P32Tools: Reduction of ISOPHOT P32 Oversampled Maps

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During the ISO mission, the ISOPHOT instrument has collected more than 1100 observations in oversampled mapping mode (AOT PHT32) in the wavelength range of 45 to 240 microns. The observations comprise mapping of small and large extended regions, but also faint point sources. PHT32 observations are affected by strong signal transients due to flux changes generated by the relatively fast chopper movement. A program to correct for these effects, described in the poster by Tuffs & Gabriel, was developed at MPIKernphysik (Heidelberg), supported by the ISO Data Centre at VILSPA. This was integrated in the ISOPHOT Interactive Analysis (PIA) via a graphical user interface (GUI), which was developed at IPAC/Caltech in collaboration with VILSPA, so that most aspects of the processing can be addressed in a coherent and user friendly environment. The resulting package "P32TOOLS" was introduced to the user community at three hands-on workshops on PHT32 processing held in spring 2001. The hands-on experience from these workshops helped to further improve the package. The resulting proceedings include both, technical lectures and science papers illustrating applications of the new algorithm. In our poster we will present an overview of the functionalities of the new software, including the GUI, the underlying algorithms and relevant calibration issues.