

Dataproduct-type as SKOS vocabulary

- Hierarchical organization of dataproduct types doesn't work
- Current new proposal allows some datatype to have several « parents ». (Spectrum and TimeSeries for dynamical spectra)
- Useful for selection of datasets in ObsTAP/SIA. We can select on narrow terms or on parents according to the science case.
- Useful to prepare client in DataLink context (new content_qualifier term)
- Behind these relationship are properties of dataproduct



Dataproduct-type as SKOS vocabulary

- 4 different type of properties
 - Which sampled data axes are independent?
 - Which sampled data axes are dependent (= observable) ?
 - Which independent axes are sparsed and which are regular
 - Table or bitmap organization
- DynamicSpectra have time (TimeSeries) and spectral '(spectrum) axes sampled and independent.



Dataproduct-type as SKOS vocabulary

- Light curve and velocity curves are TimeSeries.
- One is mapping flux, the other one radial velocity
- For double stars or exoplanets the analysis software will be very different
- Light curve has TimeSeries as parent, but also « FluxMapping » (or FluxFunction or whatever)
- Velocity curve has TimeSeries as parent, but also VelocityMapping (or VelocityFunction or whatever)



Dataproduct-type as SKOS vocabulary

- Spectra and SED have sampled independent spectrum axis.
- SED is irregularly sampled (sparse)
- What is the relationship between spectra and SED ?
- We are not doing the same science with SED and spectra (Luminosity function, versus line/velocity analysis?) so useful to distinguish at ObsCore and DataLink levels.

