Obscore Implementation in SPLAT

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IVOA Interop, Madrid, May 2014
SPLAT-VO is a graphical tool for analysing astronomical spectra, originally with SSAP functionality.

- New additions: DataLink and ObsCore support, new spectral analysis functions.
- ObsCore implementation ongoing.
Why implement Obscore?

- Because there are ObsCore services offering spectra.
- VO data centers are starting to offer ObsCore services, so more data can be discovered with SPLAT-VO and therefore used with it’s spectral analysis functions.
- Less "simple" than SSAP $\implies$ More powerful selection of spectra from the VO using ObsTAP.
Implementation

- Discovery of ObsCore services using RegTap
  - provides more precise discovery results for ObsCore, restrict response to needed information (no need to parse long resource records)
  - Future port of all SPLAT-VO registry query to RegTap
- TAP: up to now Sync TAP implemented (using Starjava TapQuery library)
- parse DataLink input from services if necessary
- User Interface: ongoing work.
  - 1: Cone search similar to SSAP interface - automatically create ADQL query
  - 2: ADQL interface - user can write queries directly
Feedback to ObsCore services:

- Currently registry search returns ca. 8 OBSCore services
- Only few of them respond correctly
  - ivoa.ObsCore table missing, case matching (ObsCore/Obscore), no response, ...
  - contact persons will be notified
Where to get it

- Preliminary build of SPLAT-VO with ObsCore can be retrieved at [http://www.g-vo.org/pmwiki/About/SPLAT](http://www.g-vo.org/pmwiki/About/SPLAT)
- After implementation and testing it will be incorporated into SPLAT-VO in a new release.
DEMO

SELECT TOP 10000 * from ivoa.Obscore WHERE dataproduct_type='spectrum' AND em_min >= 1e-7