1 Format Description

For the first processing data product, we choose a fits file format storing the cosmics extracted from a single observation in one binary table.
Each fits file can thus contain cosmics from up to 511 observations.

1.1 Binary Table

The binary table and its columns are:

TRACK A variable length uint32 array of electrons converted to ADU. This encodes the 2D data retrieved from the observation using the `numpy.flatten` routine.

DIM_AL Event length in AL

DIM_AC Event length in AC

LOC_AL AL Coordinate of Track Element [0,0] on the source image

LOC_AC AC Coordinate of Track Element [0,0] on the source image

TRACK_EN Total track energy in electrons

DEL_EN Uncertainty of total track energy in electrons

1.2 Header Keywords

The keywords of the header, aside from automatically generated ones concerning are:

SOURCE Source of observation (SM-SIF, BAM-SIF, BAM-OBS)

CCD_ROW Row of the CCD

FOV FOV (1/2, for all data sources)

ACQTIME Acquisition time [OBMT]

SRC_AL AL dimension of the source image

SRC_AC AC dimension of the source image

MASKPIX Number of masked pixels

GAIN CCD gain [e/ADU]