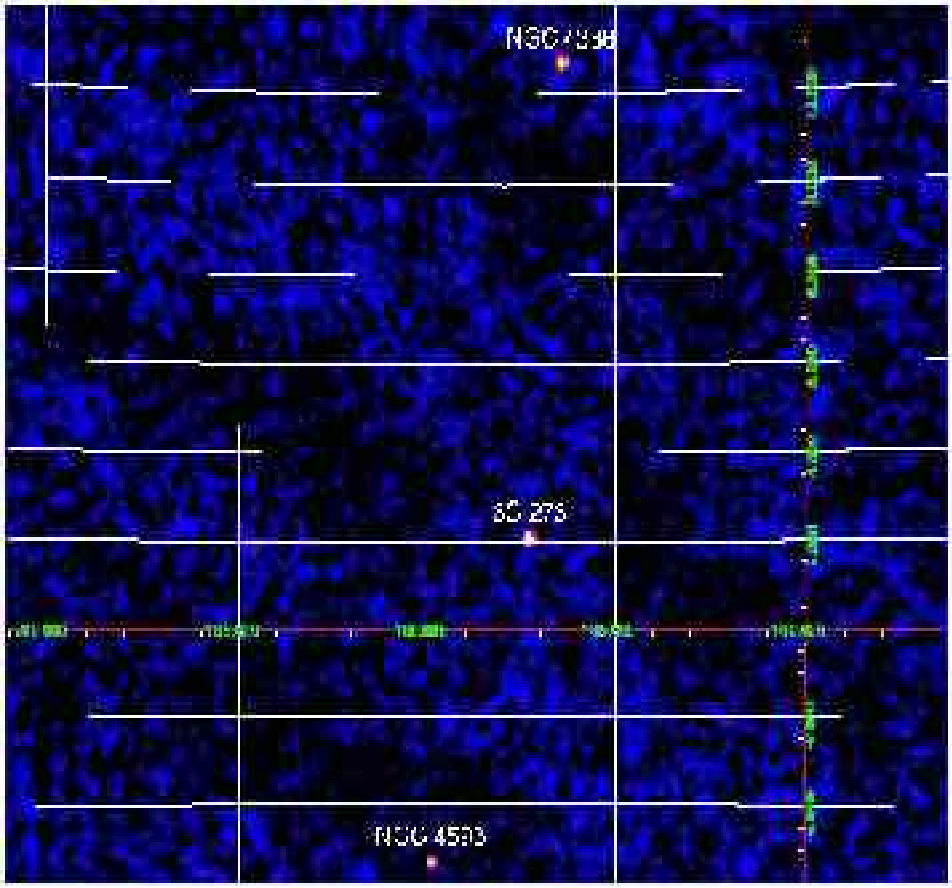


Results of the Image step

- cat2ds9 isgri_mosa_res.fits\[2] found.reg
- ds9 isgri_mosa_ima.fits\[4] region found.reg



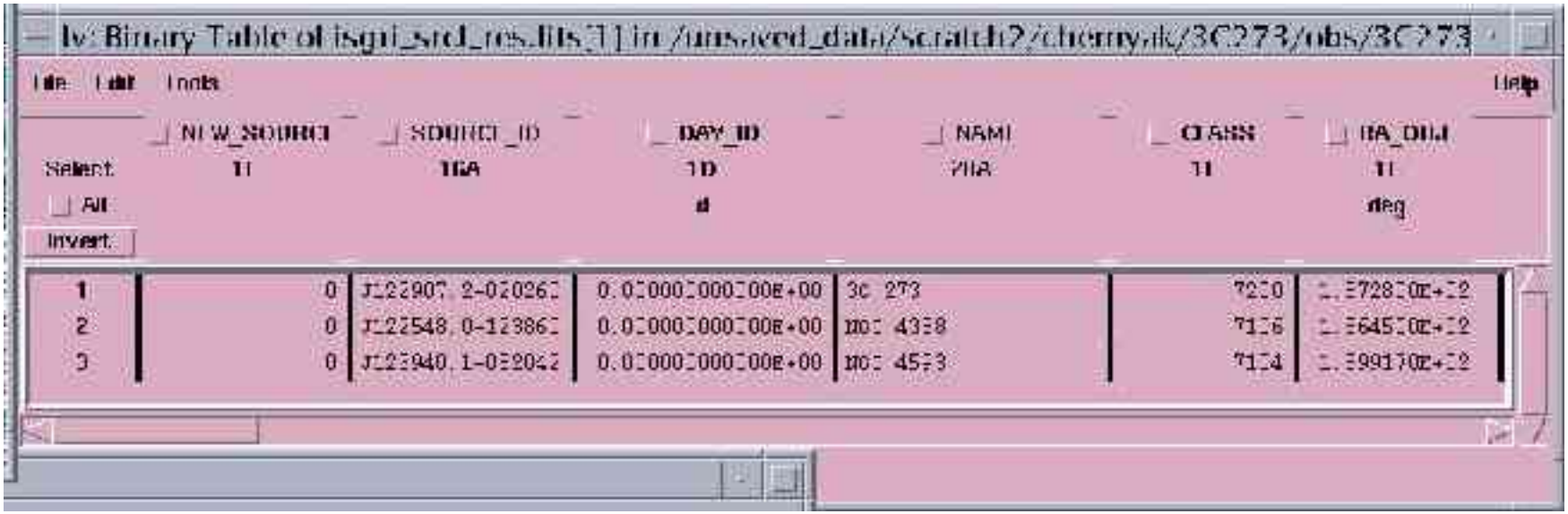
- isgri_sky_ima.fits[4]



- isgri_mosa_ima.fits[4]

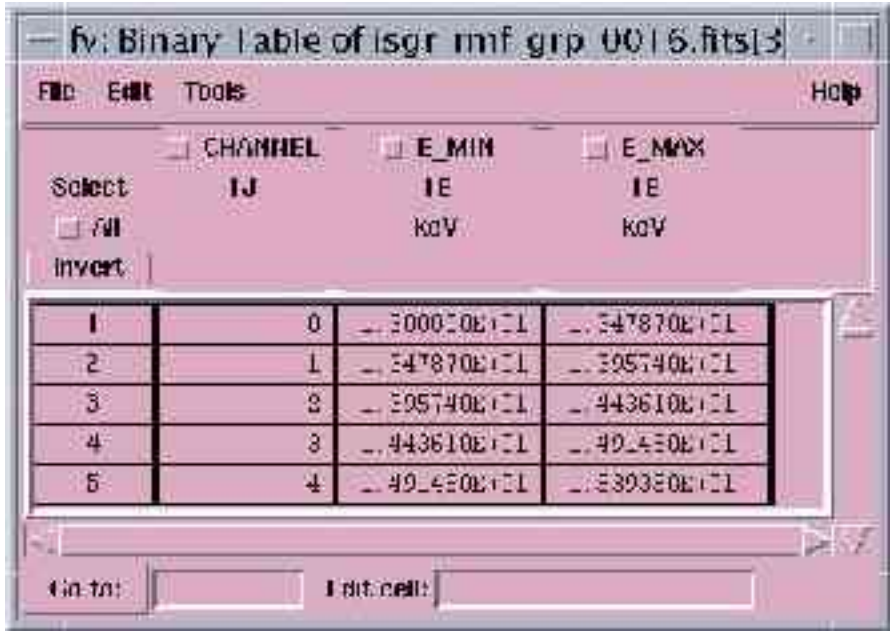
Catalog for spectral step

- fv isgri_srcl_res.fits



Energy bins for spectral step

- fv ic/ibis/rsp/isgr_rmf_grp_0016.fits



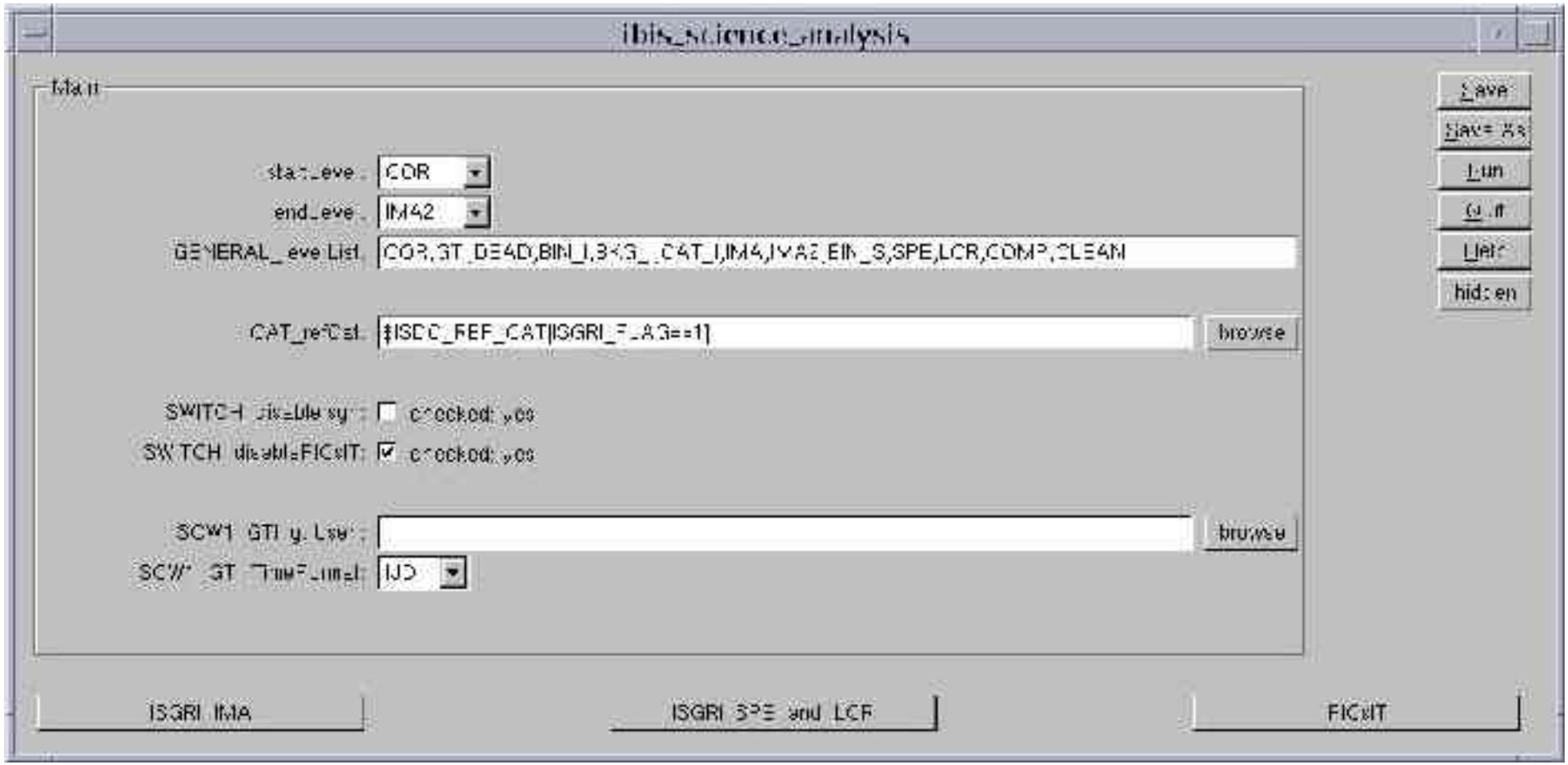
- 3C273.bin

```
0   15   16
16  24    9
25  35   11
    ***
600 2047 -1
```

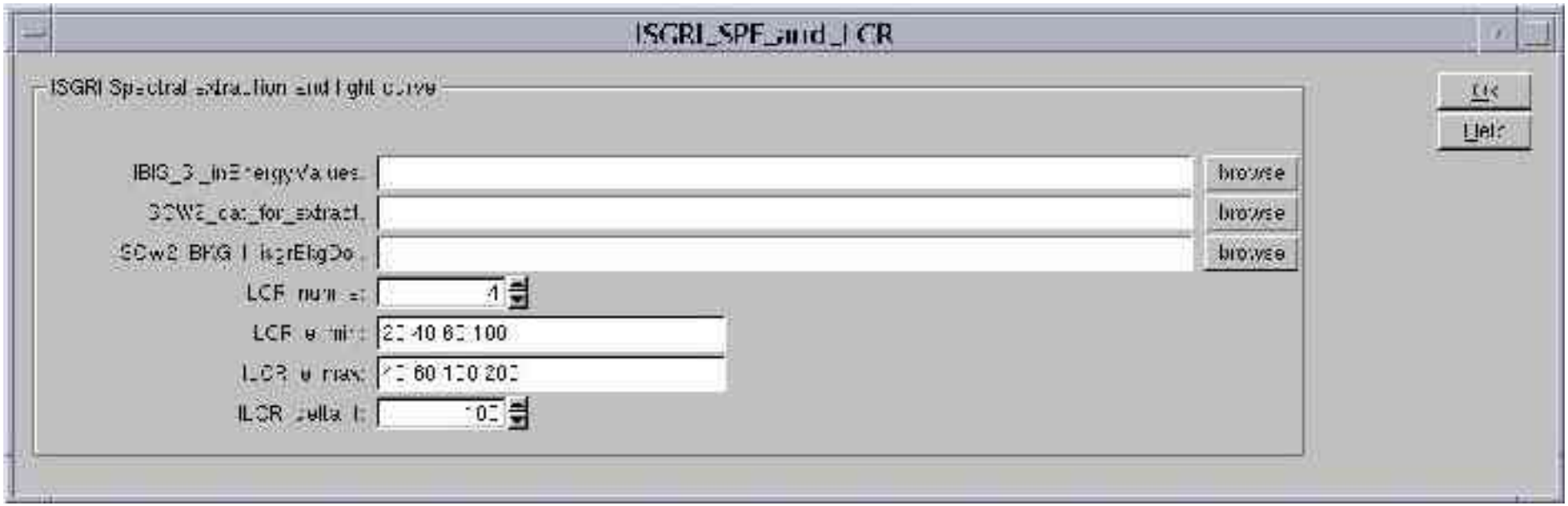
- rbnrmf
  infile="isgr_rmf_grp_0016.fits"
  outfile="3C273-rmf.fits"
  binfile="3C273.bin"

Spectral Extraction

- ibis_science_analysis



Spectral Extraction 2



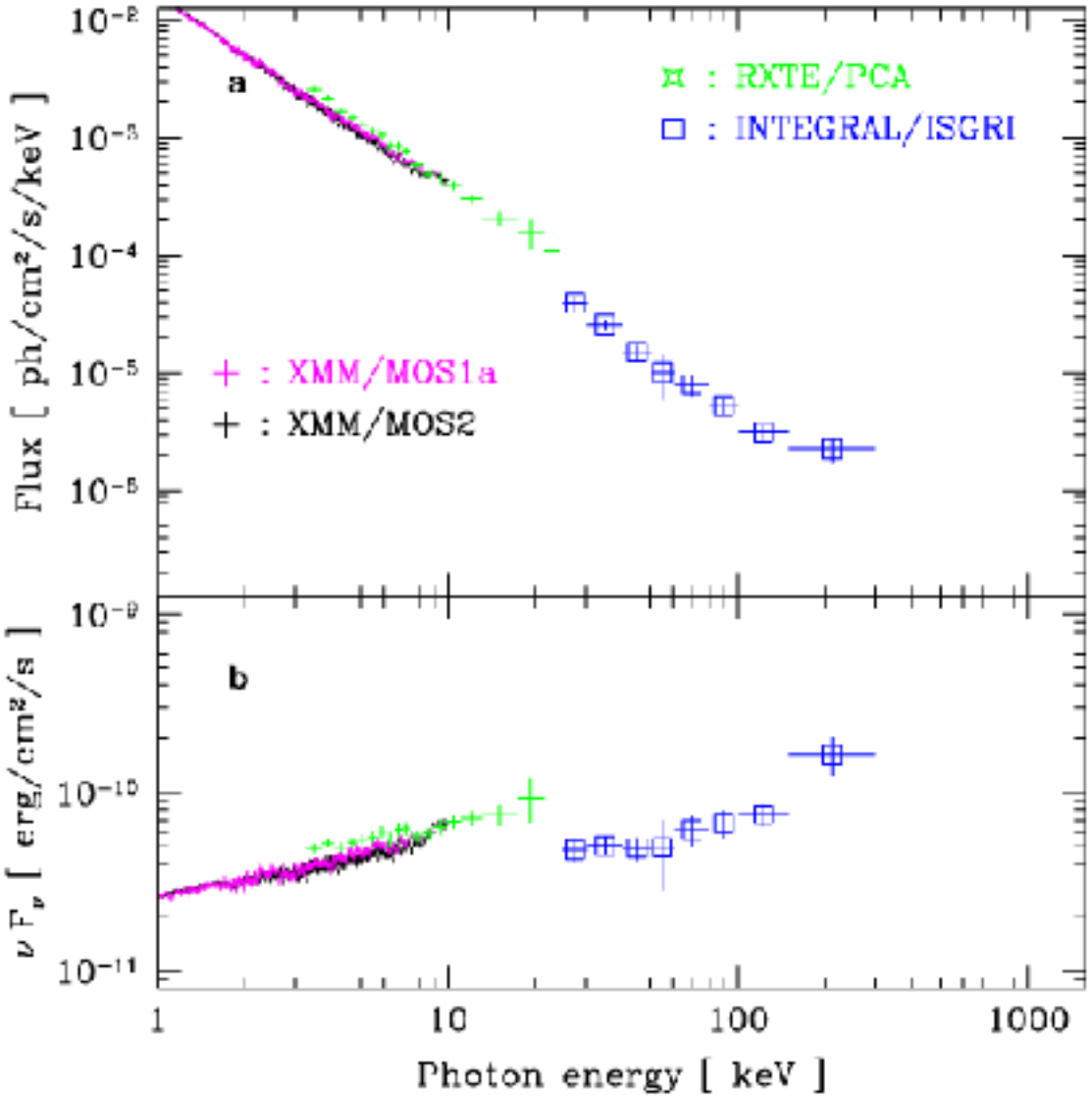
Spectral Extraction

- spe_pick group="og_ibis.fits[1]" source="3C 273" response=../../3C273-rmf.fits ancrfile=../../ic/ibis/rsp/isgr_arf_rsp_0010.fits rootname=3C273
- xspec

```
data 1:1 3C273_sum_pha.fits
data 2:2 3C273_xmm.fits
model const*wabs*power
fit 100
setplot energy
plot ldata
```

Results

"Raw data" - no intercalibration



Results

Intercalibration is taken into account