

- Source identification is needed:
 - In the 'normal' MXT and ECLAIRs pipelines
 - As added value product for the observer
 - To trigger alerts (discover new potentially interesting sources, detect states of known transients) if not done at QLA stage.
 - In 'real time', QLA and in the 'interactive' pipelines
 - To monitor astrometric accuracy
 - To trigger early alerts
 - To help Burst Advocates taking decisions



Input data:

- Based on VO data access tools for archival data (Table Access Protocol)
- Local catalogues
- With a pre-defined (but evolving) set of catalogues and services best suited for the identification of X-ray sources (e.g. Rosat, XMM, Chandra, eRosita, GALEX, Simbad, SDSS, 2MASS, ALLWISE, radio, Gamma, radio, etc...)
- Making use of VT imaging when available (or of the source lists provided by the VT pipeline)

Providing:

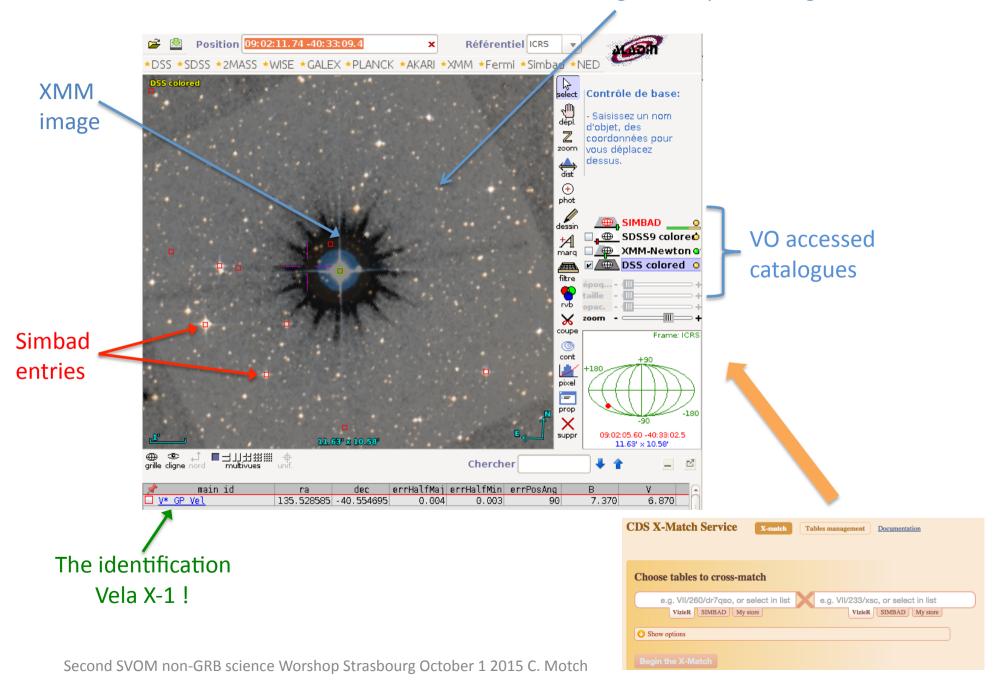
- Distances to the SVOM source (in terms of sigma) and SEDs
- Identification probability through Likelihood Ratios (archival cat entry densities)
- With priors on object type and spectral energy distribution (in addition)



Implemented as:

- a WEB service (working on a remote machine)
- as a stand alone application (e.g. dedicated Aladin extension) on a local machine
- Interfaced with CDS cross-match services (multi-catalogues statistical by ARCHES)
- Using multi-wavelength imaging as a graphical identification helping tool

Background optical image





- Many of the VO interfaced elementary tools already exist
- System should also be able to use 'local' catalogues
- Most important is to get the requirements right
- User friendly with simple interface
- Avoid building a complex Christmas tree!