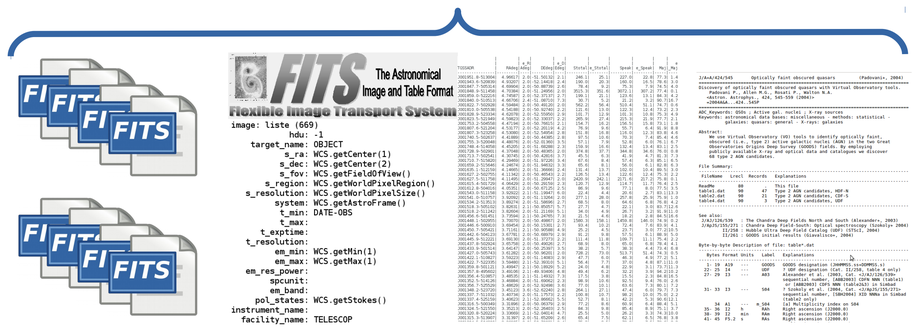
Interactive submission of data to be published in VizieR

CENTRE DE DONNÉES ASTRONOMIQUES DE STRASBOURG

MONTHLY NOTICES of the Royal Astronomical Society · A&A · Astronomical Notes / Astronomische Nachrichten · PASJ · Astronomy & Astrophysics · Astronomical Society of the Pacific

The authors submission updated with spectra/images including data upload & meta-data assignment → **CDS validation** → **Improve discovery and reusability with dedicated service and through the Virtual Observatory**



http://vizier.u-strasbg.fr/
http://cdsarc.u-strasbg.fr/assocdata/

Authors submission updated with spectra/images

More and more, astronomers are required by funding agencies to publish the data used to produce their results (catalogs and tables). It is to fulfil this new need that the VizieR associated data service has been developed: it allows astronomers to publish their image, spectra, time series and data cubes in a dedicated database, where, thanks to careful indexation (by authors and / or CDS staff), it can be easily retrieved, but also more importantly, discovered and re-used, increasing the impact of the data and the author's work. Here we present the web interface that has been developed at CDS for submission of data to this service.

Contents

- 16K catalogues (35K tables)
- FITS collections coming from ~150 catalogues
  - ~32K images coming from litterature and surveys
  - ~102K spectra coming from litterature
    + 170K **CoRoT** time series
    + 2.2M+4.1M **LAMOST** spectra (DR1+DR2)

A step by step web application with user assistance

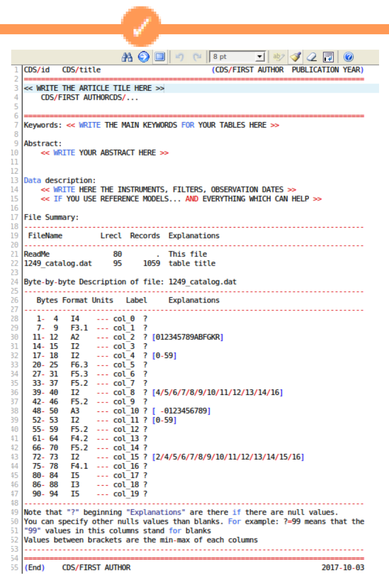
http://cdsarc.u-strasbg.fr/vizier.submit/

Upload tabular data

Login with a pseudo (protected by IP). Authors can log/unlog to continue their submission thanks to the UWS architecture.

Fill the ReadMe

Upload tables (CSV,VOTable, Ascii, Fits table). The background server builds a ReadMe which will be completed by authors. Authors can edit the ReadMe online.

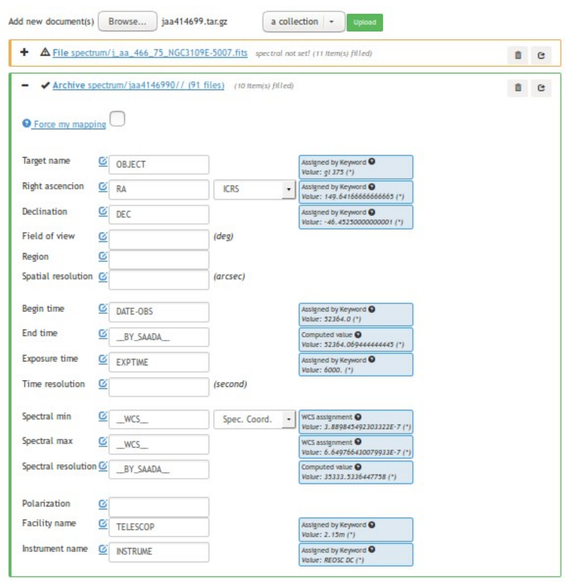


ReadMe edition with the edit_area javascript library

Upload FITS Spectra

Author uploads FITS spectra/images and completes the meta-data computed from FITS header by the SAADA API. FITS can be uploaded individually or as a collection for a single mapping.

Upload FITS Images



Terminate

Finish the submission and sends a receipt via email.

Authors data and meta-data are embedded into the CDS pipeline.

Meta-data assignment strategy

The upload service is one of the VizieR ingestion workflows, it is dedicated for authors publishing in the major astronomical journals. In particular, A&A editors ask authors to send data in VizieR.

1) Authors send data with meta-data
   (The ReadMe files and the FITS mapping)
2) Data are taken in charge by the CDS documentalist which complete meta-data with the VizieR requirements.
3) Data are available after the CDS validation driven by CDS astronomers.

A new Indexation service for associated Data accepting also surveys

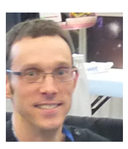
- CoRoT (170K time series), LAMOST DR1&DR2 (6M spectra)
- ATLASGAL (9K images)

Alternative uploads and tools

- Table and ReadMe standardisation :
  VizieR provides tools lika the cdsclient package (a tools collection for Unix plateform) or a Python library
  http://cds.u-strasbg.fr/resources/doku.php?id=anafile
- FTP is available for big datasets

Technology used

- PostgreSQL database , Saada
- Lite web client :
  Jquery/AJAX/JSON, edita_area (BSD)
- Tomcat server : UWSLib



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