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TWiki > Public Web > HpdpFtsBkgs (2017-09-13, IvanV)

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## Work on Herschel FTS highly processed data products (HPDP)

Herschel's Fourier Transform Spectrometer (FTS) observed thousands of sources during the 4 year lifetime of the observatory. The targets of these observations have significant emission in the far-infrared (FIR, 200-700  $\mu\text{m}$ ) and included Solar System bodies, Galactic regions with cold dust, and nearby and extremely distant galaxies at the edge of the visible Universe. The Herschel Science Archive will contain the final legacy spectra observed with the FTS and the derivative spectral features catalogue, all freely available for astronomical research.

The goal of this project is to work with a set of SPIRE FTS observations and spectra in the Herschel Science Archive to improve their legacy values by correcting for all the imperfections and effects introduced by the instruments and the telescope. This will be done using tools for background emission subtraction and semi-extended source and pointing offset correction.

This work includes all sparse point mode data which has been processed to level-2, excluding Dark Sky observations and the targets studied in [R.Hopwood et al. 2015](#). These last ones are included in the tables created after applying the Background Subtraction Script but they are labeled as 'Skip. Calibration target' and are not processed further in the project. These are available as HPDP in [this page](#).

The tables used in the works are split into different pages for convenience:

- [Page1](#)
- [Page2](#)
- [Page3](#)
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Those sources studied in [R.Hopwood et al. 2015](#) and that were not processed further in the project are listed in the page below.

- [Skipped Targets](#), their HPDP versions are available in [this page](#).

Once the selections have been made, the observations will be included in the following pages under their category:

- [Skip](#)
- [Good](#)
- [Extended Source](#)
- [Semi - Extended Source](#)
- [Pointing Offset](#)
- [Problem cases](#)

List of observation IDs and final selections:

[OBSID\\_CLASS.txt](#)



Scripts:

- [backgroundSubtract.py.txt](#): Background subtraction script

--  [Ivan V - 2015-11-05](#)

## Comments

### Attachments

I	Attachment	History	Action	Size	Date	Who	Comment
	<a href="#">OBSID_CLASS.txt</a>	r1	<a href="#">manage</a>	18.5 K	2016-03-23 - 16:14	<a href="#">LauraSusanaAlvarezMera</a>	
	<a href="#">backgroundSubtract.py.txt</a>	r1	<a href="#">manage</a>	8.3 K	2016-05-23 - 12:02	<a href="#">IvanV</a>	Background subtraction script

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