

# IVOA Data Model

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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
    - ....

# 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 service "INES: The IUE Newly Extracted Spectra" is selected.
- Query by params:** A panel showing the query parameters for the target Vega. The query is structured as follows:

```
Query
├── TARGET_NAME Vega
├── Simple Query
│   ├── POS 779.234734787,36.783688956
│   └── SIZE
├── Advanced Query
├── Service Specific Query
│   ├── PHOTOMETRY: CDS Multicatologue Photometry Service
│   ├── The ISO Data Archive InterOperability System
│   └── 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/logarithmic) on the Y-axis (ranging from 1e-01 to 1e+04) versus Wavelength (micron, logarithmic) on the X-axis (ranging from 5.0 to 1402). The plot shows a dense cluster of points in blue and red, with a green line connecting several points. 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", right ascension "Ra 9 234734787", declination "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.
- Buttons:** Buttons for "RETRIEVE", "Unmark All", and "Reset" are located at the bottom right.

# 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
- Use Cases!