PACS Photometer:
Photometry and Errors Estimate

Hands-on

NOTE: data are on the webdav in : /PACS/data/photometer/First-Hands-on

Exercise 1:

- download from the webdav the file: SH104_1342219041.tgz
- unzip/untar it
- injest the data in HIPE (hint: use Navigator or getObservation)
- explore the content: observation summary; product levels; visualization

Exercise 2:

- download from the webdav the files: level2_red_alpha_boo.fits.gz/ level2_blue_alpha_boo.fits.gz
- unzip the files
- now open the HIPE script:
  → L3_pointSourceAperturePhotometry_workshop.py

  PACS/scripts/photometer/First-Hands-on

- edit line 181: enter the path where your .fits are located on your computer
- on the same line, at the end of the directory path, enter the name of the file you want to use for doing aperture photometry
- edit line 184: enter the path of the directory where you want the output "statistics file" to be stored
- now run the script…

Exercise 3:

- download from the webdav the files: level2_red_Abell370.fits and PEP_Abell370_min_catalog.txt
- unzip the .fits file
- now open the HIPE script:
  → L3_multiplePointSourceAperturePhotometry_workshop.py

  PACS/scripts/photometer/First-Hands-on

- edit line 184: enter the path where your .fits is located on your computer
- now run the script...
- the script, as it is, produces only 1 .png file (for the last source in the catalog). Modify the script to allow it to produce 1 .png for every source

Exercise 4:

- download from the webdav the file: alpha_boo_2scans.tar
- untar the file
- now open the HIPE script:
  → scanmap_pointsources_PhotProject_workshop.py in

  PACS/scripts/photometer/First-Hands-on

- edit line 154: enter the path where you want to save the results of the processing
- Edit line 198: enter path where you untarred the file
- now run the script…
- inspect the result