IMAGER: an interferometric software to image 100 000-channel datasets with NOEMA and ALMA

Abstract:

IMAGER is an interferometric imaging package in the GILDAS environment, tailored for usage simplicity and efficiency for multi-spectral data sets. It is optimised for ALMA and NOEMA data sets. Efficiency is obtained through Parallel programming and extensive use of Memory. IMAGER comes with a powerful PIPELINE, which simplifies multiple spectral line processing. Recent developments include a full treatment of polarisation and a self-calibration capability extended to the case of large mosaics. IMAGER is distributed (with a complete documentation, tutorials, and online help facility) as a standalone precompiled LINUX container, and through a MacPorts package. IMAGER is developed and maintained in the framework of the Service National d'Observation of INSU "Radioastronomie millimétrique and sub-millimétrique" at OASU/LAB in Bordeaux.