

WFAU quarterly - November 2017

Firethorn & Virtual Observatory services

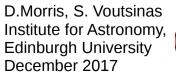
















Virtual Observatory

- Contributions to the Time domain interest group
 - Time-series representation, combining work from Jiří Nádvorník and IVOA DM group
- Contributions to the evolution of ADQL
 - ADQL draft 2.1 published on IVOA wiki
 - Compatible with TAP and DALI data types
- Attended IVOA conferences in Shanghai and Chile
 - Presented work on ADQL and VOEvent
 - Contributed to BoF sessions on cloud infrastructure
- Ensuring that IVOA meets LSST needs
 - Working with LSST to promote the changes they need
 - Working to improve consistency between standards











- GENIUS demo Completed
 - Uses Firethorn & DQP to run queries combining Local ROE catalogs and GAIA DR1 at ESAC
- TAP Autocomplete JS library
 - Completed, and being used at the ESA GAIA GUI
- Paper on use of Docker in Astronomy
 - Astronomy and Computing (July 2017, vol 20)
 - Poster at ADASS 2017





LSST:UK

- Investigating infrastructure to consume and broker alerts to UK users
 - LSST / ZTF data streams (firehose)

 Pyrothorn (Python library used to test Firethorn) being used to benchmark Qserv (LSST database distributed back-end)





Virtual Observatory WFAU services



- TAP service running for OSA (ATLAS & ATLAS related databases)
 - Uses Firethorn
- Build and register TAP services for each remaining WFAU archive.
 - WSA
 - VSA
 - SSA









- Replacing old DSA TAP services
- Future work
 - Cone Search service, WFAU publishing Registry, Geometry for our TAP services

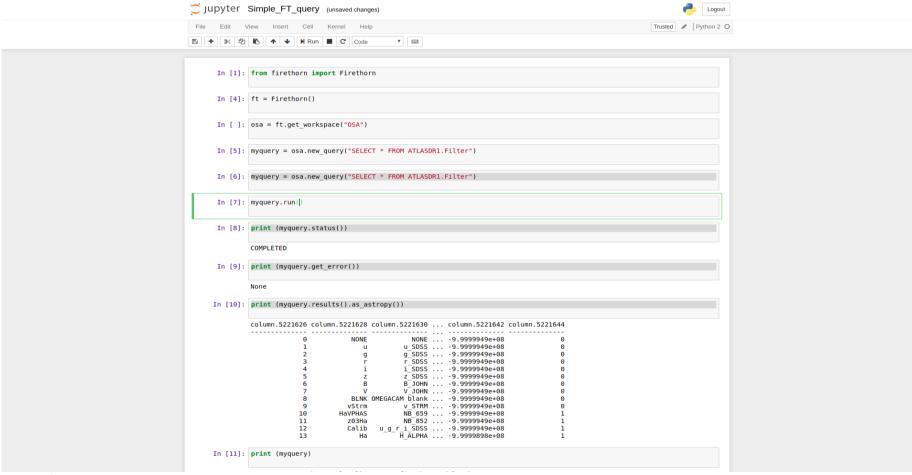


Virtual Observatory Firethorn.py

- Building Firethorn python client to access WFAU services via python
- Will be used via Jupyter Notebooks / Jupyter Hub
- Used as an experiment for LSST & useful for WFAU users as another way to access our data



Virtual Observatory - Firethorn.py



D.Morris, S. Voutsinas Institute for Astronomy, Edinburgh University December 2017

