



Data Model WG

Napoli , May 2011
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Photometry data modeling effort

- **PhotDM v 0.3** WD issued in the WG ,May 11
 - Covers concepts for photometric calibration and filter description
 - Utypes list defined into the specification
 - Used to serialise photometric metadata with source catalogs (provided by Vizier) S. Derriere, F. Ochsenbein
- **Spectrum** data model extension : **v 1.2, WD in WG March 19**
 - The standard to wrap photometric information together with comprehensive spectral definitions
 - Covers spectrum , isolated points, SED and any combination of those defined as **segments**
- **SED data model document WD 20110515**

In Napoli: **sketch out an optimal combination** of documents :
clear inter-relation and re-use, didactic approach, technical
specification for implementers (utypes, examples)

→ **DM1 Monday**

Observation Data model Core Components

- Proposed Recommendation
 - RFC started 3rd May
- Reference implementations
 - Test results at CADC with queries based on the requirements of the data model (use-cases) and response explained
<http://www.cadc.hia.nrc.gc.ca/cvo/ObsCore>
 - XMM SSC catalog implementation based on Saada
- Agree on how we can describe reference implementations : IVOA Note + web pages

→ DM1 Monday

Simulation data model

- From the Theory Interest group
- Covers all metadata necessary to describe theoretical simulations in astronomy
 - How they are built, represented, curated, etc...
- Several documents to review → [see RFC page](#)
 - Proposed recommendation on Simulation data model +Appendix document
 - IVOA Implementation Note (several reference implementations)
 - On line documentation describing each piece of the model (Utypes)
 - UML graph and XML schema → [DM3 Tuesday](#)

Characterisation 2.0

- A new draft to be issued this week
- Develops the level 4 of Characterisation data model with representation of sensitivity/variability maps, and access to them.
- Reference implementations:
 - Fitting of Sloan spectra vs theoretical spectra (Igor Chilingarian) demo at DM session and splinter meeting for discussion
- Identify other applications to implement independently → DM3 on Tuesday

Utypes

- Used in many data models and protocols now.
- An important link to the meaning of a metadata
- Revisit the draft of 2009
- Recall the simple rules defined for generating Utype strings
- Check that all data model has its utype list published with the standard (and reviewed together with the DM document)

→ DAL/DM2 Tuesday