

Image DataModel : metadata details

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Basic metadata

- Curation,
- Dataset,
- Target,
- Etc...:
 - All very close to SSA/Spectrum and OBscore

Curation

- **Obstap**
 - Curation.releaseDate
 - Curation.PublisherDID
 - Curation.PublisherID
 - Curation.Reference
 - Curation.Rights
- **ImageDM**
 - Curation.Date
 - Curation.PublisherDID
 - Curation.Reference
 - Curation.Rights

Target

- ObsTap
 - Target.Name
 - Target.Class
- ImageDM
 - Target.Name
 - Target.Class
 - Target.Redshift
 - Target.VarAmpl

Characterization: a few additions (char2)

- Polarization
 - PolarizationAxis ucd
 - PolarizationAxis stateList (or enumeration)
 - FluAxis (or observableAxis) for each Polarization parameter

Characterization: a few additions (char2)

- Characterisation of Visibility data sets
 - Observable axes:
 - one for Visibility amplitude (give the axis name and define ucd for that)
 - and one for the phase
 - Uv coordinates : new spatial axis

Characterization: a few additions (char2)

- PSF
 - spatialAxis.resolution.refval.variationMap.Access
- Sensitivity/response n-D Maps
 - *Axis.coverage.sensitivity.variationMap.Access
- Resolution variability
- All designate pathes to these ancillary datasets
- How to implement : in main DAL response or via DataLinks ?

Mapping : WCS and/or STC

- STC mapping requires
 - Native data Coordinate system
 - Use a new cartesian coordinate system
 - CRVAL is « reference position » of the new system
 - The projection is the `cart2DrefFrame.projection`
 - The cd matrix is the `cart2DrefFrame.Transform2Matrix`

Mapping : WCS and/or STC

- CRPIX ? We should use a Pixel Coordinate system for that.
(is that the place to put matrix actually?)
- Can we express this system in STC-S ?
→ Usefull to express Queries
- These systems have to be encapsulated in a Mapping package anyway.

Mapping : WCS and/or STC

- Otherwise direct mapping of WCS
Keywords to utypes:
 - Mapping.Naxes
 - Mapping.Naxis
 - Mapping.CoordRefPixel
 - Mapping.CDmatrix
 - Etc...