

Advanced tutorial



The VizieR service contains:
> 9000 catalogues, published tables,
and observation logs
This tutorial shows various query
examples and using the webpage
interface

<http://vizier.u-strasbg.fr>

1. Access criteria in the full interface

- Compose criteria among different type of search
- Search using column definitions (UCD)

2. To interact results among themselves or with an external list

- Interaction with an external list of constraints
- Interaction with an external list of targets
- Make a crossmatch

3. Adjust your result and make some interactions with external tools

- The navigation bar
- Save your result into the CDSportal
- Send your results to external software (samp)

Access criteria in the full search interface

Compose criteria among different type of search

Add keywords: IR, Galaxies

The screenshot shows the VizieR Service search interface in a Mozilla Firefox browser. The browser's address bar shows the URL <http://vizier.u-strasbg.fr/viz-bin/VizieR>. The page header includes the CDS logo and navigation links for Simbad, VizieR, Aladin, Catalogs, Dictionary, Biblio, and Resources. The main content area is titled "VizieR Service" and features several search options:

- Find catalogs among 8474 available:** A search box with a "Clear" button and a "Find..." button. Below it, a description of the search criteria: "Catalog, author's name, word(s) from title, description, etc. e.g.: AGN, Veron, I/239, or bibcodes...". There is an "Expand search" checkbox.
- Search catalogs by column descriptions (UCD):** A section with three dropdown menus: "Wavelength" (set to IR), "Mission" (set to COBE), and "Astronomy" (set to Galaxies). The "Astronomy" menu is open, showing options like Diameters, Earth, Ephemerides, Equivalent_widths, Extinction, Galaxies, and Galaxies:Markarian.
- Search by Position across 8764 tables:** A section with a "Target Name (resolved by Sesame) or Position:" input field containing "m31", a "J2000" dropdown, a "Target dimension:" input field containing "2", and a unit dropdown set to "arcmin". There is a "Go!" button and radio buttons for "Radius" (selected) and "Box size". To the right is a small image of a galaxy.

At the bottom of the search area, there is a "Find Catalogs" button and a link to "more about VizieR". Below the search area, there are links for "Browsing modes: Designation, Acronyms, Favorites, Dates, Image Spectra, Kohonen" and "Or list the large surveys".

Add a target

Submit

The result: catalogues matching the criteria

Lines of the catalog

Sort by catalogues name, popularity, size or density

Detailed catalogue description files

The screenshot shows the 'Catalog Selection Page' in Mozilla Firefox. The browser address bar shows 'http://vizier.u-strasbg.fr/viz-bin/VizieR'. The page title is 'Catalog Selection Page' and it displays '18 catalogs found having potential matches (14 really found)'. On the left, there is a 'Search Criteria' sidebar with sections for 'Keywords', 'Preferences' (max: 50, HTML Table, All columns, Compute), and 'Mirrors' (CDS, France). The main content area is a table of search results. Each row includes a checkbox, a spectral range (e.g., IR, 0pt), a popularity/density bar, a title, and links for 'Similar Catalogs' and 'ReadMe+ftp'. Small thumbnail images of galaxy coverage maps are shown to the right of each entry.

Checkbox	Spectral Range	Popularity/Density Bar	Title	Links	Coverage Map
<input type="checkbox"/>	IR 0pt	(density 170) 518k	M31 and M33 UVRI photometry (Massey+, 2006)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR 0pt	(density 170) 606k	UBVRI phot. in seven Local Group dwarfs galaxies (Massey+, 2007)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 3) 381	Luminous AGB stars in nearby galaxies (Tsalmantza+, 2006)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 290	MSX galaxy observations (Kraemer+, 2002)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 307	Infrared Photometry and 21cm data for nearby galaxies (Aaronson+, 1982)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 24k	Catalogued Galaxies + QSOs observed in IRAS Survey, Vers.2 (IPAC 1989)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 1k	New VLA Sky Survey (NVSS) Cat of IRAS 2 Jy Galaxies (Yun+ 2001)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR 0pt	(density 2) 2k	H-magnitudes of spiral galaxies (Tormen+ 1995)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 1k	GALEX ultraviolet atlas of nearby galaxies (Gil de Paz+, 2007)	Similar Catalogs ReadMe+ftp	
<input type="checkbox"/>	IR	(density 2) 3k	Catalogue of ISM content of normal galaxies (Bettoni+, 2003)	Similar Catalogs ReadMe+ftp	

Spectral range of catalogue

Popularity statistics on catalogue

Coverage map

Search using column definitions (UCD)

The screenshot shows the VizieR Service search interface. At the top, there's a navigation bar with logos for CDS, SIMBAD, VizieR, Aladin, Catalogs, Dictionary, Biblio, Tutorials, and Resources. The main search area is titled "Find catalogs among 8474 available". It includes a search input field with a "Clear" button and a "Find..." button. Below the search field, there's a section for "Hide catalogs by column descriptions (UCD)" with a "UCD search" input field containing the expression "(src.redshift*)&(phot.mag*;em.IR.K*)". To the right of the search field, there are three dropdown menus for "Wavelength", "Mission", and "Astronomy". Below the search field, there are radio buttons for "Simple examples", "Textual search", and "UCD tree". At the bottom, there's a section for "Choose catalogs containing a type of column by clicking on the below checkbox" with a list of column types and their corresponding UCD expressions.

Column Type	UCD Expression
Position	pos.eq*
J2000	pos.gal*
Galactic	pos.parallax*
parallax	src.redshift*
Motion	spect.dopplerVeloc* phys.veloc*
redshift	pos.pm*
radial velocity	phot.flux*;em.radio*
proper motion	phot.flux*;em.IR* phot.flux*;em.mm*
Flux	phot.flux*;em.opt*
Radio	phot.flux*;em.X-ray* phot.flux*;em.gamma*
IR	phot.mag*;em.IR.K*
Optic	phot.mag*;em.opt.B*
High energy	phot.color*
Magnitude	phys.magAbs*
magnitude IR (K band) (2mass)	
magnitude Optical (B band) (SDSS G)	
color	
absolute	

The UCD expression appears here

For instance, « redshift », « magnitude IR »

Search using column definitions (UCD) (other method)

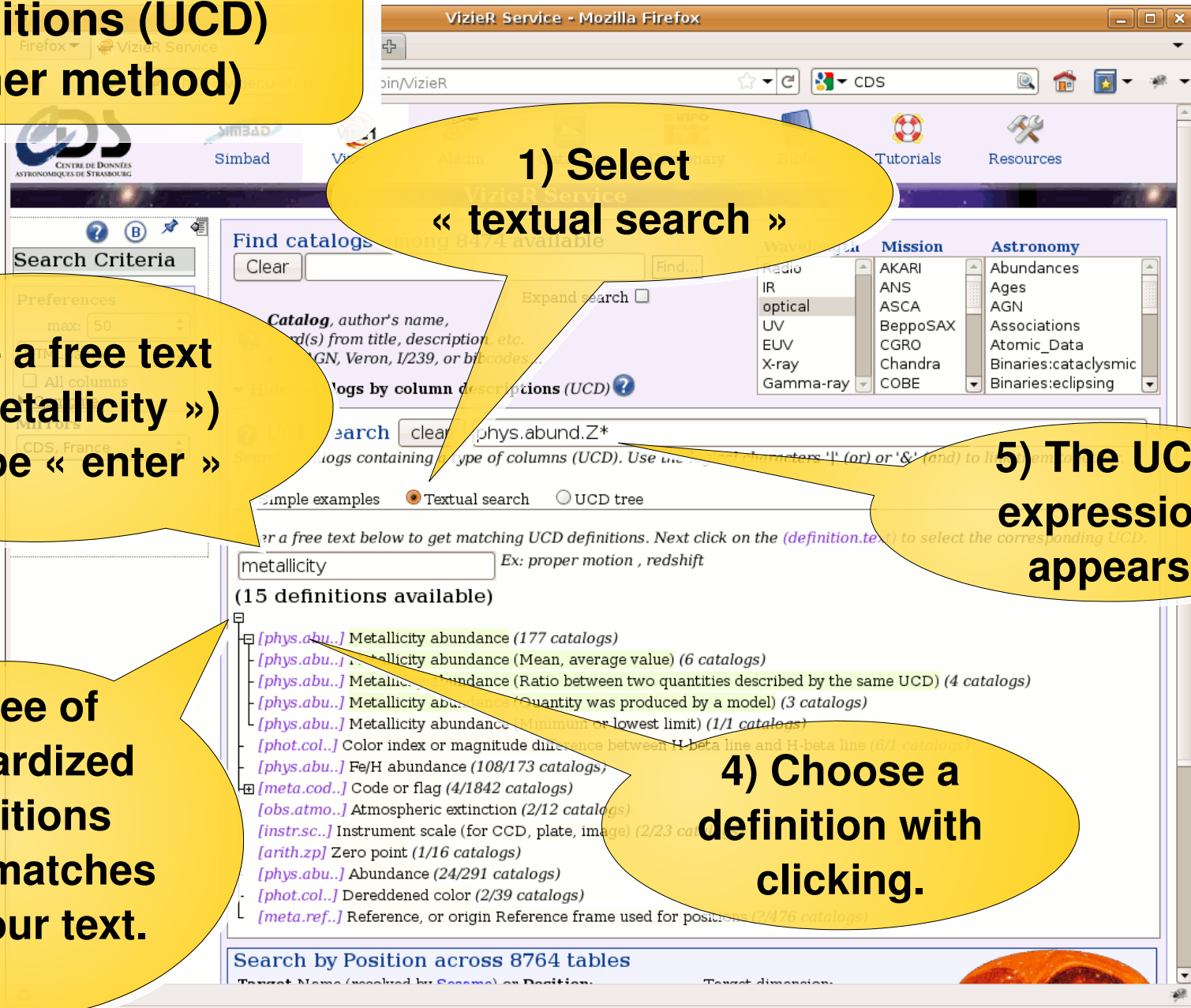
1) Select « textual search »

2) Type a free text (ex:« metallicity ») and type « enter »

3) Tree of standardized definitions which matches with your text.

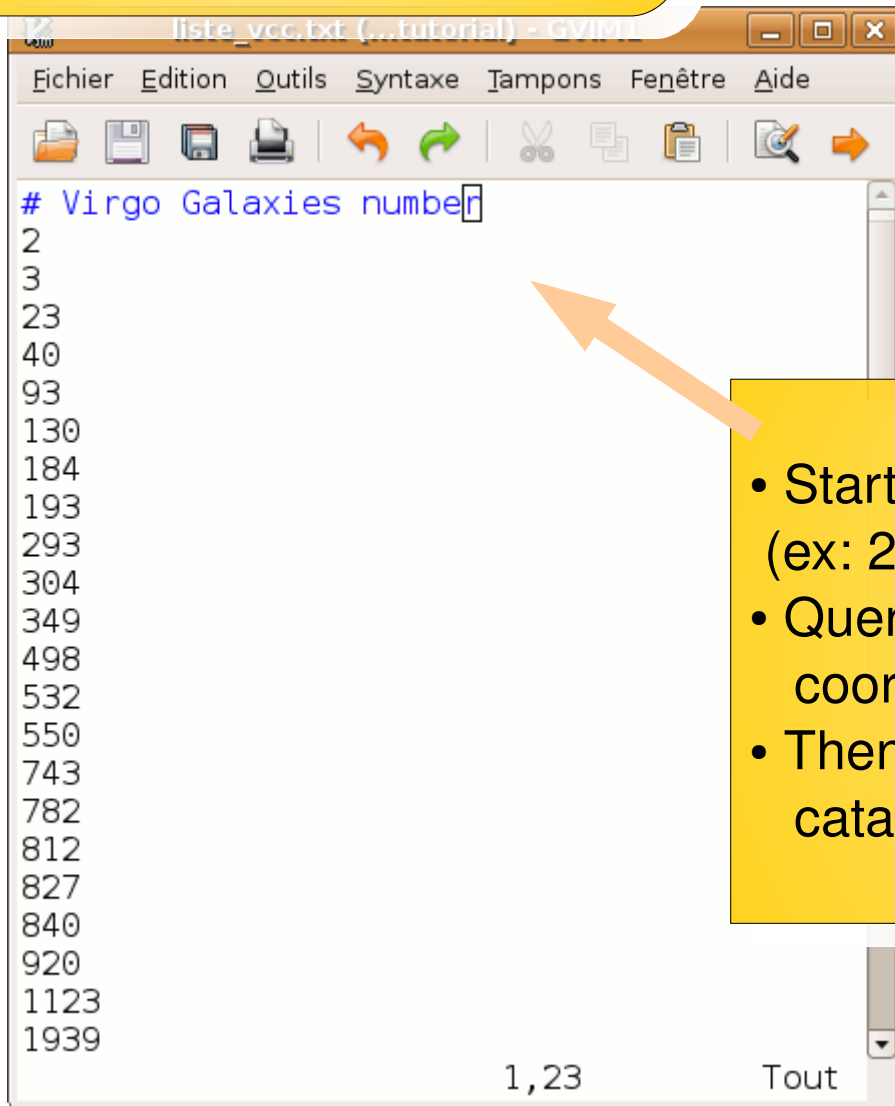
4) Choose a definition with clicking.

5) The UCD expression appears



To interact results among themselves or with an external list

Interaction with an external list of constraints



The screenshot shows a Gvim window titled "liste_vcc.txt (...tutorial) - Gvim1". The menu bar includes "Fichier", "Edition", "Outils", "Syntaxe", "Tampons", "Fenêtre", and "Aide". The toolbar contains icons for file operations and editing. The main text area contains a list of VCC numbers, starting with a comment line "# Virgo Galaxies number". The numbers listed are: 2, 3, 23, 40, 93, 130, 184, 193, 293, 304, 349, 498, 532, 550, 743, 782, 812, 827, 840, 920, 1123, and 1939. At the bottom of the window, the status bar shows "1,23" and "Tout".

```
# Virgo Galaxies number
2
3
23
40
93
130
184
193
293
304
349
498
532
550
743
782
812
827
840
920
1123
1939
```

- Start with a list of VCC number (ex: 2 for VCC2)
- Query the VCC catalogue to get the coordinates
- Then query the IRAS point source catalogue with the list of VCC coordinates

To interact results among themselves or with an external list

Find the VCC catalogue

VizieR Service - Mozilla Firefox

Firefox VizieR Service

http://vizier.u-strasbg.fr/viz-bin/VizieR

CDS

Simbad VizieR Aladin Catalogs Dictionary Biblio Tutorials Resources

VizieR Service

Find catalogs among 8474 available

Clear vcc Find...

Expand search

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

Search catalogs by column descriptions (UCD) ?

Search by Position across 8764 tables

Target Name (resolved by [Sesame](#)) or Position: Clear [] J2000 [] Target dimension: 2 arcmin [] Go!

Radius Box size

[More about VizieR](#) ~ 3 matching catalogs Find Catalogs

Browsing modes: [Designation](#), [Acronyms](#), [Favorites](#), [Dates](#), [Image.spectra](#), [Kohonen](#) Or list [the large surveys](#)

elapse time 0

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To interact results among themselves or with an external list

The screenshot shows the VizieR Catalog Selection Page in Mozilla Firefox. The browser address bar shows the URL <http://vizier.u-strasbg.fr/viz-bin/VizieR>. The page header includes the CDS logo and navigation links for Simbad, VizieR, Aladin, Catalogs, Dictionary, Biblio, Tutorials, and Resources. The main content area displays the results of a search, with 3 catalogs found (obsoleted catalogs discarded). The search criteria on the left include keywords and tables. The table list on the right shows the following entries:

Table	Description	Rows	Coordinates
J/ApJS/171/101	Globular clusters in the ACS Virgo cluster survey (Jordan+, 2007)		
<input type="checkbox"/> J/ApJS/171/101/galaxies	Galaxies studied	84 rows	(c)
<input type="checkbox"/> J/ApJS/171/101/table1	Luminosity Function Histograms for Globular Clusters and Expected Contaminants	1596 rows	
J/AJ/90/1681	The Virgo Cluster Catalog (VCC) (Binggeli+, 1985)		
<input checked="" type="checkbox"/> J/AJ/90/1681/vcc	Catalog of 2096 galaxies in the Virgo cluster area	2096 rows	(c)
J/MNRAS/333/423	Luminosity function of the Virgo Cluster (Trentham+, 2002)		
<input type="checkbox"/> J/MNRAS/333/423/table2	The sample	449 rows	(c)

Buttons at the bottom of the table list include "Reset All", "Query selected Tables", and "Join selected Tables". A legend indicates that (c) indicates tables which contain celestial coordinates. A yellow callout bubble points to the selected entry with the text "Select the relevant catalogue".

To interact results among themselves or with an external list

1) Choose the tab
« List Of Constraints »

2) Choose
« single table »

3) Insert your file

4) select the column where
apply the constraints
(here: VCC)

5) Set output
« tab-separated-values »

The screenshot shows the VizieR web interface. The 'List Of Constraints' tab is active. The 'Query by Constraints' section shows a list of constraints applied to the column 'VCC'. The 'single table' option is selected. A file 'liste_vcc.txt' is being uploaded. A table of constraints is visible, with 'VCC' selected. A note explains that VCC or TSV files are accepted.

Show	Column	Constraint	Explain (UCD)
<input type="checkbox"/>	recno		Record number within the original table (starting 1) (meta.record)
<input checked="" type="checkbox"/>	RAB1950		" h:m:s " Right ascension (B1950) (pos.eq.ra:meta.main)
<input checked="" type="checkbox"/>	DEB1950		" d:m:s " Declination (B1950) (pos.eq.dec:meta.main)
<input checked="" type="checkbox"/>	VCC		VCC number (meta.id:meta.main)
<input checked="" type="checkbox"/>	LINKED		ask the NED data-base about this object (meta.ref)
<input checked="" type="checkbox"/>	Simbad		ask the Simbad data-base about this object (meta.ref)
<input checked="" type="checkbox"/>	Memb		[MB-] Membership flag (Note 1) (meta.member)
<input checked="" type="checkbox"/>	MType		Morphological type (Note 2) (meta.id)
<input checked="" type="checkbox"/>	BT		Total apparent blue magnitude (Note 3) (meta.mag)
<input checked="" type="checkbox"/>	HRV		Heliocentric radial velocity (Note 4) (meta.vel)
<input type="checkbox"/>	ID		Other name (Note 2) (meta.id)

Note: Votable or TSV files (coming from VizieR) are also accepted

To interact results among themselves or with an external list

```
asu-5.tsv (read only) - /tmp/
File Edit Search Preferences Shell Macro Windows Help
#
# Vizier Astronomical Server cds-dev-gl.u-strasbg.fr 2011-04-05T15:18:35 [V1.71]
# (replaces the 'Astrores' format originally described at
# http://vizier.u-strasbg.fr/doc/astrores.htx)
# In case of problem, please report to: question@simbad.u-strasbg.fr
#
#
#Coosys J2000: eq_FK5 J2000
#INFO -ref=VGL4d9b30796d0d
#INFO -out.form=mini
#INFO -out.max=50
#RESOURCE=yCat_50901681
#Name: J/AJ/90/1681
#Title: The Virgo Cluster Catalog (VCC) (Binggeli+, 1985)
#Coosys B1950: eq_FK4 B1950
#Table J_AJ_90_1681_vcc:
#Name: J/AJ/90/1681/vcc
#Title: Catalog of 2096 galaxies in the Virgo cluster area
#Column _RAJ2000 (F8.4) Right ascension (FK5) Equinox=J2000. (computed by Vizier, not part of th
#Column _DEJ2000 (F8.4) Declination (FK5) Equinox=J2000. (computed by Vizier, not part of the or
#Column RAB1950 (A10) Right ascension (B1950) [ucd=pos.eq.ra]
#Column DEB1950 (A9) Declination (B1950) [ucd=pos.eq.dec]
#Column VCC (I4) VCC number [ucd=meta.id;meta.main]
#Column NED (A3) ask the {\bf\fg{FireBrick}NED} data-base about this object [ucd=meta.ref]
#Column Simbad (A6) ask the {\bf\fg{FireBrick}Simbad} data-base about this object [ucd=meta.ref]
#Column Memb (A1) [MB-] Membership flag (1) [ucd=meta.code.member]
#Column MType (a20) Morphological type in the extended Hubble system [ucd=src.morph.type]
#Column BT (F5.2) Total apparent blue magnitude [ucd=phot.mag;em.opt.B]
#Column HRV (I5) ? Heliocentric velocity [ucd=phys.veloc;pos.heliocentric]
#Column _RAJ2000 _DEJ2000 RAB1950 DEB1950 VCC NED Simbad Memb MType BT HRV
deg deg "h:m:s" "d:m:s"
-----
182.1060 +13.8284 12 05 52.2 +14 06 24 2 NED Simbad M de2:
182.1110 +13.5218 12 05 53.4 +13 48 00 3 NED Simbad BCD?
182.6055 +13.3652 12 07 52.2 +13 38 36 23 NED Simbad de5?
183.0121 +14.9069 12 09 30.0 +15 11 06 40 NED Simbad B Sbc(s)
183.4547 +12.6887 12 11 16.2 +12 58 00 93 NED Simbad de2
183.7677 +9.7538 12 12 31.2 +10 01 54 130 NED Simbad BCD?
184.0800 +9.7472 12 13 46.2 +10 01 30 184 NED Simbad de0?,N
184.1210 +14.0139 12 13 56.4 +14 17 30 193 NED Simbad B S0(tide:
184.6357 +13.1924 12 16 00.0 +13 28 12 293 NED Simbad M de5,N
184.6834 +12.3858 12 16 11.4 +12 39 48 304 NED Simbad de1pec?
184.8607 +6.2575 12 16 53.4 +06 32 06 349 NED Simbad M de0
```

The results arrive as a tab-separated-value file

To interact results among themselves or with an external list

Interaction with an external list of targets

Go directly to catalogue with the VizieR designation

Service - Mozilla Firefox

http://vizier.u-strasbg.fr/viz-bin/VizieR

CDS

Simbad VizieR Aladin Catalogs Dictionary Biblio Tutorials Resources

VizieR Service

Find catalogs among 8474 available

Clear II/125/main Find...

Expand search

Wavelength Mission Astronomy

Radio	AKARI	Abundances
IR	ANS	Ages
optical	ASCA	AGN
UV	BeppoSAX	Associations
EUV	CGRO	Atomic_Data
X-ray	Chandra	Binaries:cataclysmic
Gamma-ray	COBE	Binaries:eclipsing

Search by Position across 8764 tables

Target Name (resolved by [Sesame](#)) or Position: Clear [] Target dimension: 2 arcmin Go!

Radius Box size

[More about VizieR](#) ~ 1 matching catalogs Find Catalogs

Browsing modes: [Designation](#), [Acronyms](#), [Favorites](#), [Dates](#), [Image.spectra](#), [Kohonen](#)
Or list [the large surveys](#)

elapse time 1

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To interact results among themselves or with an external list

1) Choose the tab
« List Of Targets »

2) Choose
« Verbose output »

Modify to
10 arcmin

The screenshot shows the VizieR Search Page interface. The browser title is "VizieR Search Page - CDS". The page has a navigation bar with icons for "Aladin", "Catalogs", "Dict", "Help", "Tutorials", and "Resources". The main content area has two tabs: "Simple Target" and "List Of Targets", with "List Of Targets" selected. Below the tabs, there is a search criteria section with a "Keywords" field containing "II/125/main" and a "Tables" list. The "Preferences" section on the left includes "max: 50", "HTML Table", and "Compute" options like "Distance", "J2000", and "Sort by Distance". The "Position in:" section has "Sexagesimal" selected. The "Mirrors" section shows "CDS, France". The main search area has a "Target dimension" field set to "10 arcmin" and "Radius" selected. Below this, there is a section for "IRAS catalogue of Point Sources, Version 2.0 (IPAC 1986)" with a "ReadMe+ftp" link and a "Similar Catalogs" link. The "List Of Constraints" tab is active, showing a table of constraints with columns "Show", "Column", "Constraint", and "Explain (UCD)". The table lists various constraints such as "recno", "IRAS", "RA1950", "DE1950", "Major", "Minor", "PosAng", "NHcon", "Fnu_12", "e_Fnu_12", and "q_Fnu_12". The "Submit" and "Reset All" buttons are visible at the bottom of the constraints table.

Show	Column	Constraint	Explain (UCD)
<input type="checkbox"/>	recno		Record number within the original table (starting from 1) (meta.record)
<input checked="" type="checkbox"/>	IRAS	(char)	IRAS source name (meta.id:meta.main)
<input checked="" type="checkbox"/>	RA1950	"h:m:s"	Hours RA, equinox 1950.0, epoch 1983.5 (pos.eq.ra:meta.main)
<input checked="" type="checkbox"/>	DE1950	"d:m:s"	Degrees Dec, equinox 1950.0, epoch 1983.5 (pos.eq.dec:meta.main)
<input type="checkbox"/>	Major	arcsec	Uncertainty ellipse major axis (stat.error)
<input type="checkbox"/>	Minor	arcsec	Uncertainty ellipse minor axis (stat.error)
<input type="checkbox"/>	PosAng	deg	Uncertainty ellipse position angle (Note 1) (stat.error:pos.posAng)
<input type="checkbox"/>	NHcon		Number of times observed (meta.number)
<input checked="" type="checkbox"/>	Fnu_12	Jy	Average non-color corrected flux density, 12um (Note 5) (phot.flux.density:em.IR.8-15um)
<input type="checkbox"/>	e_Fnu_12	%	Percent relative flux den. uncertainty, 12um (stat.error)
<input checked="" type="checkbox"/>	q_Fnu_12		[1,3] Flux density quality, 12um (Note 3) (meta.code.qual)

Each position of your input file is separately displayed

Page - Mozilla Firefox

http://vizier.u-strasbg.fr/viz-bin/vizier-4

CDS, France

184.6357 +13.1924
 ⚠ No object found around J2000 position 12:18:32.6+13:11:33
 184.6834 +12.3858
 ⚠ No object found around J2000 position 12:18:44.0+12:23:09
 184.8607 +6.2575

The 3 columns in **color** are computed by VizieR, and are **not part of the original data**.

11. [II/125/main](#) [IRAS catalogue of Point Sources, Version 2.0 \(IPAC 1986\)](#) [ReadMe+ftp](#)
[Post annotation](#) IRAS Point Sources (fluxes in red for upper limits) (245889 rows)

Full	r	RAJ2000	DEJ2000	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_100	q	NLRS
arcmin	"h:m:s"	"d:m:s"			"h:m:s"	"d:m:s"	Jy		Jy		Jy		Jy		
1	8.742	12 18 56.5	+06 10 55	12163+0627	12 16 23.3	+06 27 34	2.50e-01	1	3.42e-01	1	5.28e-01	1	2.02e+00	3	0

185.4311 +10.2344
 ⚠ No object found around J2000 position 12:21:43.5+10:14:04
 185.5454 +11.6428
 ⚠ No object found around J2000 position 12:22:10.9+11:38:34
 185.6038 +9.4895
 ⚠ No object found around J2000 position 12:22:24.9+09:29:22
 186.1798 +11.4847
 ⚠ No object found around J2000 position 12:24:43.2+11:29:05
 186.3170 +6.9515
 ⚠ No object found around J2000 position 12:25:16.1+06:57:05
 186.4001 +15.1932
 ⚠ No object found around J2000 position 12:25:36.0+15:11:36
 186.4268 +7.2149

18. [II/125/main](#) [IRAS catalogue of Point Sources, Version 2.0 \(IPAC 1986\)](#) [ReadMe+ftp](#)
[Post annotation](#) IRAS Point Sources (fluxes in red for upper limits) (245889 rows)

Full	r	RAJ2000	DEJ2000	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_100	q	NLRS
arcmin	"h:m:s"	"d:m:s"			"h:m:s"	"d:m:s"	Jy		Jy		Jy		Jy		
1	0.244	12 25 42.1	+07 13 08	12231+0729	12 23 09.3	+07 29 44	2.64e-01	1	3.14e-01	1	1.79e+00	3	5.17e+00	3	0

186.4469 +11.6665
 ⚠ No object found around J2000 position 12:25:47.3+11:39:59
 186.6452 +0.0916

Rechercher : cfht ◀ Précédent ▶ Suivant ⚡ Tout surligner ☐ Respecter la casse 📄 Bas de la page atteint, poursuite au début

To interact results among themselves or with an external list

Or in a single table if you choose the option in the previous page

The screenshot shows the VizieR Result Page in a Firefox browser. The browser address bar shows the URL: <http://vizier.u-strasbg.fr/viz-bin/VizieR-4>. The page header includes the CDS logo and navigation links for Simbad, VizieR, Aladin, Catalogs, Dictionary, Biblio, Tutorials, and Resources. The main content area displays search criteria and a table of results.

Search Criteria
Save in CDSportal
Keywords: II/125/main
Tables: II/125, ..main, ..assoc
Constraints: List of target
Preferences: max: 50, HTML Table, All columns, Compute
Mirrors: CDS, France

Table of Results:

Full	r	RAJ2000	DEJ2000	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_100	q	NLRS
arcmin	"h:m:s"	"d:m:s"			"h:m:s"	"d:m:s"	Jy		Jy		Jy		Jy		
1	8.742	12 18 56.5	+06 10 55	12163+0627	12 16 23.3	+06 27 34	2.50e-01	1	3.42e-01	1	5.28e-01	1	2.02e+00	3	0
1	0.244	12 25 42.1	+07 13 08	12231+0729	12 23 09.3	+07 29 44	2.64e-01	1	3.14e-01	1	1.79e+00	3	5.17e+00	3	0

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To interact results among themselves or with an external list

Make a crossmatch

Select the IRAS and VCC catalogue

Find catalogs among 8474 available

Clear II/125/main J/AJ/90/1681/vcc Find...

Expand search

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

Search catalogs by column descriptions (UCD) ?

Search by Position across 8764 tables

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

Target dimension: 2 arcmin [] Go!

Radius Box size

~ 2 matching catalogs Find Catalogs

Browsing modes: [Designation](#), [Acronyms](#), [Favorites](#), [Dates](#), [Image.spectra](#), [Kohonen](#)
Or list [the large surveys](#)

elapse time 0

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Rechercher : cfht

Précédent Suivant Tout surligner Respecter la casse Bas de la page atteint, poursuite e

To interact results among themselves or with an external list

VizieR Search Page - Mozilla Firefox

Firefox VizieR Search Page
http://vizier.u-strasbg.fr/viz-bin/VizieR-3

Search Criteria
Simple Target List Of Targets

Target Name (resolved by [Sesame](#)) or Position: J2000 Target dimension: 2 arcmin
Radius Box size

Search Results:

- IRAS catalogue of Point Sources, Version 2.0 (IPAC, 1986)
- II/125 IRAS Point Sources (245889 rows)
- The Virgo Cluster Catalog (VCC) (Binney et al., 1985)
- J/AJ/90/1681 Catalog of 2096 galaxies in the Virgo cluster area (2096 rows)

Preferences
max: 50
HTML Table
All columns
Compute
Distance
Distance (x,y)

Simple Constraint List Of Constraints

Query by [Constraints](#) applied on Columns (Output Order: + -)

Show	Sort	Join tables	Column	Constraint	Explanation
<input type="checkbox"/>	<input type="radio"/>	more join	(ALL) recno		Record number within from 1) (meta.record)
<input checked="" type="checkbox"/>	<input type="radio"/>		(1) IRAS	(char)	IRAS source name (meta.id:m)

Rechercher : cfht

Activate the crossmatch

You can modify the precision

Display only results that match

Limit set by the application

The result in a single table

To interact results among themselves or with an external list

VizieR Result Page

11 correlations found in 501 positions
 Crossmatch truncated to 500 positions in master table

► Show the target form

II/125/main [IRAS catalogue of Point Sources, Version 2.0 \(IPAC 1986\)](#)
 IRAS Point Sources (fluxes in red for upper limits) (245889 rows) [ReadMe+ ftp](#)

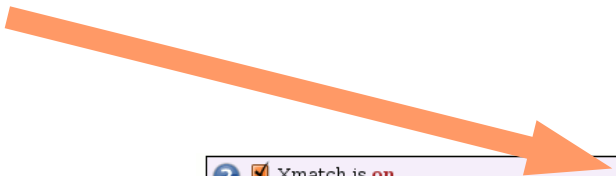
J/AJ/90/1681/vcc [The Virgo Cluster Catalog \(VCC\) \(Binggeli+, 1985\)](#)
 Catalog of 2096 galaxies in the Virgo cluster area (2096 rows) [ReadMe+ ftp](#)

Full	r	RAJ2000	DEJ2000	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_100	q	NLRS	NID	r	RAJ2000	DEJ2000	RAB1950	DEB1950	VCC	NED	Si
	arcsec	"h:m:s"	"d:m:s"		"h:m:s"	"d:m:s"	Jy		Jy		Jy		Jy				arcsec	"h:m:s"	"d:m:s"	"h:m:s"	"d:m:s"			
1	4.0	12 10 37.8	+16 01 57	12080+1618	12 08 04.8	+16 18 38	2.83e-01	2	5.26e-01	3	4.20e+00	3	3.953e+00	3	0	7	0.0	12 10 37.8	+16 02 01	12 08 04.8	+16 18 42.25		NED	Si
2	9.4	12 13 02.7	+07 02 22	12104+0719	12 10 29.4	+07 19 03	5.59e-01	1	4.61e-01	2	4.31e+00	3	3.101e+01	3	0	4	0.0	12 13 03.3	+07 02 25	12 10 30.0	+07 19 06.73		NED	Si
3	4.8	12 13 47.6	+13 25 29	12112+1342	12 11 14.7	+13 42 10	2.50e-01	1	3.56e-01	2	3.29e+00	3	3.870e+00	3	0	4	0.0	12 13 47.3	+13 25 31	12 11 14.4	+13 42 12.89		NED	Si
4	9.9	12 15 54.8	+13 09 04	12133+1325	12 13 22.0	+13 25 44	3.40e-01	1	3.04e-01	1	9.44e-01	1	1.770e+00	3	0	5	0.0	12 15 54.3	+13 08 56	12 13 21.6	+13 25 36.167		NED	Si
5	5.3	12 17 11.2	+15 19 23	12146+1536	12 14 38.7	+15 36 03	2.84e-01	2	7.10e-01	1	2.81e+00	3	3.919e+00	3	0	4	0.0	12 17 11.5	+15 19 26	12 14 39.0	+15 36 06.226		NED	Si
6	7.0	12 18 49.6	+14 24 59	12162+1441	12 16 17.2	+14 41 38	1.00e+00	3	1.35e+00	3	2.31e+01	3	3.725e+01	3	0	5	0.0	12 18 49.2	+14 25 03	12 16 16.8	+14 41 42.307		NED	Si
7	6.7	12 19 09.6	+03 51 24	12166+0408	12 16 36.2	+04 08 03	4.23e-01	1	3.18e-01	1	7.51e-01	3	1.00e+00	1	0	6	0.0	12 19 10.0	+03 51 21	12 16 36.6	+04 08 00.324		NED	Si
8	7.5	12 19 55.5	+05 20 38	12173+0537	12 17 22.3	+05 37 17	5.93e-01	3	1.17e+00	3	3.989e+00	3	3.217e+01	3	0	5	0.0	12 19 56.0	+05 20 39	12 17 22.8	+05 37 18.382		NED	Si
9	8.0	12 20 07.8	+07 41 13	12175+0757	12 17 34.8	+07 57 52	2.50e-01	1	3.28e-01	1	5.30e-01	1	1.154e+00	3	0	3	0.0	12 20 07.8	+07 41 21	12 17 34.8	+07 58 00.393		NED	Si
10	7.8	12 21 12.8	+18 22 59	12186+1839	12 18 41.0	+18 39 37	2.50e-01	1	5.41e-01	2	4.62e+00	3	3.106e+01	3	0	4	0.0	12 21 13.2	+18 23 04	12 18 41.4	+18 39 42.460		NED	Si
11	7.6	12 21 17.8	+11 30 39	12187+1147	12 18 45.2	+11 47 17	2.50e-01	1	3.07e-01	1	2.75e+00	3	3.576e+00	3	0	4	0.0	12 21 17.6	+11 30 46	12 18 45.0	+11 47 24.465		NED	Si

Rechercher : cfft

The result with a « master table » set in the previous page

To interact results among themselves or with an external list



Xmatch is on
 Radius: arcsec Master table:

VizieR Result Page - Mozilla Firefox

http://vizier.u-strasbg.fr/viz-bin/VizieR-4

[CDS](#) [Simbad](#) [VizieR](#) [Aladin](#) [Catalogs](#) [Dictionary](#) [Biblio](#) [Tutorials](#) [Resources](#)

VizieR Result Page

Search Criteria
[Save in CDSportal](#)
 Keywords:
 ■ II/125/main
 ■ J/AJ/90/1681/vcc
Tables
 II/125
 ..main
 .assoc
 J/AJ/90/1681

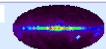
Constraints
 crossmatch


Preferences
 max:
 HTML Table
 All columns
 Compute

Mirrors

Crossmatch truncated to 500 positions in master table

► Show the target form

II/125/main [IRAS catalogue of Point Sources, Version 2.0 \(IPAC 1986\)](#)
 IRAS Point Sources (fluxes in red for upper limits) (245889 rows) [ReadMe+ ftp](#) 

J/AJ/90/1681/vcc [The Virgo Cluster Catalog \(VCC\) \(Binggeli+, 1985\)](#)
 Catalog of 2096 galaxies in the Virgo cluster area (2096 rows) [ReadMe+ ftp](#) 

Full	r	RAJ2000	DEJ2000	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_100	q	NLRS	NID	r	RAJ2000	DEJ2000	RAB1950	DEB1950	VCC	NED Si
	arcsec	"h:m:s"	"d:m:s"		"h:m:s"	"d:m:s"	Jy		Jy		Jy		Jy				arcsec	"h:m:s"	"d:m:s"	"h:m:s"	"d:m:s"		
1																	0.0	12 08 20.0	+13 41 00	12 05 46.8	+13 57 42.1		NED Si
2																	0.0	12 08 25.4	+13 49 42	12 05 52.2	+14 06 24.2		NED Si
3																	0.0	12 08 26.6	+13 31 18	12 05 53.4	+13 48 00.3		NED Si
4																	0.0	12 08 30.8	+15 05 48	12 05 57.6	+15 22 30.4		NED Si
5																	0.0	12 08 33.2	+15 07 18	12 06 00.0	+15 24 00.5		NED Si
6																	0.0	12 08 51.4	+09 07 48	12 06 18.0	+09 24 30.6		NED Si
7																	0.0	12 09 18.9	+11 25 48	12 06 45.6	+11 42 30.7		NED Si
8																	0.0	12 09 21.2	+13 31 30	12 06 48.0	+13 48 12.8		NED Si
9																	0.0	12 09 22.4	+13 59 30	12 06 49.2	+14 16 12.9		NED Si
10																	0.0	12 09 24.8	+13 34 24	12 06 51.6	+13 51 06.10		NED Si
11																	0.0	12 09 35.9	+06 44 36	12 07 02.4	+07 01 18.11		NED Si
12																	0.0	12 09 44.0	+12 07 25	12 07 10.8	+12 24 06.12		NED Si
13																	0.0	12 09 46.4	+13 33 01	12 07 13.2	+13 49 42.13		NED Si
14																	0.0	12 09 51.3	+11 15 25	12 07 18.0	+11 32 06.14		NED Si
15																	0.0	12 09 54.8	+13 03 01	12 07 21.6	+13 19 42.15		NED Si
16																	0.0	12 10 01.3	+14 36 55	12 07 28.2	+14 53 36.16		NED Si
17																	0.0	12 10 01.9	+14 21 43	12 07 28.8	+14 38 24.17		NED Si
18																	0.0	12 10 12.2	+12 19 25	12 07 39.0	+12 36 06.18		NED Si
19																	0.0	12 10 13.9	+13 11 19	12 07 40.8	+13 28 00.19		NED Si
20																	0.0	12 10 18.8	+12 19 49	12 07 45.6	+12 36 30.20		NED Si
21																	0.0	12 10 23.1	+10 11 19	12 07 49.8	+10 28 00.21		NED Si
22																	0.0	12 10 24.1	+13 10 13	12 07 51.0	+13 26 54.22		NED Si
23																	0.0	12 10 25.3	+13 21 55	12 07 52.2	+13 38 36.23		NED Si
24																	0.0	12 10 36.2	+11 45 37	12 08 03.0	+12 02 18.24		NED Si
25	4.0	12 10 37.8	+16 01 57	12080+1618	12 08 04.8	+16 18 38	2.83e-01	2	5.26e-01	3	4.20e+00	3	3.9.53e+00	3	0	7	0.0	12 10 37.8	+16 02 01	12 08 04.8	+16 18 42.25		NED Si
26																	0.0	12 10 40.2	+14 38 49	12 08 07.2	+14 55 30.26		NED Si
27																	0.0	12 10 42.1	+13 19 49	12 08 09.0	+13 36 30.27		NED Si

Rechercher : cfht ◀ Précédent ▶ Suivant ⚡ Tout surligner ☐ Respecter la casse 📄 Bas de la page atteint, poursuite au début

Adjust your result and make some interactions with external tools

The navigation bar is available during your session

Your choice in the main form

List of tables available. Click on « Choose » button or double-click to change your current display

Modify the output format

VizieR can add some computed columns to the output

Return to the constraint page

The screenshot shows the VizieR search criteria and preferences interface. The top section is titled "Search Criteria" and includes a "Save in CDSportal" link, a "Keywords" field with a "Back" button, and a list of keywords: "II/125/main" and "J/AJ/90/1681/vcc". Below this is a "Tables" section with a list of tables: "II/125", "..main", "..assoc", and "J/AJ/90/1681". A "Choose" button is located below the table list. The "Constraints" section shows a red box with the text "12 10 37.8 +16 01 57 (10 arcsec)". Below this is the "Old targets" section with a "Modify Query" button. The bottom section is titled "Preferences" and includes a "max:" field with a value of 50, an "HTML Table" dropdown menu, and a "Compute" section with several checkboxes: "All columns" (unchecked), "Distance" (checked), "Distance (x,y)" (unchecked), "Galactic" (unchecked), "J2000" (checked), "B1950" (unchecked), "Ecl. J2000" (unchecked), and "default" (unchecked). There is also a text input field for "default". Below the "Compute" section are radio buttons for "Sort by Distance" (selected) and "No sort". The "Position in:" section has radio buttons for "Sexagesimal" (selected) and "Decimal °". A "Submit" button is at the bottom right.

For example, the IRAS catalogue

1) Click on the link to display the target form

The screenshot shows the VizieR web interface. At the top, there are navigation links for Simbad, VizieR, Aladin, Catalogs, Dictionary, Biblio, Tutorials, and Resources. Below this is a search bar with the URL <http://vizier.u-strasbg.fr/viz-bin/vizieR-4>. The search criteria section includes a 'Simple Target' form with fields for 'Target Name (resolved by Sesame) or Position', 'Target dimension', and 'Submit'. The table below shows astronomical data with columns for Full, RAJ2000, DEJ2000, IRAS, RA1950, DE1950, Fnu_12, Fnu_25, Fnu_60, Fnu_100, NLRS, and NID. The table is sorted by distance, and the 'B1975' column is highlighted in yellow. A 'ReadMe+ftp' link is visible next to the table title.

3) add the computed column « B1975 »

2) set a target

4) submit

Adjust your result and make some interactions with external tools

Search Criteria
Save in CDSportal
Keywords: II/125/main, J/AJ/90/1681/vcc
Tables: II/125, ..main, ..assoc, J/AJ/90/1681
Constraints: 12 10 37.8 +16 01 57 (1 deg)
Preferences: max: 50, HTML Table, Compute: Distance, J2000, B1975, Sort by Distance: Sexagesimal

The 5 columns in **color** are computed by VizieR, and are **not part of the original data**.

II/125/main IRAS catalogue of Point Sources, Version 2.0 (IPAC 1986)
Post annotation IRAS Point Sources (fluxes in red for upper limits) (245889 rows)

Full	r deg	RAJ2000 "h:m:s"	DEJ2000 "d:m:s"	RAB1975 "h:m:s"	DEB1975 "d:m:s"	IRAS	RA1950 "h:m:s"	DE1950 "d:m:s"	Fnu_12 Jy	q_ Fnu_25 Jy	q_ Fnu_ Jy	Fnu_ Jy	
1	0.00012	12 10 37.8	+16 01 57	12 09 21.3	+16 10 17	12080+1618	12 08 04.8	+16 18 38	2.83e-01	2.5.26e-01	3	4.20e-	
2	0.41531	12 10 07.0	+16 25 45	12 08 50.5	+16 10 05	12075+1642	12 07 34.0	+16 42 26	1.44e+00	3	4.37e-01	1	4.00e-
3	0.50650	12 11 46.3	+16 27 30	12 10 29.9	+16 35 56	12092+1644	12 09 13.5	+16 44 11	2.50e-01	1	3.78e-01	1	4.53e-
4	0.66208	12 13 09.6	+16 17 43	12 11 53.3	+16 26 04	12106+1634	12 10 36.9	+16 34 24	2.50e-01	1	3.11e-01	1	6.41e-
5	0.72563	12 13 37.6	+16 07 24	12 12 21.2	+16 15 45	12110+1624	12 11 04.9	+16 24 05	4.02e-01	1	2.74e-01	1	5.15e-

Available Visualisations:
• Plot the results with the VOPlot utility

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Rechercher : cfht | Précédent | Suivant | Tout surligner | Respecter la casse | Bas de la page atteint, poursuite au début

Save your result into the CDSportal

1) Click on the link

2) Save the result

3) You can now use your result as an entry into Simbad

Search Criteria
[Save in CDSportal](#)

Keywords
Back

Tables
II/125
..main
..assoc
J/AJ/90/1681

Constraint:
12 10 37.8
(10 arcsec
Old targets

Mod

Save

Store VizieR data to CDS Portal

Firefox Store VizieR data to CDS Portal
http://cdsportal.u-strasbg.fr/StoreVizieRData.html?catalogue=II%2F125%2F

CDSCDS
Centre de Données
Astronomiques de Strasbourg

Simbad VizieR Aladin Catalogs Dictionary Biblio Tutorials Resources

Store VizieR data to CDS Portal

Portal My data Login Preferences Register

Target:
Catalogue: II/125/main%20/AJ/90/1681/vcc-110406
Radius:
Filename: II_125_m
Comment: my new

Show my data at the CDS Portal - Mozilla Firefox

Firefox Show my data at the CDS Portal
http://cdsportal.u-strasbg.fr/myData.html?origin=VizieR

CDSCDS
Centre de Données
Astronomiques de Strasbourg

Simbad VizieR Aladin Catalogs Dictionary Biblio Tutorials Resources

Show my data at the CDS Portal

Portal My data Login Preferences Register

Return to VizieR

My saved tables

Query Simbad Query VizieR Upload Delete

<input type="checkbox"/>	Target	Catalogue	File	Output	Creation date	Comment	Origin	Nb rows
<input checked="" type="checkbox"/>	<No target>	II/125/main%20/AJ	II_125_mainJ_AJ_90_1681_vcc-1104	Download	mer 06 avr 2011 09:56:21 CE	my new result coming from VizieR	VizieR	100
<input type="checkbox"/>	<No target>	II/59B/catalog	II_59B_catalog-110406	Download	mer 06 avr 2011 09:55:08 CE	Catalogue of stellar UV	VizieR	50
<input type="checkbox"/>	<No target>	I/239/hip_main,I/239	I_239_hip_main,I_239_tyc_main-1104	Download	mer 06 avr 2011 09:54:34 CE	xmatch tycho	VizieR	100

Send your results to external software (SAMP)

Mozilla Firefox

CDS

Page

nd are *not part of the original data.*

ersion 2.0 (IPAC 1986) [ReadMe+ftp](#)

or upper limits) (245889 rows)

B1975 "l:m:s"	IRAS "h:m:s"	RA1950 "d:m:s"	DE1950 "d:m:s"	Fnu_12 Jy	q	Fnu_3 Jy	q	Fnu_5 Jy	q	Fnu_10 Jy	q	Fnu_15 Jy	q
6 10 17	12080+1618	12 08 04.8	+16 18 38	2.83e-01		3.7e-01		3.42e-01		4.00e-01		4.53e-01	
6 34 05	12075+1642	12 07 34.0	+16 42 26	1.44e+00		1.78e-01		1.40e-01		1.61e-01		1.87e-01	
6 35 50	12092+1644	12 09 13.5	+16 44 11	2.50e-01		3.11e-01		3.11e-01		3.11e-01		3.11e-01	
6 26 04	12106+1634	12 10 36.9	+16 34 24	2.50e-01		3.11e-01		3.11e-01		3.11e-01		3.11e-01	
6 15 45	12110+1624	12 11 04.9	+16 24 05	4.02e-01		2.74e-01		2.74e-01		2.74e-01		2.74e-01	

2) Click on image to activate shared data

Topcat

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List
1: VizieR targets

Current Table Properties
Label: VizieR targets
Name: WebSampConnector:VizieR targets
Rows: 5
Columns: 18
Sort Order:
Row Subset: All
Activation Action: (no action) Broadcast Row

SAMP
Messages: Clients:

Broadcast

1) The samp connector is ready to receive/send shared data

Aladin

Aladin v7.0 *** BETA VERSION (based on v7.027) ***

Position 12:04:35.98 +14:46:33.8

IRAS-IRIS colore

VizieR targets
IRAS-IRIS colore

Zoom 1x

r	RAJ2000	DEJ2000	RAB1975	DEB1975	IRAS	RA1950	DE1950	Fnu_12	q	Fnu_25	q	Fnu_60	q	Fnu_14	q
0.00012	12 10 37.8	+16 01 57	12 09 21.3	+16 10 17	12080+1618	12 08 04.8	+16 18 38	2.83e-01		3.7e-01		3.42e-01		4.00e-01	
0.41531	12 10 07.0	+16 25 45	12 08 50.5	+16 34 05	12075+1642	12 07 34.0	+16 42 26	1.44e+00		1.78e-01		1.40e-01		1.61e-01	
0.50650	12 11 46.3	+16 27 30	12 10 29.9	+16 35 50	12092+1644	12 09 13.5	+16 44 11	2.50e-01		3.78e-01		4.53e-01		3.12e-01	
0.66208	12 13 09.6	+16 17 43	12 11 53.3	+16 26 04	12106+1634	12 10 36.9	+16 34 24	2.50e-01		3.11e-01		3.11e-01		1.87e-01	
0.72563	12 13 37.6	+16 07 24	12 12 21.2	+15 45	12110+1624	12 11 04.9	+16 24 05	4.02e-01		2.74e-01		2.74e-01		1.19e-01	

3) The result is now available