

make_rebinning_plus

This program applies a spectral re-binning in a data cube. In this process, the final number of spectra pixels will be equal to the initial number divided by an integer number. For the correct execution of this program, it's necessary that the initial data cube have a header containing the parameters "CRVAL3", "CRPIX3" and "CDELTA3" (related to the wavelength calibration). If that is not the case, then, these parameters can be added to the header using the program "header_correct_plus". The data cube generated by the program "make_rebinning_plus" will also have a header containing these three parameters. The input parameters for this program are:

cube: name of the data cube (full path) in which the re-binning process will be applied.

reducefactor: integer number by which the initial number of spectra pixels of the data cube will be divided. Therefore, if, initially, the data cube has m spectral pixels, then, after the re-binning process, it will have $m/\text{reducefactor}$ spectral pixels.

extension: extension of the data cube that will be used in the re-binning process. If the cube has just one extension, then it must be taken the value 0 for this parameter.

logfile: name of the logfile (full path) to be created.

finalcube: name (full path) of the final re-binned data cube.