

Documentation of V CVn FITS-Files

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The basic FITS files are stored in folders sorted by years:

2020 (53.4 GB) -> in subfolders by month + Folder Calibration files

2021 (44.7 GB) -> in subfolders by month + Folder Calibration files

2022 (54.6 GB) -> one folder for all months + Folder Calibration files

General naming convention of files:

Day-Month-Year/ Specification/ Rotation Angle/Number of image/File format

Example 24-4-2021Va001.fit

Date: Years are written in 4 digits („2020“) or 2 digits („20“) or not specified

In 2022 the format was changed to year/month/day

Specification: V, R, B - Band Filter used (no letter = V), oF = without filter

Photometry files are specified with „Vgl“ or „Vergl“ (HD 116957)

„BD“: star BD +46 1863 used for measuring interstellar polarization

Rotation angle:

a -> 0 degrees

b -> 45 degrees Polarization plane/ 22.5 degrees Half-Wave-Plate

c -> 90/45 deg

d -> 135/67.5 deg

in some cases the letter is double or triple (aa aaa) which indicates a second or third series of images at that date

Number of images: per rotation angle: in most cases 60 images

note: in 2022 image number start with 11

File Format: FITS (Flexible Image Transport System)

Folder Calibration Files: High polarization stars (PhiCas, 2H Cam)

Zero polarization stars (HD 21447, Beta Cas, Theta UMa, Beta Uma)