

# VESPA

# Implementation Workshop

# 2021

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Polarbase\_planets  
<http://polarbase.irap.omp.eu/>

# Data-Science goals

- Reduce data in High resolution spectropolarimetric stellar observation collected with the ESPaDOnS (CFHT) and NARVAL (Pic du midi)
  - Soon from Neo Narval and SPIROU instruments
- We want to publish in a VO/EPN-TAP services the Sun spectra observed through other target like satellite or planet of the Solar System

# Data content and format

- Spectra files : reduce data and LSD (Least Square Deconvolution) profiles on the normalized spectra
- Metadata are in a Postgres database and some of them can be provided in .meta file (ascii)
- Data are in the **.fits** file and .s and .out format (Libre-Esprit ASCII format) and ASCII for .lsd file
- Data fits file are already published in a SSAP service
- Attributes that should be published in the EPN TAP service
  - Instrument
  - wave min, wave max
  - Target observed :
  - URL to download the data
  - All the EPN core metadata that we have

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CLIMSO-DB  
<http://climso.irap.omp.eu>

# Data-Science goals

- Since 2007, 4 instruments to carry a long term survey of the Sun: two solar refractors and two coronagraphs.
  - Coronagraph "C1"  $\varnothing=20$  cm, on the H- $\alpha$  line :  $\lambda=656.3$  nm  $\Delta\lambda=0.25$  nm;
  - Coronagraph "C2"  $\varnothing=20$  cm, shared between
    - the He I prominence line  $\lambda=1.0830$   $\mu\text{m}$ ,  $\Delta\lambda=0.25$  nm - 90% of the time;
    - the Fe XIII corona line,  $\lambda=1.0747$   $\mu\text{m}$ ,  $\Delta\lambda=0.25$  nm - 10% of the time;
  - Solar refractor "L1"  $\varnothing=15$  cm, H- $\alpha$ ,  $\lambda=656.3$  nm,  $\Delta\lambda=0.05$  nm;
  - Solar refractor "L2"  $\varnothing=9$  cm, Ca II,  $\lambda=393.4$  nm,  $\Delta\lambda=0.25$  nm.
- We publish it through VO/EPN-TAP services for a better data dissemination

# Data content and format

- Images files : raw, calibrated, (calibration files ??)
  - Metadata are in a Postgres database
  - Data are in the fits file
  - Attributes that should be published
    - Instrument
    - Wavelength of the observation
    - Target = Sun
    - Url to download the data
    - All the EPN core metadata that we have
  - Currently the EPN-TAP service is under
    - > gavo -version :Software (0.9.6) Schema (13/13)
- => we have to update it :-)