

# PACS Spectrometer: Products

## Hands-on

Data are at :

[https://nhscsci.ipac.caltech.edu/workshop/Workshop\\_Oct2014/General/data/](https://nhscsci.ipac.caltech.edu/workshop/Workshop_Oct2014/General/data/)

# Exercise 1:

- download from the webdav the file: 1342252258.tgz
- unzip/untar them
- inject the data in HIPE (hint: use Navigator or getObservation)
- explore the content and answer the following questions: is it chopped or unchopped ? How many nod cycles does it have ? Is it raster or pointed ?

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

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

## Exercise 2:

- using the same data (i.e. 1342252258)
- visualize a rebinned cube with the Spectrum Explorer (red, blue)
- visualize a projected cube with the Spectrum Explorer (red, blue)
- open a projected cube and fit a line to the spectrum