

LAB data and PAON4 new data

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LAB data

Download the LAB data:

<http://cdsarc.u-strasbg.fr/viz-bin/Cat?VIII/76>

Website tool:

<https://www.astro.uni-bonn.de/hisurvey/profile/>

LAB data projecting to healpix pixelisation

Download LAB in healpix in Equatorial and Galactic coordinate:

<https://owncloud.lal.in2p3.fr/public.php?service=files&t=7d33b86ded909f614e834c42d6b48849>



名称 ▲



LAB_gif



labh_3D.fits



labh_healpix_Equatorial.fits



labh_healpix_Galactic.fits



LAB_note.pdf

Header of FITS

Filename: labh_healpix_Equatorial.fits

No.	Name	Type	Cards	Dimensions	Format
0	PRIMARY	PrimaryHDU	4	()	
1	1419.4MHz	BinTableHDU	88	786432R x 1C	[e]
2	1419.5MHz	BinTableHDU	88	786432R x 1C	[e]
3	1419.6MHz	BinTableHDU	88	786432R x 1C	[e]
4	1419.7MHz	BinTableHDU	88	786432R x 1C	[e]
5	1419.8MHz	BinTableHDU	88	786432R x 1C	[e]
6	1419.9MHz	BinTableHDU	88	786432R x 1C	[e]
7	1420.0MHz	BinTableHDU	88	786432R x 1C	[e]
8	1420.1MHz	BinTableHDU	88	786432R x 1C	[e]
9	1420.2MHz	BinTableHDU	88	786432R x 1C	[e]
10	1420.22MHz	BinTableHDU	88	786432R x 1C	[e]
11	1420.24MHz	BinTableHDU	88	786432R x 1C	[e]
12	1420.26MHz	BinTableHDU	88	786432R x 1C	[e]
13	1420.28MHz	BinTableHDU	88	786432R x 1C	[e]
14	1420.3MHz	BinTableHDU	88	786432R x 1C	[e]
15	1420.32MHz	BinTableHDU	88	786432R x 1C	[e]
16	1420.34MHz	BinTableHDU	88	786432R x 1C	[e]
17	1420.36MHz	BinTableHDU	88	786432R x 1C	[e]
18	1420.38MHz	BinTableHDU	88	786432R x 1C	[e]
19	1420.405752MHz	BinTableHDU	88	786432R x 1C	[e]
20	1420.42MHz	BinTableHDU	88	786432R x 1C	[e]
21	1420.44MHz	BinTableHDU	88	786432R x 1C	[e]
22	1420.46MHz	BinTableHDU	88	786432R x 1C	[e]
23	1420.48MHz	BinTableHDU	88	786432R x 1C	[e]
24	1420.5MHz	BinTableHDU	88	786432R x 1C	[e]
25	1420.52MHz	BinTableHDU	88	786432R x 1C	[e]
26	1420.54MHz	BinTableHDU	88	786432R x 1C	[e]
27	1420.56MHz	BinTableHDU	88	786432R x 1C	[e]
28	1420.58MHz	BinTableHDU	88	786432R x 1C	[e]
29	1420.6MHz	BinTableHDU	88	786432R x 1C	[e]
30	1420.7MHz	BinTableHDU	88	786432R x 1C	[e]
31	1420.8MHz	BinTableHDU	88	786432R x 1C	[e]
32	1420.9MHz	BinTableHDU	88	786432R x 1C	[e]
33	1421.0MHz	BinTableHDU	88	786432R x 1C	[e]
34	1421.1MHz	BinTableHDU	88	786432R x 1C	[e]
35	1421.2MHz	BinTableHDU	88	786432R x 1C	[e]
36	1421.3MHz	BinTableHDU	88	786432R x 1C	[e]
37	1421.4MHz	BinTableHDU	88	786432R x 1C	[e]

Out(6):

```
XTENSION= 'BINTABLE'           / binary table extension
BITPIX   =                    8 / array data type
NAXIS    =                    2 / number of array dimensions
NAXIS1   =                    4 / length of dimension 1
NAXIS2   =                   786432 / length of dimension 2
PCOUNT   =                    0 / number of group parameters
GCOUNT   =                    1 / number of groups
TFIELDS  =                    1 / number of table fields
TTYPE1   = '1420.405752MHz'
TFORM1   = 'e'
EXTNAME  = '1420.405752MHz'     / Extension name
CREDATE  = '2015/12/08 16:46:15' / Creation date
FREQ     =                   1420.405752 / MHz
UNIT     = 'K'                  / Brightness temperature
PIXTYPE  = 'HEALPIX'           / HEALPIX pixelisation
ORDERING = 'RING'              / Pixel ordering scheme, RING or NESTED
NSIDE    =                   256 / Resolution parameter for HEALPIX
COLUMN   = 'Each velocities'
BLANKLINA= '*****'
LABHDR   = '*** Below is the header of LAB data ***'
BLANKLINB= '*****'
EXTEND   =                      T
CTYPE1   = 'GLON-CAR'          / axis type
CRVAL1   =                   180.0 / longitude
```

LAB_Equatorial_10ms.gif

LAB_Equatorial_20ms.gif

LAB_Equatorial_50ms.gif

LAB_Equatorial_100ms.gif

LAB_Equatorial_150ms.gif

LAB_Galactic_10ms.gif

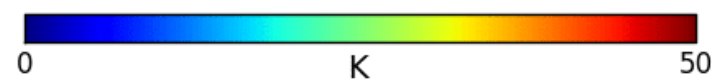
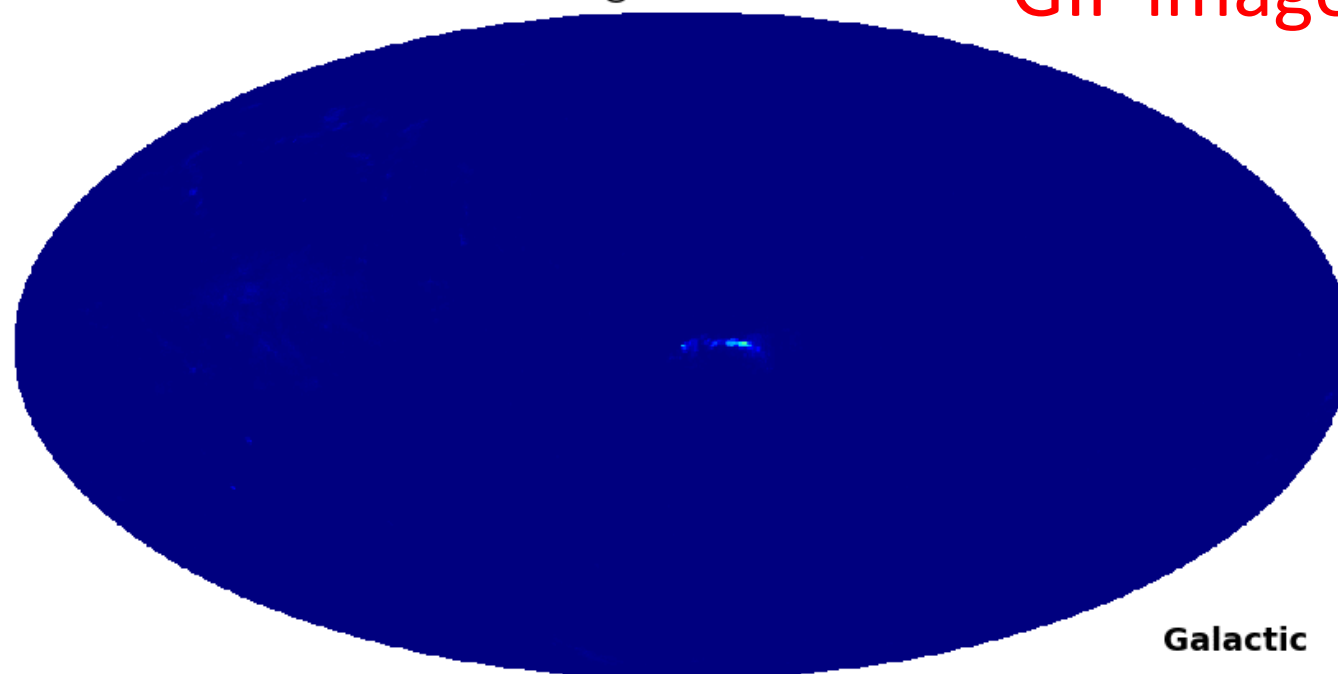
LAB_Galactic_20ms.gif

LAB_Galactic_50ms.gif

LAB_Galactic_100ms.gif

LAB @1419.70MHz

GIF image



PAON4 new data

- CygA365S7dec15, CygA465S5dec15,
CygA565S2dec15, CygA665S1dec15,
CygA765S30nov15, CygA865S3dec15,
CygA965S6dec15

Map produced from CygA665S1dec15



We can use the 7 data above to make a 7degree map