

CTA/KM3net and VO datamodels

Use cases + DataStore headers mapping to Obscore



Use/science cases

- Hess data prototype as an example of discovery and access of DL3 data (event lists)
- Look for non-targetted objects in observations
- Build SEDs by finding out counterparts in a given FOV
- Select counterparts in some specific time ranges
- Neutrino observations have no specific sky coordinates (only fixed direction from earth) → look for counterparts tricky
- Non detection (of neutrino) in a specific duration is also an information
- → CTA need a document provided by science teams to gather discovery and access use cases (in the spirit of what has been done in the ObsCore spec appendix)
- → same need for KM3Net ?



ObsCore / CTA mapping table

- Look at ObsCore mandatory attributes and map them to hdu-index/obs-index produced by gammapy when possible. *Look at CTA datamodel attributes in parallel*
- Five terms have direct counterparts
- `s_fov`, `s_resolution`, `*_xel` apparently don't make sense for CTA. Polarization not available for CTA
- Spectral axis coordinate quantity and unit to be discussed (in extension)
- Extension attributes may be needed (fov/resolution min and max?)
- Question of « access rights » and embargo to be discussed
- Many undefined parameters actually depend from configuration
→ need for configuration description using `ivoa:provenance`
- CTA datamodel not really checked by lack of time
- Resulting table will be produced and delivered in the indico page

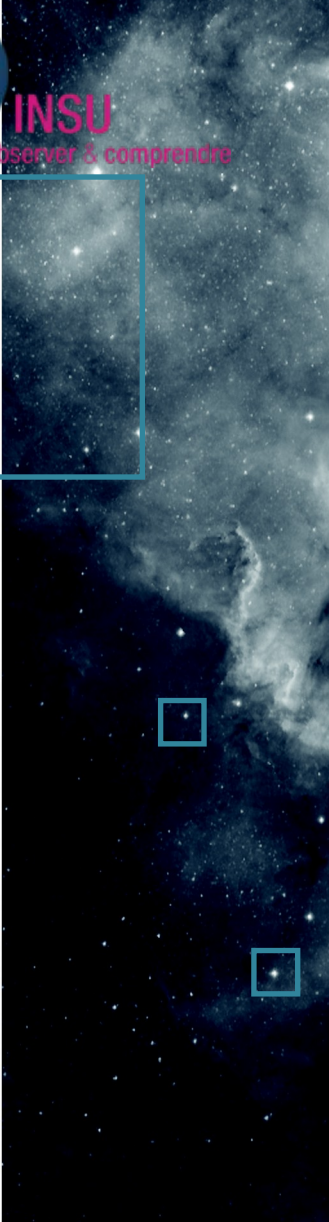


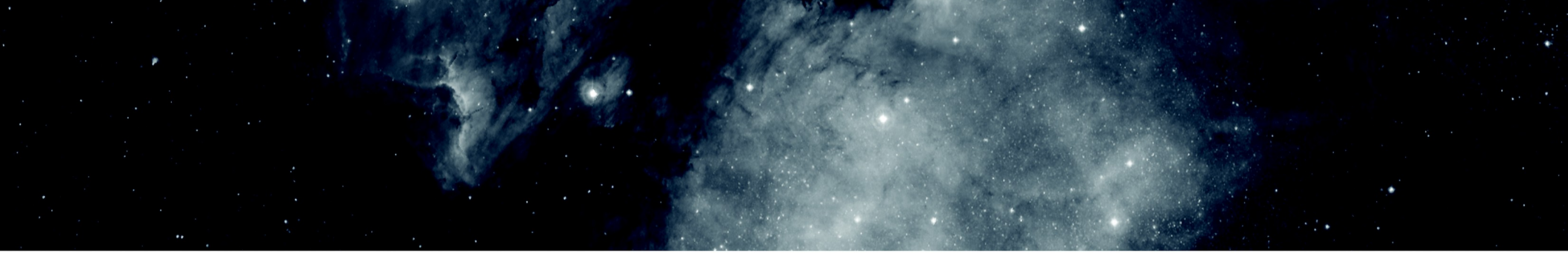
Work to be done in a next meeting (after interop?)

- Use/science case gathering document
- Complete the ObsCore → index table
- Complete ObsCore -> CTA datamodel
- Create a reverse table (from indexes to ObsCore)



Single dish metadata ObsCore mapping issues



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- Single dish data discussion interrupted at some point --→ need a follow up
 - We have discussed the various observation modes
 - `dataprodtype` : several needed/available. But we miss something for (cross) spatial profile
 - Discussion `s_fov`, `s_region` and `s_resolution` in the context of raster mode or multifeed mode

