HIPE, HIPE, HOORA

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Herschel Data Processing overview

- The Herschel Data Processing system combines data retrieval, pipeline execution, product quality assessment and interactive scientific analysis in one single environment
- erschel Data Processing software is coded in Java/Jython to be license free and portable reent operating systems. Currently Linux, MacOS X ("Leopard and Snow Leopard") and ws ("XP and Vista") are supported
- e Herschel Data Processing software is available under the GNU lesser general public license
- Herschel Science Centre (ESA), the Instrument Control Centres (HIFI, PACS and SPIRE) and NHSC jointly manage and contribute to the Herschel Data Processing System

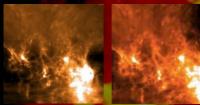
Current status of Herschel Data Processing

- HIPE 3 is und

Examples of the capabilities of the Herschel Data Processing System

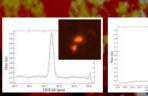
SPIRE Parallel Mode

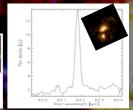
PCC249, credits M. Juvela, V.M. Pelkonen and Cold Cores Con



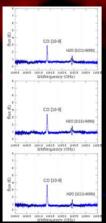


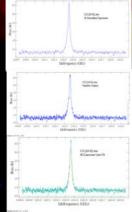
PACS Line Spectroscopy





HIFI Mapping DBS Raster



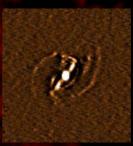


Pipeline Level 2 Product

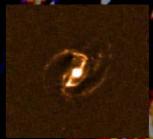
Quick HIPE Reduction

PACS Photometer Sc

NGC 1097, credits R. Kennicut



Pipeline Level 2 Product



Planned Improvements

- Updater to inform users when a new HIPE version is available
- Speed-up delivery cycle from code-freeze to release to the
- Reduction of memory imprint and product size for PACS
- Mosaic generation using cross-scans
- Automatic generation of scientifically meaningful SPIRE FTS
- Improved standing wave removal and spurs detection for HIFI
- Refinement of instrument algorithms and calibration
- · Improving the user friendliness of HIPE

How to download, learn more and contribute to HIPE

- Download HIPE from http://herschel.esac.esa.int/HIPE_download.shtml
- Learn more about Herschel Data Processing in http://herschel.esac.esa.int/Data_Processing.shtml
- Join the Herschel Data Processing Interest lists
 - PACS Photometry (point source)
 - SPIRE Photometry (point source and small maps)
 - Large maps and point source extraction for PACS and SPIRE
 - PACS Spectroscopy
 - SPIRE Spectroscopy
 - Spectral maps for PACS, SPIRE and HIFI
 - HIFI Point sources and spectral scan
 - HIPE General
 - HIPE Contribution









