

# Using the UAT thesaurus to annotate catalogue descriptions in VizieR



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CENTRE DE DONNÉES  
ASTRONOMIQUES DE STRASBOURG

# □ VizieR keywords

- Documentalists assign keywords to each VizieR catalogue (in ReadMe)
  - 305 ADC keywords
- These keywords are mapped in DB to a limited list of VizieR terms (76 terms for astronomy)

Abundances	Abundances
Abundances, [Fe/H]	Abundances
Abundances, peculiar	Abundances
Accretion	
Active gal. nuclei	AGN
Associations, stellar	Associations
Asteroids	Planets+Asteroids
Astrographic zones	
Astrometric data	Positional_Data
Atlases	
Atomic physics	Atomic_Data
Attitude determination	
BL Lac objects	BL_Lac_objects
Balmer lines	Photometry:narrow-band
Bibliography	
Binaries, X-ray	Binaries:cataclysmic
Binaries, X-ray	sources
Binaries, cataclysmic	Binaries:cataclysmic

# □ VizieR keywords search

- Search by astronomy keyword

Find catalogs among 17294 available

Expand search

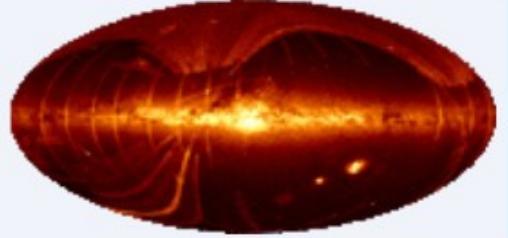
**?** Catalog, author's name, word(s) from title, description, etc.  
e.g.: AGN, Veron, I/239, or bibcodes...

► [Search for catalogs by column descriptions \(UCD\)](#) **?**  
► [Search for catalogs containing additional data](#)

Search by Position across 18615 tables

Target Name (resolved by [Sesame](#)) or Position:  
  J2000  2

Target dimension:  
 Radius  Box size



**?** [More about VizieR](#)  **?**

# □ VizieR keywords in Registry

- The VizieR keywords are used in the VOResource <subject> elements

ivo://CDS.VizieR/J/A+A/289/740 1994A&A...289..740K

**Key words:** stars: abundances, early type – Galaxy: abundances, evolution

Journal

ADC\_Keywords: Stars, B-type; Spectroscopy; Abundances

Keywords: stars: abundances, early type - Galaxy: abundances, evolution

ReadMe

<**content**>

<**subject**>Abundances</**subject**>

<**subject**>Spectroscopy</**subject**>

<**subject**>Stars:early-type</**subject**>

Registry

- Pro : homogeneous description across all resources
- Con : limited vocabulary

# □ UAT : Unified Astronomy Thesaurus

- <http://astrothesaurus.org/> 2018ApJS..236...24F
- See A. Accomazzi's presentation (10/2016)
  - <http://wiki.ivoa.net/internal/IVOA/InteropOct2016Semantics/UAT-Update2016.pdf>
- Current version 2 (January 2017)
  - v3 of thesaurus in preparation (planned 09/2018)
- Usage is broadening
  - Collaboration with AAS, journal editors
  - Classification of HST & JWST proposals
  - Recommended terms for <subject> from VOResource 1.1

## VizieR to UAT mapping

- Nearly all terms have proper correspondance
- Good idea to change all VizieR catalogue <subject> to UAT terms
  - But keywords could be more precise
- Use UAT terms from the beginning in VizieR ?
  - Need to be integrated into ingestion pipeline
  - Training of VizieR documentalists