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Data processing of APEX data: FAQs

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Data processing of APEX data: Frequently asked questions

- **Are there any pipelines available to reduce APEX heterodyne data (instruments SHFI, FLASH, CHAMP+, SEPIA and PI230)?**

Answer: The .TAR file contains a Reduction/ directory, which includes a CLASS reduction script (provided on a best effort basis). This script can be used as a starting point for a more careful data reduction.

- **Are there any pipelines available to reduce APEX bolometer data (instruments LABOCA, SABOCA & Artemis)?**

Answer: There are several software packages that can reduce the APEX bolometer data: BoA, CRUSH and IDL (only for Artemis). All of these assume the files have their original APEX filenames instead of the archive filenames. Please see the [attached instructions](#) on how to obtain and [rename](#) APEX bolometer files from the ESO archive back to their original file names.

The .TAR file contains a Reduction/ directory, which includes a CRUSH data reduction script (provided on a best effort basis). This script can be used as a starting point for a more careful data reduction. A more detailed data reduction, in particular for faint or very extended sources can be done in BoA. Detailed instructions, including a dedicated cookbook on reducing Artemis data is available at

http://www.apex-telescope.org/instruments/pi/artemis/data_reduction/.

To reduce photometric (wobbler on-off) data taken with LABOCA or SABOCA using BoA, a detailed cookbook can be found at

<http://www.apex-telescope.org/bolometer/laboca/reduction/BoA-woo.html>.

- **Where can I find calibration files for the APEX bolometer instruments LABOCA and SABOCA?**

Answer: The opacities, calibration factors and array parameters for LABOCA and SABOCA can be found at

<http://www.apex-telescope.org/bolometer/laboca/calibration/>

and <http://www.apex-telescope.org/bolometer/saboca/calibration/>.

