SPIRE Day

team, goals, schedule, logistics

Bernhard Schulz
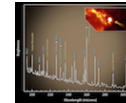NHSC/IPAC

Your SPIRE Workshop Team

NHSC-SPIRE / IPAC

Bernhard Schulz

Nanyao Lu

Dave Shupe
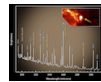
Joan Xie
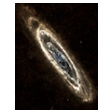
Kevin Xu

Lijun Zhang

Expertise Legend:

Photometer

Spectrometer

Software

Goals

- ## At the end of the day you should be able to:

    - Query the Herschel Science Archive (HSA)
    - Retrieve SPIRE observations
    - Know how to do photometry of sources or lines observed with SPIRE
    - Know about effects that impact data quality
    - Be able to run a SPIRE data reprocessing script
    - Know where to go from here

Agenda of the Day

- Note, times are approximate and may change.

Times	Min.	Session	Type	Topics	Presenter
08:00	30	**Breakfast**			
08:30	5	Introduction	Talk	Goals, schedule, logistics	Bernhard
08:05	25	Preparing HIPE for SPIRE work	Talk + hands-on	Cal tree, SPIA setup, sample datasets, script for checking	Dave
09:00	20	Photometer pipelines	Talk	Pipeline Overview, Map-making	Kevin
09:20	30	Photometer data viewing	Follow-along demo	Get data from HSA, look at products, viewers	Bernhard
09:50	30	Point source photometry	Talk	Point source calibration, beam profile, point source tools/extractors	Kevin
10:20	30	Photometer extended source fluxes	Talk	Extended fluxes and color correction	Bernhard
10:50	20	**Coffee**			
11:10	30	FTS pipelines	Talk	Pipeline overview	Nanyao
11:40	20	Spectrometer data viewing	Follow-along demo	Get data from HSA, look at products, viewers	Nanyao
12:00	30	FTS line photometry	Talk + demo	Line fitting	Nanyao
12:30	60	**Lunch**			
13:30	30	Science Talk	Talk	Talk about a SPIRE related science topic	Marco Viero
14:00	25	Photometer issues with data	Talk	Stripes, glitches, cooler burp, map makers	Kevin
14:25	25	Photometer data reprocessing	Talk + demo	User reprocessing scripts, useful scripts (incl. BoloFinder), SPIA	Bernhard
14:50	40	Spectrometer issues with data	Talk	Calibration updates, user data reprocessing and other issues	Nanyao
15:30	20	**Coffee**			
15:50	20	FTS: Point source mode obs.	Talk + demo	Intro. to useful scripts: Background subtraction	Nanyao
16:10	30	FTS: Mapping mode obs.	Talk + demo	Intro. to spectral cube visualization and analysis in HIPE	Nanyao
16:40	30	Practice session	Hands-on	Both Phot and Spec, provide exercises for the sample data	Kevin & Nanyao
17:10		**End of day**			

What will we work with?

- Observations imported from tarballs

- HIPE Software V11.0.1 released version

- User and SPG scripts within HIPE

- Interactive analysis plugin SPIA 1.11 for photometer

- Additional special purpose scripts

After the Workshop

- User Manuals / Documentation
- HSC Webpages
- NHSC-SPIRE Homepage
- NHSC Helpdesk
- NHSC Workshops / Webinars
- Phone / Videocon / Visits at NHSC