

The Herschel Data Processing System – an advanced framework for advanced signal processing algorithms

Stephan Ott on behalf of the Herschel Data Processing Development Team

- **Herschel extended data processing was funded**
 - to provide an integrated, easy to use, license free, well tested and documented Interactive Analysis system to the astronomical community
 - to populate the Herschel Science Archive with systematically processed and quality controlled data products up to a level where scientific analysis can be performed
- **Herschel extended data processing is coded in Java and Jython**
- **The pipelines that automatically generate data products are a subset of the Interactive Analysis system**
- **Herschel data processing could support already Instrument Level Test data analysis**
- **Work on extended data processing functionality is in full swing**
- **Work on instrument pipelines is progressing well**
- **Herschel data processing is an exciting state-of-the-art software development project. The Herschel Interactive Processing Environment HIPE provides both a GUI and script driven end-user environment**