

PACS Photometer: Products & Photometry

Hands-on

Data are at :

https://nhscsci.ipac.caltech.edu/workshop/Workshop_Oct2014/General/data/

Scripts are at:

https://nhscsci.ipac.caltech.edu/workshop/Workshop_Oct2014/General/scripts

Exercise 1:

- download from the webdav the file: SH104_1342219041_spg11.tgz
- unzip/untar them
- inject the data in HIPE (hint: use Navigator or getObservation)
- explore the content: observation summary; product levels; visualization

Note: if you use “getObservation” to inject the unzipped/untarred file, use:

```
HIPE > obs = getObservation(path = “/pathToLocationUntarredDir/”)
```

Exercise 2:

- download from the webdav the file: SH104_1342219040_spg12.tgz
- download from the webdav the file: SH104_1342219041_spg12.tgz
- unzip/untar them
- inject the data in HIPE (hint: use Navigator or getObservation)
- explore the content: observation summary; product levels; visualization

Note: if you use “getObservation” to inject the unzipped/untarred file, use:

```
HIPE > obs = getObservation(path =“/pathToLocationUntarredDir/”)
```

Exercise 3:

- for each of the observations from Exercise 1 & 2 that you have loaded into HIPE, check which calibration # has been used and compare with the latest available calibration

Exercise 4:

- download from the webdav the files: `level2_red_alpha_boo.fits.gz/level2_blue_alpha_boo.fits.gz`
- open the HIPE script:
 - `L3_pointSourceAperturePhotometry_workshop.py`
- edit line 96: enter the path where your `.fits` are located on your computer
- run the script & inspect the result
- run the “blue” camera