

# Data Model Working Group

## Closing Remarks

IVOA Interop

Nov 12, 2023

Tucson, AZ

# Session Highlights

- Firefly: Tackling the problem of grouping Spectra in VOTable
  - Multiple spectra.. associated but independent within a row, multiple rows
  - Opportunity to work directly with implementor to tackle a specific problem
- High Energy Data in the IVOA
  - Several meetings this past semester discussing
    - HE data ( Event Lists, Response files ), their interdependency and how well they are served by the current models. Topics coming to the mail list!
    - Mapping of HE data to ObsCore to assess coverage and identify important missing elements.

# Session Highlights

- Latest developments in MIVOT client/server side software
  - MIVOT Validator: Python package for validating MIVOT annotated VOTables
    - <https://github.com/ivoa/mivot-validator>
  - Client Side
    - MIVOT Interpreter: module for accessing model instances. => PyVO Draft PR #497
    - Reading and Writing VO Model annotations => AstroPy v6.0.0rc1
- TAP Server
  - VOLLT: extension to annotate data on-the-fly
    - Slated for release by the beginning of the year.

# Session Highlights

- MANGO: model for astronomical source data / catalogs
  - Update on recent development work
- ObsCore Extension for Radio Domain
  - Reaching consensus on the working draft within the Interest Group
  - Test implementations are under way
  - Approaching readiness for WG turnover for RFC process
  - Serves as a good template for other domains (Time Domain, High Energy)

# Other Highlights

- A LOT of energy around Spectrum model
  - CSP: extending Spectral model for  $\gg 1$  spectrum
  - Development of Spectrum 1.1 validator!! Would be a BIG contribution
- Suggestion to generate VO-DML compliant version of SimDM
  - Theory group? Are you game?
- CAOM: good discussion about how this model might migrate into the data model ecosystem

# Summary

- Great presentations and impressive progress on roadmap objectives.
- Looking forward to a very productive semester.
  - Watch for restart of regular Running meetings.

# Contact

- Email List: [dm@ivoa.net](mailto:dm@ivoa.net)
- IVOA Slack Channel: #data-models