

- open a new Setting
- Files: load **v1334_Cyg_2012Jul27.oifits**
published data from Galenne+ 2013 "Multiplicity of Galactic Cepheids from long-baseline interferometry"
- look at the data
- Add new target
- proceed as shown in the Demo introduction

- open a new Setting
- open OIFitsExplorer
 - Add Files: HD45677_PIONIER.fits.gz
 - published data from Robbe-Dubois +2022 "Improving the diameters of interferometric calibrators with MATISSE"*
 - You may have on "View 0" the uv plane and
 - on "View 1" VIS2 & T3phi versus spatial frequencies
 - look at the data
 - **keep the data with `eff_wave = [3.1 - 3.9]` microns**
- send the data to LITpro, with Interop

Some example for data filtering with OIFitsExplorer

The screenshot displays the OIFits Explorer application interface. A red box highlights the 'interop' menu, which includes options like 'Unregister from Hub', 'Show Hub Status', and 'Send OIFits data'. Another red box highlights the 'Filters' section, where the 'EFF_WAVE' filter is active and set to a range of 3.1 to 3.9 micrometers.

The main display area shows two plots for the target 'VLTI - MATISSE [2.6878 μm - 4.2006 μm] - A0-G1-J2-J3' on 'Day: 2019-05-23 - Source: 75Vir'. The top plot shows 'VIS2DATA' vs 'SPATIAL_FREQ (Mλ - 10^6/rad)'. The bottom plot shows 'T3PHI (deg)' vs 'SPATIAL_FREQ (Mλ - 10^6/rad)'. Both plots feature a color bar at the bottom indicating 'EFF_WAVE (μm)' from 2.7 to 4.2. The data points are color-coded according to this scale, with a color bar legend at the bottom of the plots.

At the bottom of the interface, the 'Infos' section shows the current view: 'VIS2DATA, T3PHI vs SPATIAL_FREQ'. Additional options include 'Color by: effective wave...', 'Skip Flagged', 'Draw lines', and 'Expr editor'.

Exercise 2
Binary detected by MATISSE
Interoperability OIFitsExplorer - LITpro

- Add new target
- proceed as shown in the Demo introduction
 - **Warning : do not select T3phi**
 - **range for [x2,y2]: [-80, 80] #samples = 40**

- open a new Setting
- Files: load V854Cen-Hband-Kband.fits
published data from Chesneau+ 2014 "The RCB star V854 Cen is surrounded by a hot dusty shell"
- open OIFitsExplorer and observe the data, in particular VIS2 chromatically
- export the data into LITpro
- Fit VIS2 & T3phi with central punct & centered gaussian
- Improve the model to fit better the "commas"

- open a new Setting
- Files: load HD45677_PIONIER.fits.gz
published data from Kluska +2020 "A family portrait of disk inner rims around Herbig Ae/Be stars"
- proceed as for "data1" demo case
 - estimate the extension
 - model: central punct + stretched_gauss_bspline3_ring4
 - **warning:** to be able to see the disk, for plotting the image (pixscale=0.25 and FoV = 30mas)
set the star's intensity to 10^{-3} . flux_weight