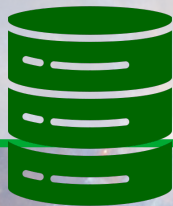


ViaLactea Knowledge Base – VLKB

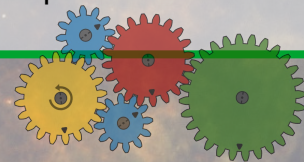
Dataset collections, catalogues, models and services for galactic astrophysics

- 11 catalogues of compact sources (from few k-rows to tens of M-rows)
 - MSX, MIPS GAL, WISE, HIGAL, ATLAS GAL, BGPS, CORNISH, ...
 - a catalogue of SED combined compact sources (~2 M-rows, ~200 columns)
 - a catalogue of diffuse objects (few tens of k-rows, structured in 4 tables)
 - Filaments (nodes, branches), bubbles
 - a table of simulated SED for compact objects (30 M-rows, 110 columns)
 - a table of source distances (~150 k-rows)
 - DB total size on disk ~40 GB
 - ~39k datasets (~6600 images, ~32400 cubes)
 - in ~100 sub-surveys (~25 surveys)
 - ~1.8 TB in total (400 GB images)
- ...and growing.



Discovery & Access Services

- Search: filtering datasets by
 - position, spectral/velocity, collection details
- Cutout: same interface as search
 - mandatory dataset identifier
- Merge:
 - multiple dataset identifiers, same params
 - fixed by sub-survey (name, species, transition)
- Catalogues:
 - TAP (IVOA) access
 - crossmatch solution to be improved
- SED models: filter & access

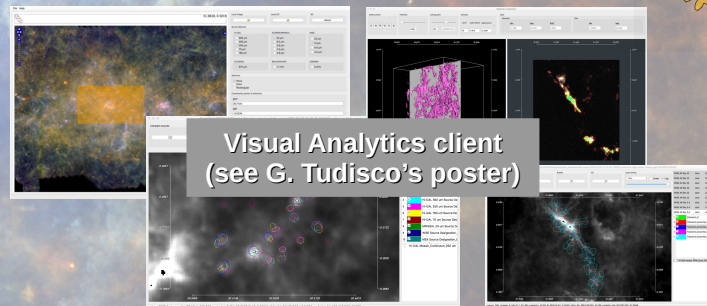


Started in 2013

Moving towards VO-flavoured interoperability

Adding new data and services

see also S. Riggi's poster!



Visual Analytics client
(see G. Tudisco's poster)

