



Contribution ID: 197

Type: **Poster**

Bringing Observational Archives and Data Reduction Pipelines Together: Automating the pyWiFeS pipeline inside Data Central

Tuesday 8 July 2025 11:41 (1 minute)

With ANU 2.3m Telescope observational data now being archived in the Data Central Archives system, observers can now receive their reduced data quicker than ever. As new observations come off the telescope, they are transferred into the Data Central Archives system where the data then gets reduced as part of the archival workflow. The implementation of the pyWiFeS pipeline automatically detects any calibration frames related to the new observation and then produces the cubes and other data products. This workflow also includes the feature of running a re-reduction automatically as new calibrations or exposures become available and updating the archive database as required. Once the reductions have completed, they then get ingested into the database where astronomers can query and download both raw and reduced files via a web interface or interact directly through the Archives API with support in Data Central's Jupyterhub service upcoming.

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Session Classification: Poster