



# Data Model WG

Nara , December 2010

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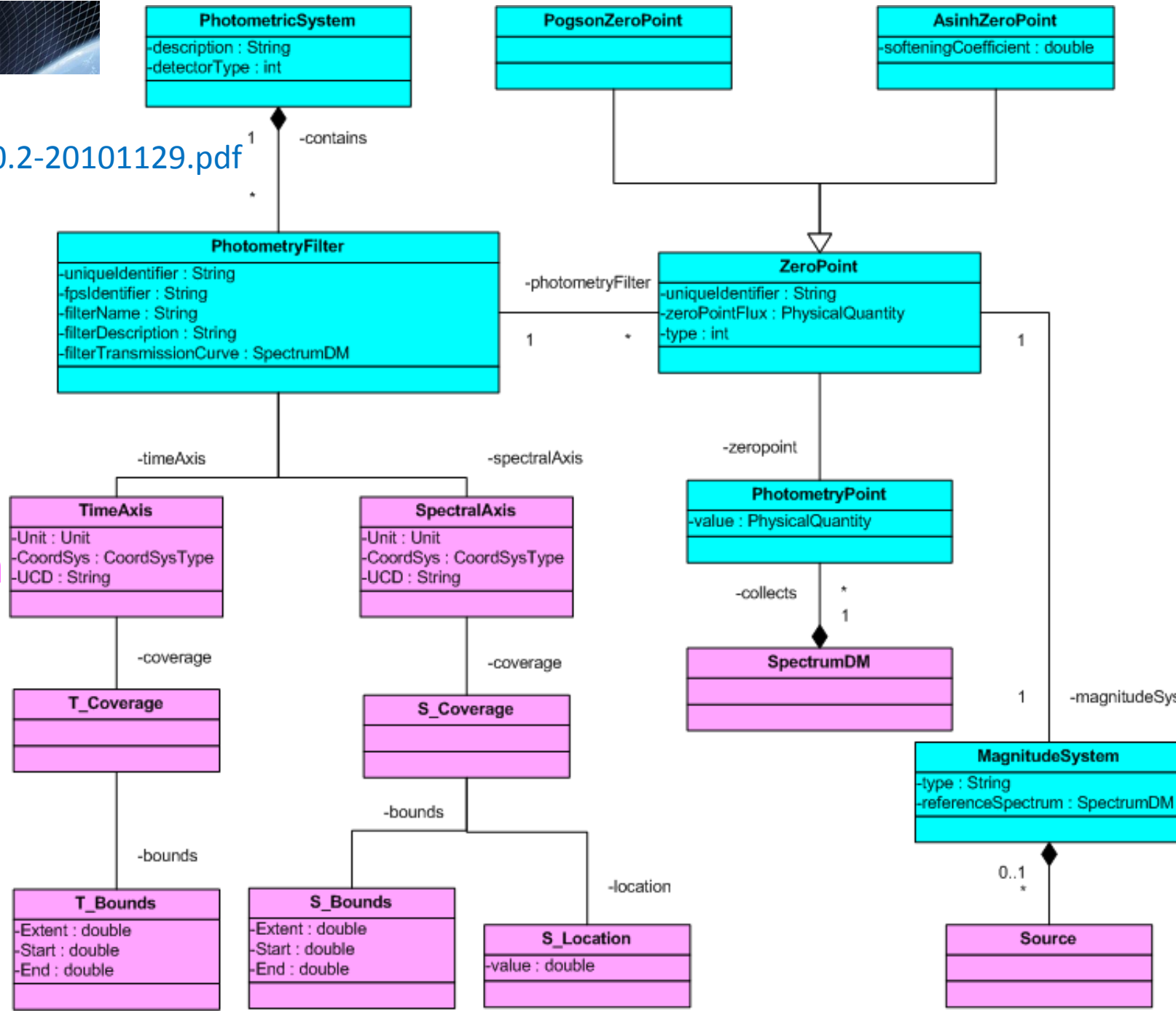
# Photometry data model

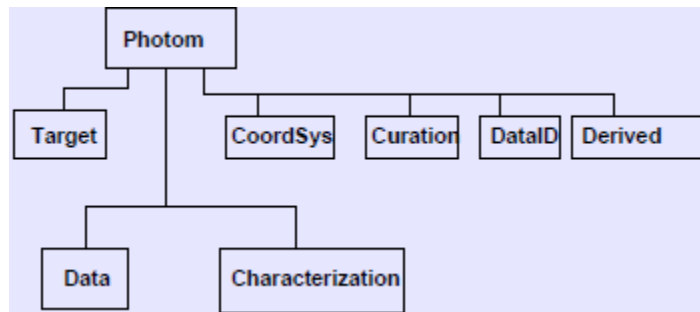
- Photometry Data Model effort
  - Initiated 2 years ago , several iterations on a WD document ( Euro-VO)
  - Last WD issued within the DM WG
  - Prototypes developed
  - VOSpec support started
- SED builder Use-case
  - New and complementary ideas
  - IVOA Note issued ( J. McDowell) recently



WD-PhotDM-0.2-20101129.pdf

Char & Spectrum





Extends Spectrum DM and Characterisation DM

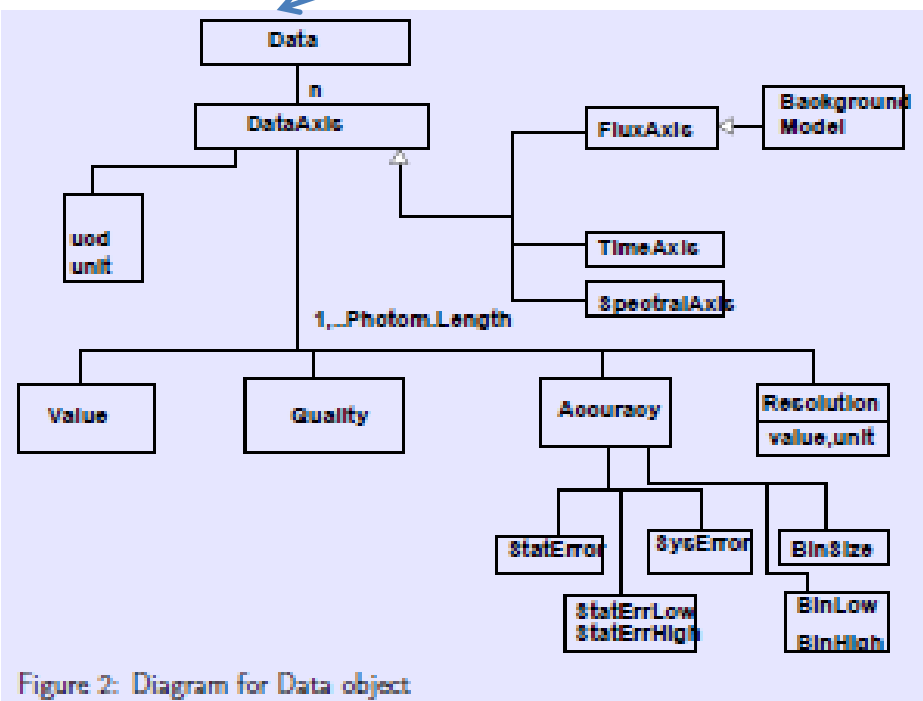
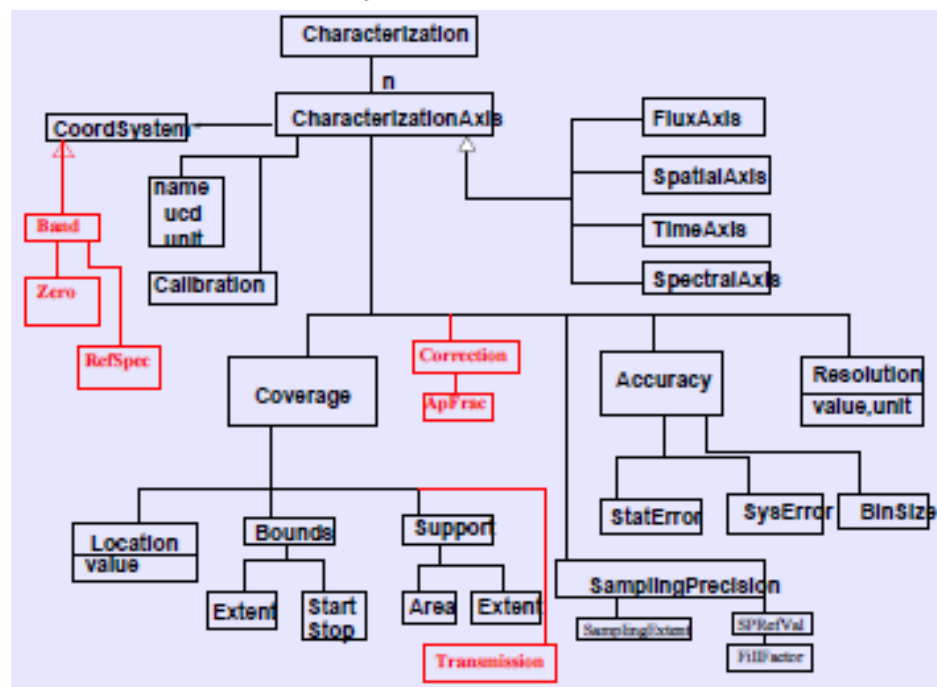


Figure 2: Diagram for Data object



# Photometry Data model

## Different contexts of insertion

- Visualising /**flux** conversion tools , Filter profile services, catalogs interactions
- Compatibility to and extension of existing Characterisation and Spectrum DM
- Prospective for other isolated measurements sets for the same Target ( Time series/ light curve)

## Actions for convergence

→ DM 1 session Thursday

- Better match for photometric system definition
- Extend spectral axis domain to all regimes
- Identify Filter Class clearly with service prototypes FPS
- Enhance with link to Filter profile service and Provenance data model
- Transmission curve also in Characterisation v2.0 level4

# Observation Data model Core Components

- A data model ( ObsCore) and a service specification ( Obs/TAP) → One Document
- New draft issued 3<sup>rd</sup> December to be reviewed
  - Use cases described in detail in first appendix
  - Examples of data sets with various calibration levels
  - List of possible observable names tagged with UCD
- How to record existing implementations?
- Note or web page ?

# Data model for simulations

- Elaborated within the Theory Interest group in interaction with DM and other WGs
- Offers a wide and detailed description on metadata necessary to describe theoretical simulations in astronomy
- Several documents to review → [Theory wiki page](#)
  - IVOA Note circulated on DM list on SimDB data model to become a WD after this meeting
  - IVOA Implementation Note
  - On line documentation describing each piece of the model

# Characterisation 2.0

- A new draft to be issued this week
- Develops the level 4 of Characterisation with sensitivity maps and access to external resources like filter response
  - DM2 session on Thursday
- On the same session :
  - Data model for Planetary data
  - Spectropolarimetric data