

IVOA Data Model

Opening @Urbana, 2012
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DM Sessions

- Two sessions scheduled for this interop:
 - On going Data Models (Tuesday)
 - Spectral DM 2.0
 - SED DM
 - Characterization 2.0
 - Planetary Data DM
 - Utypes Discussion (Plenary)

Data models on going

- Spectral DM 2.0 (Mark Cresitello-Dittmar)
 - Draft prepared including a full revision of the Spectral DM
 - In line of the agreed UML (see Pune presentations)
 - Many things changed:
 - Utypes consistency
 - Better reuse of elements of other DMs
 - General rewrite of the spec to make it more understandable
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Data models on going

- Updates of SED DM (Doug Tody)
- Characterization 2.0 (F. Bonnarel)
- Special talk on an effort to create the “ObsCore” for planetary data (a link between IVOA/Europlanet/IPDA) (B. Cecconi)
- Photometry DM: PR version has been published and distributed to the WG. In two weeks, RFC process could start

PhotDM in use

The image displays the VOSpec Spectral Analysis Tool interface, which is used for querying and analyzing astronomical data. The interface is divided into several panels:

- Server Selector:** A panel on the left showing a list of services. The "INES: The IUE Newly Extracted Spectra" service is selected.
- Query by params:** A panel showing the query parameters for the target Vega. The query tree includes: TARGET_NAME Vega, Simple Query, POS (RA: 179.234734787, Dec: 8.783688956), SIZE, Advanced Query, Service Specific Query, PHOTOMETRY: CDS Multicatologue Photometry Service, The ISO Data Archive InterOperability System, and INES: The IUE Newly Extracted Spectra.
- Query Outlook:** A panel showing the query results, including a list of URLs and a "Query" button.
- VOSpec Spectral Analysis Tool:** The main panel showing a spectral plot. The plot displays Flux (X_y logarithmic) versus Wavelength (micron, logarithmic). The plot shows a series of data points (red, orange, green, black, cyan) and a fitted curve (green line). The plot is titled "VOSpec Spectral Analysis Tool".
- Graphic Mode:** A panel on the left showing a list of graphic modes (Points, Big Dots) for different data series.
- Target Information:** A panel showing the target name (Vega), RA (179.234734787), Dec (8.783688956), and Size (1).
- Legend:** A panel at the bottom showing a list of data series: 2MASS, Spitzer/MIPS, Johnson, IRAS, AKARI, and HIP.

The interface also includes a toolbar with various icons for editing, viewing, and analyzing the data. The status bar at the bottom indicates "3 queried" and "10 retrieved" data points.

Utypes session

- Work done on the utypes area
- Special session on utypes (plenary as per impact in many WGs) (Omar Laurino, Mireille Louys, Gerard Lemson)
- Version of the draft to be presented to the interop
- Clarification of utypes current and future use
- Tiger Team to be formed to define Use Cases and solutions