

DataLink

Feedback from an implementation for stellar libraries.

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Victoria, May 2018



Stellar spectral libraries

- Collections of spectra
 - object properties, classification.
 - spectrum.
 - additional files.
 - observation data.
 - finder chart.
 - spectra in different formats/resolutions.
 - auxiliary spectra.
 - preview image.
 - model fit results, analysis...
- Usually served as web pages.
 - Designed to offer everything together, linking different files.
- How to do a similar thing in the VO?
 - CS, SSAP + Datalink?



IWSSL 2017

Orotour Hotel, Campos
de Jordão, SP, Brazil
February 6th - 10th, 2017

International Workshop on Spectral Stellar Libraries

	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-09:30	Opening			David Montes	Claus Leitherer
09:30-10:00		Paula Jofre	Eswar Reddy	Anke Arentsen	Gustavo Bruzual
10:00-10:30					
10:30-11:00				Coffee-break and posters	
11:00-11:30	Coffee-break	Nicolas Lodieu	Bruno Dias	Renbin Yan	Natacha Zanon
11:30-12:00	Analys Gonneau	Riano E. Giribaldi		Yue WU	Luis Gabriel Dahmer Hahn
12:00-12:30	Clare Worley	Rodolfo Smiljanic	Round-table "What does the VO do for us?", chair P. Prugniel	Ranjan Gupta	Closing
12:30-14:30			Lunch		
14:30-15:00	Reynier Peletier	Petr Skoda		Alberto Krone-Martins	Bus leaving Orotour to GRU
15:00-15:30					
15:30-16:00	Alexa Villaume	Philippe Prugniel		Adam Burgasser (Jupyter notebook and github link)	
16:00-16:30	Andre Milone	Carlos Rodrigo		Elizabeth Griffin	
16:30-17:00		Coffee-break		Coffee-break	

Commission G5 WG Stellar Spectral Libraries

Description

Libraries of stellar spectra (SSL) are at the crossroad of different fields of astrophysics. In particular, they serve as reference for the analysis of large spectroscopic surveys, and they are fundamental ingredients of the models of stellar populations used to study galaxies. These libraries may either consist of observed or theoretical spectra, and they vary by their spectral coverage/domain and resolution.

The goals of the WG are to identify the scientific and technical issues linked with SSL, in particular:

- The coverage in wavelength and parameter space of the current and scheduled libraries
- The dissemination of the libraries and their accurate description
- The characterization of the stars

A particular concern is that despite continuous progress on all aspects of SSL, considerable disagreements on the atmospheric parameters and chemical abundances of stars, and on the ages, metallicities of masses of galaxies, persist for decades. Whereas the internal precision these parameters is of the order of 0.02 or 0.03 dex, the actual accuracy is not better than 0.2 dex.

A number of projects faced these issues whose origins are complex, like for example the GAIA Benchmark Stars, a small library of primary calibrators, and the GAIA-ESO Survey. Even for the best studied stars, different approaches do not agree. These uncertainties on the stellar parameters further propagates to the stellar population models, adding up with our limited knowledge of the stellar evolution, contribution of binary stars, and other interpolation of tricky mathematical questions.

The WG will carry-on an inventory of the different attempts made to explain the discrepancies, and will summarize recommendations for actions that would improve the situation.

A report will be prepared before the next IAU GA in 2018.

Search Scientific Bodies

Follow the IAU on social media



IAU General Assembly 2018



- Standardization is important.
 - VO: same formats, access protocols...
- One single service for “everything together”.
 - Not implementing different services for the catalogue, the spectra, the related images...
- Work in progress
 - meeting in Beijing last month,
 - IAU commision report in Viena,
 - meeting next year

Stellar libraries: SVOCat

Stellar Spectral Libraries

CaT. Empirical Calibration of the Near-IR Ca II Triplet

The project is dedicated to the empirical calibration of the Ca II triplet and stellar population synthesis modelling. For this purpose, we make use of a new stellar library of 706 stars in the near-IR spectral range (from 8348 Å to 9020 Å with a FWHM of 1.5 Å) which spans a wide range of updated atmospheric parameters.

(More info)

L and T dwarfs (Chiu et al. 2006)

L and T dwarf data archive from Chiu et al. 2006, Golimowski et al. 2004 and Knapp et al. 2004.

(More info)

STELIB.

The objective of the STELIB Stellar Library is to build an homogeneous library of stellar spectra in the visible range (3200 to 9500Å), including stars of all spectral types, luminosity classes and metallicity that can be observed from the ground with the current instrumentation.

(More info)

X-Shooter Spectral Library

The X-Shooter Spectral Library is a collection of 3000–25000 Å all stellar spectra observed at a resolving power of $R = \lambda/\Delta\lambda \sim 10,000$ with the medium-resolution spectrograph X-Shooter at the Very Large Telescope (VLT).

(More info)

FGKM stellar Library, Yee et al. 2017

Precision Stellar Characterization of FGKM Stars using an Empirical Spectral Library.

(More info)

MILES stellar library

The MILES stellar library consist of ~1000 stars spanning a large range in atmospheric parameters. The spectra were obtained at the 2.5m INT telescope and cover the range 3255–7500Å at 2.50Å (FWHM) spectral resolution.

(More info)

The NIRSPEC Brown Dwarf Spectroscopic Survey. Low-Resolution Data.

The Brown Dwarf Spectroscopic Survey (BDSS) is designed to study near-infrared moderate-to-high resolution spectra for a large sample of low-mass stars and sub-stellar mass objects in the M and newly defined L and T dwarf classes.

(More info)

Gaia FGK Benchmark Stars

The Gaia FGK Benchmark Stars are a common set of calibration stars, covering different regions of the HR diagram and spanning a wide range in metallicity. It is a homogeneous library in the visual range (480–680 nm) of high resolution and signal to noise ratio (S/N) spectra corresponding to the 34 Benchmark Stars and 5 metal-poor candidates.

(More info)

SpeX Prism Library

This site is build as a basis to provide Virtual Observatory access to the published spectra in the SpeX Prism Library.

(More info)

UVES/VLT M subdwarfs

This library presents UVES/VLT high resolution spectra of three late-K subdwarfs and 18 M subdwarfs. Our atlas covers the optical region from 6400Å up to the near infrared at 8900Å. We show spectral details of cool atmospheres at very high resolution ($R=40000$).

(More info)

If you use this service in your research, please include the following acknowledgement in any resulting publications:

"Based on data from the Spectral Stellar Libraries services developed by the Spanish Virtual Observatory in the framework of the IAU Comission G5 Working Group : Spectral Stellar Libraries".



Stellar libraries: SVOCat



The Gaia FGK Benchmark Stars

Library of high resolution and high signal to noise ratio stellar spectra.



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RA (⌚)	DEC (⌚)	Radius (⌚)	Search	Reset	
180 []	[]	[] 180 []	all results	default verb.	(Maximum Search Radius allowed: 180 degrees)

Don't use coordinates as search criterion

Hide additional search fields

Group (⌚)	---
Teff (⌚)	[]
logg (⌚)	[]
[Fe/H] (⌚)	[]

105 data found.

RA (deg)	DEC (deg)	RA (hh:mm:ss)	DEC (hh:mm:ss)	Star (⌚)	Spectra (⌚)	ID (⌚)	Group (⌚)	Teff (⌚) (K)	e_Teff (⌚) (K)	logg (⌚)	e_logg (⌚)	[Fe/H] (⌚)	e_
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco	ESPaDOnS	ESPaDOnS_18Sco-1	G dwarfs	5810	80	4.44	0.03	0.01	
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco	HARPS	HARPS_Archive_18Sco	G dwarfs	5810	80	4.44	0.03	0.01	
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco	NARVAL	NARVAL_18Sco	G dwarfs	5810	80	4.44	0.03	0.01	
316.724802	38.749440	21:06:53.95	38:44:57.99	61CygA	ESPaDOnS	ESPaDOnS_61CygA-1	K dwarfs	4374	22	4.63	0.04	-0.33	
316.724802	38.749440	21:06:53.95	38:44:57.99	61CygA	NARVAL	NARVAL_61CygA	K dwarfs	4374	22	4.63	0.04	-0.33	
316.730266	38.742056	21:06:55.26	38:44:31.40	61CygB	NARVAL	NARVAL_61CygB	K dwarfs	4044	32	4.67	0.04	-0.38	
316.730266	38.742056	21:06:55.26	38:44:31.40	61CygB	ESPaDOnS	ESPaDOnS_61CygB-1	K dwarfs	4044	32	4.67	0.04	-0.38	
219.902058	-60.833993	14:39:36.49	-60:50:02.37	alfCenA	UVES	UVES_alfCenA-1	G dwarfs	5792	16	4.31	0.01	0.24	
219.902058	-60.833993	14:39:36.49	-60:50:02.37	alfCenA	HARPS	HARPS_Archive_alfCenA	G dwarfs	5792	16	4.31	0.01	0.24	
219.902058	-60.833993	14:39:36.49	-60:50:02.37	alfCenA	HARPS	HARPS_Archive_alfCenA-w	G dwarfs	5792	16	4.31	0.01	0.24	
219.896096	-60.837528	14:39:35.06	-60:50:15.10	alfCenB	HARPS	HARPS_Archive_alfCenB-w	G dwarfs	5231	20	4.53	0.03	0.22	
45.569888	4.089739	03:02:16.77	04:05:23.06	alfCet	UVES	UVES_alfCet-1	M giants	3796	65	0.68	0.23	-0.45	
45.569888	4.089739	03:02:16.77	04:05:23.06	alfCet	NARVAL	NARVAL_alfCet	M giants	3796	65	0.68	0.23	-0.45	
45.569888	4.089739	03:02:16.77	04:05:23.06	alfCet	HARPS	HARPS_GBOG_alfCet	M giants	3796	65	0.68	0.23	-0.45	
68.980163	16.509302	04:35:55.24	16:30:33.49	alfTau	UVES	UVES_alfTau	M giants	3927	40	1.11	0.19	-0.37	
68.980163	16.509302	04:35:55.24	16:30:33.49	alfTau	NARVAL	NARVAL_alfTau	M giants	3927	40	1.11	0.19	-0.37	
68.980163	16.509302	04:35:55.24	16:30:33.49	alfTau	HARPS	HARPS_GBOG_alfTau	M giants	3927	40	1.11	0.19	-0.37	
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus	UVES	UVES_Arcturus-1	FGK giants	4286	35	1.64	0.09	-0.53	
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus	ATLAS	ATLAS_Arcturus	FGK giants	4286	35	1.64	0.09	-0.53	
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus	HARPS	HARPS_Archive_Arcturus	FGK giants	4286	35	1.64	0.09	-0.53	
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus	NARVAL	NARVAL_Arcturus	FGK giants	4286	35	1.64	0.09	-0.53	
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus	UVES_POP	UVES_POP_Arcturus	FGK giants	4286	35	1.64	0.09	-0.53	
261.724051	11.730885	17:35:17.00	17:11:47.50	halpha	HARDDC	HARDDC_halpha_halpha	M giants	2107	65	1.15	0.15	-0.55	



Stellar libraries: SVOCat



The Gaia FGK Benchmark Stars

Library of high resolution and high signal to noise ratio stellar spectra.



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RA (?)	DEC (?)	Radius (?)
180		180

Don't use coordinates as search criterion
 Hide additional search fields

Group (?)	---
T _{eff} (?)	
logg (?)	
[Fe/H] (?)	

105 data found.

RA (deg)	DEC (deg)	RA (hh:mm:ss)	DEC (hh:mm:ss)	Star
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco
243.905289	-8.369441	16:15:37.27	-8:22:09.99	18Sco
316.724802	38.794940	21:06:53.95	38:44:57.99	61Cyg
316.724802	38.794940	21:06:53.95	38:44:57.99	61Cyg
167.370266	38.742056	21:06:55.26	38:44:31.40	61Cyg
167.370266	38.742056	21:06:55.26	38:44:31.40	61Cyg
19.902058	-60.833993	14:39:36.49	-60:50:02.37	altCen
19.902058	-60.833993	14:39:36.49	-60:50:02.37	altCen
19.902058	-60.833993	14:39:36.49	-60:50:02.37	altCen
19.896096	-60.837526	14:39:35.60	-60:50:15.10	altCen
45.569888	4.089739	03:02:16.77	04:05:23.06	altCet
45.569888	4.089739	03:02:16.77	04:05:23.06	altCet
45.569888	4.089739	03:02:16.77	04:05:23.06	altCet
68.980163	16.509302	04:35:55.24	16:30:33.49	altTau
68.980163	16.509302	04:35:55.24	16:30:33.49	altTau
68.980163	16.509302	04:35:55.24	16:30:33.49	altTau
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus
213.915300	19.182409	14:15:39.67	19:10:56.67	Arcturus

ID: HARPSArchive_Arcturus

Available links

GBS original spectrum (vot) :	VOTable	(application/x-votable+xml)
GBS original spectrum (ascii) :	ASCII	(text/plain)
GBS original spectrum (fits) :	FITS	(application/fits)
GBS normalized spectrum (vot) :	VOTable	(application/x-votable+xml)
GBS normalized spectrum (ascii) :	ASCII	(text/plain)
GBS normalized spectrum (fits) :	FITS	(application/fits)
GBS original spectrum, resolution: 47.000 (vot) :	VOTable	(application/x-votable+xml)
GBS original spectrum, resolution: 47.000 (ascii) :	ASCII	(text/plain)
GBS original spectrum, resolution: 47.000 (fits) :	FITS	(application/fits)
GBS normalized spectrum, resolution: 47.000 (vot) :	VOTable	(application/x-votable+xml)
GBS normalized spectrum, resolution: 47.000 (ascii) :	ASCII	(text/plain)
GBS normalized spectrum, resolution: 47.000 (fits) :	FITS	(application/fits)
Reference :	Helmi et al. 2015, A&A 582, A49.	(text/html)
Reference :	Blanco-Cuaresma et al. 2014, A&A 566, A98.	(text/html)
Reference :	Jofre et al. 2014, A&A 564, A133.	(text/html)
Reference :	Jofre et al. 2015, A&A 582, A81	(text/html)
Reference :	Hawkins et al. 2016, A&A 592, A70.	(text/html)
Reference :	Jofre et al. 2016, A&A, 601, A38	(text/html)
Reference :	Gaia Benchmark Stars web	(text/html)

UVES	UVES,UVES_Arcturus	Lya gamma	12.95	35	1.64	0.09	-0.53
HARPS	HARPS_Archive_Arcturus	F9G giants	4286	35	1.64	0.09	-0.53
NARVAL	NARVAL_Arcturus	F9G giants	4286	35	1.64	0.09	-0.53
UVES,POP	UVES,POP_Arcturus	F9G giants	4286	35	1.64	0.09	-0.53

VO services?

- We want to be able to link all this information to a main record, with enough visibility
- VO discovery service (SCS, SSA...): get list of records:
 - object
 - coordinates
 - properties
 - SSA: link to spectrum
 - ...
 - + Link to Datalink
 - ⇒ series of links to associated info

VO Service: SSA (SCS)

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  <TD>application/x-votable+xml</TD>
  <TD>17000000</TD>
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```

```
- <TD>application/x-votable+xml;content=datalink</TD>
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  </GROUP>
</RESOURCE>
</VOTABLE>
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VO Service: DataLink

ID	access_url	description	semantics	content_type
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2	ESPA00ns_bevir2	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS original spectrum (ascii)	#auxiliary
3	ESPA00ns_bevir1	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS original spectrum (fits)	#auxiliary
4	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum (vot)	#auxiliary
5	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum (ascii)	#auxiliary
6	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum (fits)	#auxiliary
7	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS original spectrum, resolution: 47,000 (vot)	#auxiliary
8	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS original spectrum, resolution: 47,000 (ascii)	#auxiliary
9	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS original spectrum, resolution: 47,000 (fits)	#auxiliary
10	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum, resolution: 47,000 (vot)	#auxiliary
11	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum, resolution: 47,000 (ascii)	#auxiliary
12	ESPA00ns_bevir3	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?...	GBS normalized spectrum, resolution: 47,000 (fits)	#auxiliary
13	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2015A&A...582A_49H	Reference: Hettler et al. 2015, A&A 582, A49.	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
14	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2014A&A...566A_98B	Reference: Blanco-Cuaresma et al. 2014, A&A 566, A9...	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
15	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2014A&A...564A_133J	Reference: Jofre et al. 2014, A&A 564, A133.	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
16	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2015A&A...582A_81J	Reference: Jofre et al. 2015, A&A 582, A81.	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
17	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2016A&A...592A_70H	Reference: Hawkins et al. 2016, A&A 592, A70.	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
18	ESPA00ns_bevir3	http://cdsads.u-strasbg.fr/abs/2017A&A...601A_3...	Reference: Jofre et al. 2016, A&A, 601, A38	http://www.ivoa.net/rdf/ocabularies/UCD#Met...
19	ESPA00ns_bevir3	https://www.blancocuaresma.com/s/benchmarkstars	Reference: Gaia Benchmark Stars web	http://www.ivoa.net/rdf/ocabularies/UCD#Met...

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</FIELD>

<**DATA>**



TOPCAT

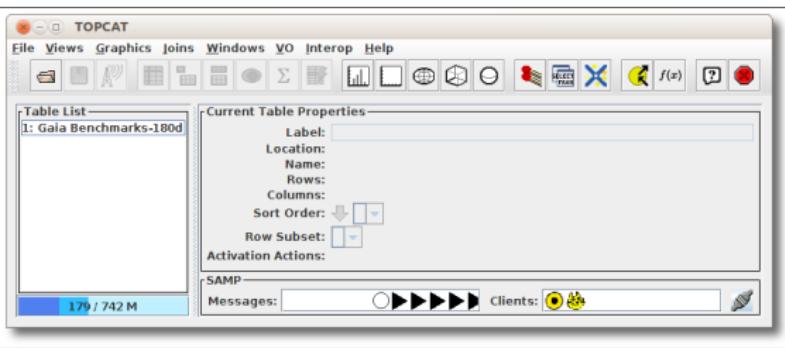
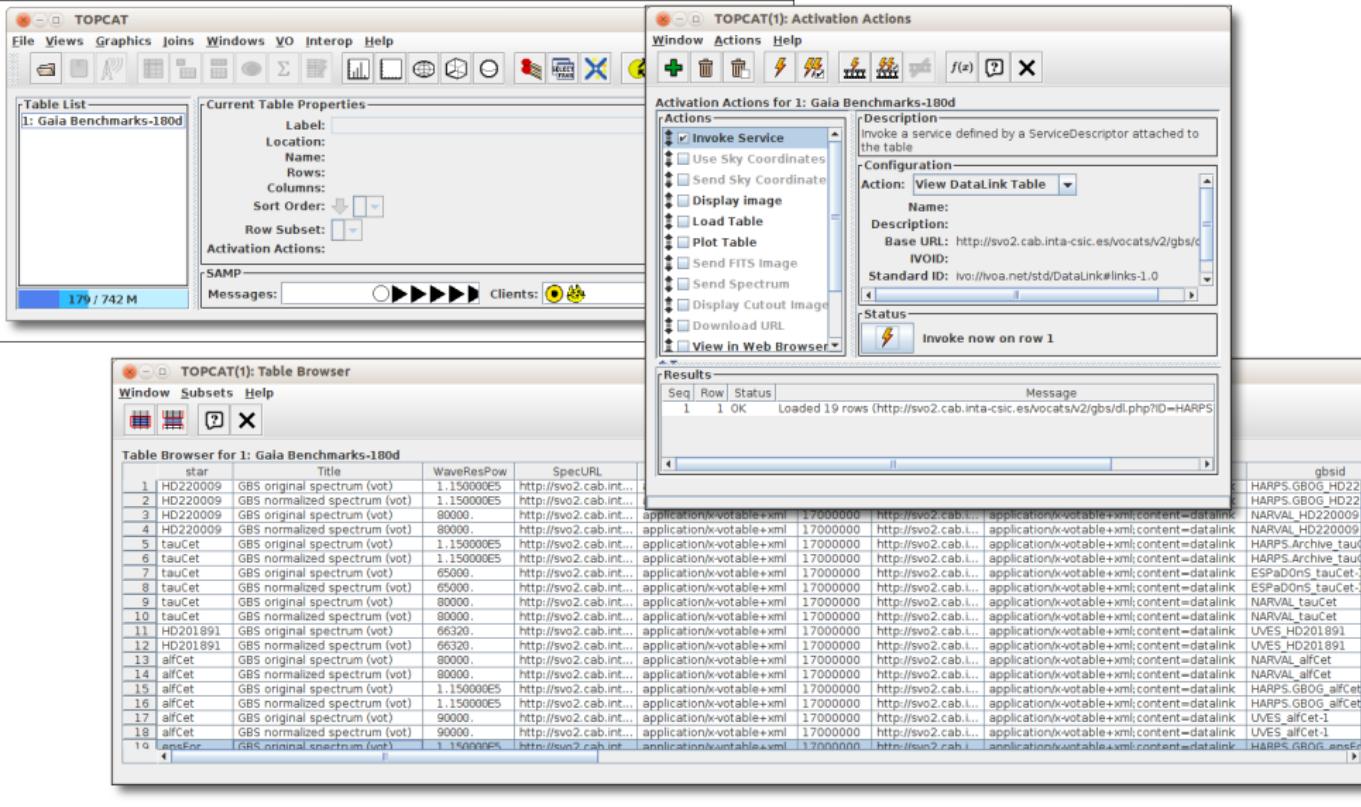


Table Browser for 1: Gala Benchmarks-180d										
	star	Title	WaveResPow	SpecURL	SpecFmt	SpecSize	access_url	access_format	gbstd	
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2	HD220009	GBS normalized spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.GBOG.HD22	
3	HD220009	GBS original spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL.HD22009	
4	HD220009	GBS normalized spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL.HD22009	
5	tauCet	GBS original spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.Archive.tauCet	
6	tauCet	GBS normalized spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.Archive.tauCet	
7	tauCet	GBS original spectrum (vot)	65000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	ESPaDOr5_tauCet	
8	tauCet	GBS normalized spectrum (vot)	65000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	ESPaDOr5_tauCet	
9	tauCet	GBS original spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL_tauCet	
10	tauCet	GBS normalized spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL_tauCet	
11	HD201891	GBS original spectrum (vot)	66320.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	UVES.HD201891	
12	HD201891	GBS normalized spectrum (vot)	66320.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	UVES.HD201891	
13	alfCet	GBS original spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL_alfCet	
14	alfCet	GBS normalized spectrum (vot)	80000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	NARVAL_alfCet	
15	alfCet	GBS original spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.GBOG.alfCet	
16	alfCet	GBS normalized spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.GBOG.alfCet	
17	alfCet	GBS original spectrum (vot)	90000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	UVES.alfCet-1	
18	alfCet	GBS normalized spectrum (vot)	90000.	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	UVES.alfCet-1	
19	lensFor	GBS original spectrum (vot)	1.150000E5	http://sv02.cab.int...	application/x-votable+xml	17000000	http://sv02.cab.i...	application/x-votable+xml;content=datalink	HARPS.GBOG.lensFor	

TOPCAT



C. Rodrigo Blanco

DataLink

TOPCAT

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List — 1: Gaia Benchmarks-180d

Current Table Properties

- Label:
- Location:
- Name:
- Rows:
- Columns:
- Sort Order: ↓
- Row Subset: □
- Activation Actions:

DataLink Table — 176 / 74

semantics	description	content_type	...	ID	access_url	service_def	error_mess
1 #this	GBS original spectrum (vot)	application/x-votable+xml		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
2 #auxiliary	GBS original spectrum (ascii)	text/plain		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
3 #auxiliary	GBS original spectrum (fits)	application/fits		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
4 #auxiliary	GBS normalized spectrum (vot)	application/x-votable+xml		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
5 #auxiliary	GBS normalized spectrum (ascii)	text/plain		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
6 #auxiliary	GBS normalized spectrum (fits)	application/fits		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
7 #auxiliary	GBS original spectrum, resolu...	application/x-votable+xml		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
8 #auxiliary	GBS original spectrum, resolu...	text/plain		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
9 #auxiliary	GBS original spectrum, resolu...	application/fits		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
10 #auxiliary	GBS normalized spectrum, resolu...	application/x-votable+xml		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
11 #auxiliary	GBS normalized spectrum, resolu...	text/plain		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
12 #auxiliary	GBS normalized spectrum, resolu...	application/fits		HARPS.GB0G.HD220009	http://svo2.cab.inta-csic.es/vo...		
13 http://www.voa.n...	Reference: Helter et al. 2015, A...	text/html		HARPS.GB0G.HD220009	http://cdsads.u-strasbg.fr/abs/...		
14 http://www.voa.n...	Reference: Blanco-Cuaresma et al...	text/html		HARPS.GB0G.HD220009	http://cdsads.u-strasbg.fr/abs/...		
15 http://www.voa.n...	Reference: Jofre et al. 2014, A...	text/html		HARPS.GB0G.HD220009	http://cdsads.u-strasbg.fr/abs/...		
16 http://www.voa.n...	Reference: Jofre et al. 2015, A...	text/html		HARPS.GB0G.HD220009	http://cdsads.u-strasbg.fr/abs/...		
17 http://www.voa.n...	Reference: Hawkins et al. 201...	text/html		HARPS.GB0G.HD220009	http://cdsads.u-strasbg.fr/abs/...		

format gbsid

xml:content=datalink HARPS.GB0G.HD220009

xml:content=datalink HARPS.GB0G.HD220009

xml:content=datalink HARVAL.HD220009

xml:content=datalink HARVAL.HD220009

xml:content=datalink HARPSArchive.tau...

xml:content=datalink ESPaDOr5_tauet...

xml:content=datalink HARVAL_tauet...

xml:content=datalink HARVAL_tauet...

xml:content=datalink LIVES.HD201891

xml:content=datalink LIVES.HD201891

xml:content=datalink HARVAL_alphaC...

xml:content=datalink HARPS.GB0G_alphaC...

xml:content=datalink HARPS.GB0G_alphaC...

xml:content=datalink LIVES_alphaC...

xml:content=datalink LIVES_alphaC...

xml:content=datalink HARPS.GB0G_alphaC...

Row Link Type — Fixed Access URL

Row Detail —

access_url: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GB0G.HD220009&label=ori_vot

content_type: application/x-votable+xml

content_length:

description: GBS original spectrum (vot)

semantics: #this

URL: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GB0G.HD220009&label=ori_vot

Type: TABLE Action: Load Table Invoke

Result:

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List
1: Gaia Benchmarks-180d
2: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot

Current Table Properties
Label: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Location: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Name: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Rows: 200,000
Columns: 3
Sort Order: ↑
Row Subset: All

DataLink Table
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semantics	description	content_type	ID	access_url	service_def	error_mess
1 #this	GBS original spectrum (vot)	application/x-votable+xml	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
2 #auxiliary	GBS original spectrum (ascii)	text/plain	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
3 #auxiliary	GBS original spectrum (fits)	application/fits	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
4 #auxiliary	GBS normalized spectrum (vot)	application/x-votable+xml	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
5 #auxiliary	GBS normalized spectrum (ascii)	text/plain	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
6 #auxiliary	GBS normalized spectrum (fits)	application/fits	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
7 #auxiliary	GBS original spectrum, resolu...	application/x-votable+xml	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
8 #auxiliary	GBS original spectrum, resolu...	text/plain	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
9 #auxiliary	GBS original spectrum, resolu...	application/fits	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
10 #auxiliary	GBS normalized spectrum, res...	application/x-votable+xml	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
11 #auxiliary	GBS normalized spectrum, res...	text/plain	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
12 #auxiliary	GBS normalized spectrum, res...	application/fits	HARPS.GBOG HD220009	http://svo2.cab.inta-csic.es/vo...		
13 http://www.voa.n...	Reference: Helfer et al. 2015, ...	text/html	HARPS.GBOG HD220009	http://cdsads.u-strasbg.fr/abs/...		
14 http://www.voa.n...	Reference: Blanco-Cuarezma e...	text/html	HARPS.GBOG HD220009	http://cdsads.u-strasbg.fr/abs/...		
15 http://www.voa.n...	Reference: Jofre et al. 2014, A...	text/html	HARPS.GBOG HD220009	http://cdsads.u-strasbg.fr/abs/...		
16 http://www.voa.n...	Reference: Jofre et al. 2015, A...	text/html	HARPS.GBOG HD220009	http://cdsads.u-strasbg.fr/abs/...		
17 http://www.voa.n...	Reference: Hawkins et al. 201...	text/html	HARPS.GBOG HD220009	http://cdsads.u-strasbg.fr/abs/...		

Row Link Type — Fixed Access URL
Row Detail —
access_url: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot
content_type: application/x-votable+xml
content_length:
description: GBS original spectrum (vot)
semantics: #this
URL: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot
Type: TABLE Action: Load Table Invoke
Result:

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List — Current Table Properties —
1: Gaia Benchmarks-180d
2: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot

Label: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Location: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Name: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Rows: 200,000
Columns: 3
Sort Order: Row Subset: All

DataLink Table —
semantics description
1 #@this GBS original spectrum (vot)
2 #auxiliary GBS original spectrum (ascii)
3 #auxiliary GBS original spectrum (fits)
4 #auxiliary GBS normalized spectrum (vot)
5 #auxiliary GBS normalized spectrum (ascii)
6 #auxiliary GBS normalized spectrum (fits)
7 #auxiliary GBS original spectrum, resol
8 #auxiliary GBS original spectrum, resol
9 #auxiliary GBS original spectrum, resol
10 #auxiliary GBS normalized spectrum, resol
11 #auxiliary GBS normalized spectrum, resol
12 #auxiliary GBS normalized spectrum, resol
13 http://www.voca... Reference: Helter et al. 2015
14 http://www.voca... Reference: Blanco-Cuaresma
15 http://www.voca... Reference: Jofre et al. 2014, A
16 http://www.voca... Reference: Jofre et al. 2015, A
17 http://www.voca... Reference: Hawkins et al. 2013

TOPCAT(2): Table Browser —
Table Browser for 2: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot

	wavelength	flux	error
1	4800.	0.33784	0.00138
2	4800.01	0.33918	0.00138
3	4800.02	0.34006	0.00139
4	4800.03	0.33807	0.00138
5	4800.04	0.33011	0.00135
6	4800.05	0.32109	0.00131
7	4800.06	0.31473	0.00128
8	4800.07	0.30529	0.00124
9	4800.08	0.2909	0.00119
10	4800.09	0.2726	0.00111
11	4800.1	0.25574	0.00104
12	4800.11	0.24291	0.00099
13	4800.12	0.23388	0.00095
14	4800.13	0.23334	0.00095
15	4800.14	0.23936	0.00098
16	4800.15	0.24742	0.00101

Row Link Type — Fixed Access URL —
Row Detail —
access_url: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
content_type: application/x-votable+xml
content_length:
description: GBS original spectrum (vot)
semantics: #this
URL: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
 Type: TABLE Action: Load Table Invoke
Result:

TOPCAT

TOPCAT window showing various data management and visualization features:

- Table List:** Gaia Benchmarks-180d, ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot
- Current Table Properties:** Label: ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot, Location: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot, Name: ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot, Rows: 200,000, Columns: 3, Sort Order: Ascending, Row Subset: All.
- DataLink Table:** A table browser showing rows 69 to 74 of the current table, listing semantic types and descriptions for various GBS spectra.
- Table Browser:** A detailed view of the first 15 rows of the current table, showing columns wavelength, flux, and error.
- Plane Plot:** A scatter plot of flux versus wavelength in angstrom, showing a red spectrum with significant noise.
- Row Link Type:** Fixed Access URL.
- Row Detail:** Access URL: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot, Content Type: application/x-votable+xml, Content Length: 1000000, Description: GBS original spectrum (vot), Semantics: #this.
- URL:** http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG_HD220009&label=ori_vot
- Action:** Load Table
- Result:** 200,000 rows loaded.

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List Current Table Properties

Label: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Location: http://svo2.cab.inta-csic.es/vocats/v2/gbs/ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Name: ssap.php?ID=HARPS.GBOG HD220009&label=ori_vot
Rows: 200,000
Columns: 3
Sort Order:
Row Subset: All

DataLink Table

semantics	description	content_type	ID	access_url	content_def	error_message
1 #this	GBS original spectrum (vot)					
2 #auxiliary	GBS original spectrum (ascii)					
3 #auxiliary	GBS original spectrum (fits)					
4 #auxiliary	GBS normalized spectrum (vot)					
5 #auxiliary	GBS normalized spectrum (ascii)					
6 #auxiliary	GBS normalized spectrum (fits)					
7 #auxiliary	GBS original spectrum, resol					
8 #auxiliary	GBS original spectrum, resol					
9 #auxiliary	GBS original spectrum, resol					
10 #auxiliary	GBS normalized spectrum, resol					
11 #auxiliary	GBS normalized spectrum, resol					
12 #auxiliary	GBS normalized spectrum, resol					
13 http://www.voca...	Reference: Heiter et al. 2013					
14 http://www.voca...	Reference: Blanco-Cuaresma					
15 http://www.voca...	Reference: Jofré et al. 2014,					
16 http://www.voca...	Reference: Jofré et al. 2015,					
17 http://www.voca...	Reference: Hawkins et al. 2015					

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[Refereed Citations to the Article](#)

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[Associated Articles](#)

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Title: Gaia FGK benchmark stars: Effective temperatures and surface gravities

Authors: Heiter, U.; Jofré, P.; Gustafsson, B.; Korn, A. J.; Soubiran, C.; Thévenin, F.

Affiliation: AA(Institutionen för fysik och astronomi, Uppsala universitet, Box 516, 751 20, Uppsala, Sweden)
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Publication: *Astronomy & Astrophysics*, Volume 582, id.A49, 33 pp. ([A&A Homepage](#))

Publication Date: 10/2015

Aladin v10.0

Aladin v10.0

Command 17:44:08.70 -51:50:02.6

Frame J2000

Projection Spheric

DSS2 color

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED svo.cab/cat/miles +

svo.cab/cat/gbs

Field: access_url
Value:
http://svo2.cab.inta-csic.es/vocabs
• UCD: metas.ref.url
• Utpe: obscoreAccess:Reference
Link to DataLink

select pan dist phot draw tag msc zoom filter cross x-y r-g-i asec crop cont pixel prop epoch del size dens. opac. zoom

180° x 85.47°

grid study wkt north hem multiview match

Search

ra dec dis star obsid origin ingroup teff e_teff logg e_logg vsini e_vsini feh e

#	access_url	RA	DEC	dis	star	obsid	origin	ingroup	teff	e_teff	logg	e_logg	vsini	e_vsini	feh	e
More info	266.0362... -51.8340...	269.1590...	-51.8340...	nuLra	HARPS_Arc...	HARPS	G dwarfs	G dwarfs	5902	66	4.3	0.03	2.2	0.8	0.33	
More info	266.0362... -51.8340...	269.1590...	-51.8340...	nuLra	UVES_pu...	UVES	G dwarfs	G dwarfs	5902	66	4.3	0.03	2.2	0.8	0.33	
More info	213.9153... 19.18240...	308.209...	19.18240...	Arcturus	NARVAL_Arc...	NARVAL	M giants	M giants	4197	50	1.05	0.15	5.4	1	-0.05	
More info	213.9153... 19.18240...	308.209...	19.18240...	Arcturus	ATLAS_Arc...	ATLAS	FGK giants	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
More info	213.9153... 19.18240...	308.209...	19.18240...	Arcturus	UVES_Arc...	UVES	FGK giants	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
More info	213.9153... 19.18240...	308.209...	19.18240...	Arcturus	UVES_Pop...	UVES	FGK giants	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
More info	213.9153... 19.18240...	308.209...	19.18240...	Arcturus	HARPS_Arc...	HARPS	FGK giants	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	

20:25:50.24640 +15:11:07.0

20:25:50.25 +15:11:07.0
180° x 85.47°

26 sel/80 src 271ps/499mb

O. Roitano Branco DataLink

Aladin v10.0

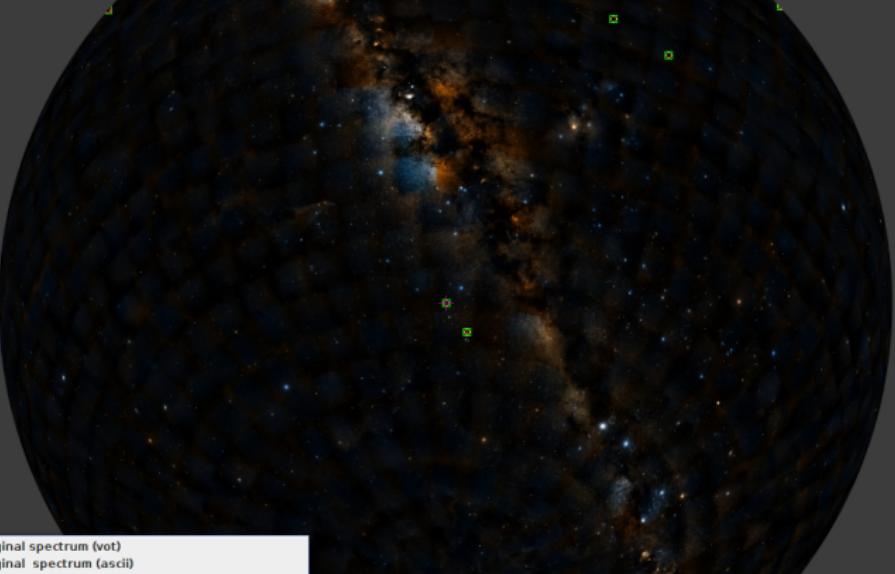
Aladin v10.0

File Interop Help

Command 22:35:08.48 -66:13:24.6

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED [svo.cab/cat/miles](#) +

DSS2 color



Projection Spheric

ALADIN

Tools menu:

- select
- pan
- dist
- phot
- draw
- tag
- moc
- filter
- cross
- x-y
- rgb
- ellip
- crop
- cont
- model
- prop
- epoch
- size
- done
- opacity
- zoom

Legend:

- svo.cab/cat/gbs~2
- svo.cab/cat/gbs~1
- ivo.cat/cat/gbs
- cds/p/DSS2/color

Search

180° x 85.47°

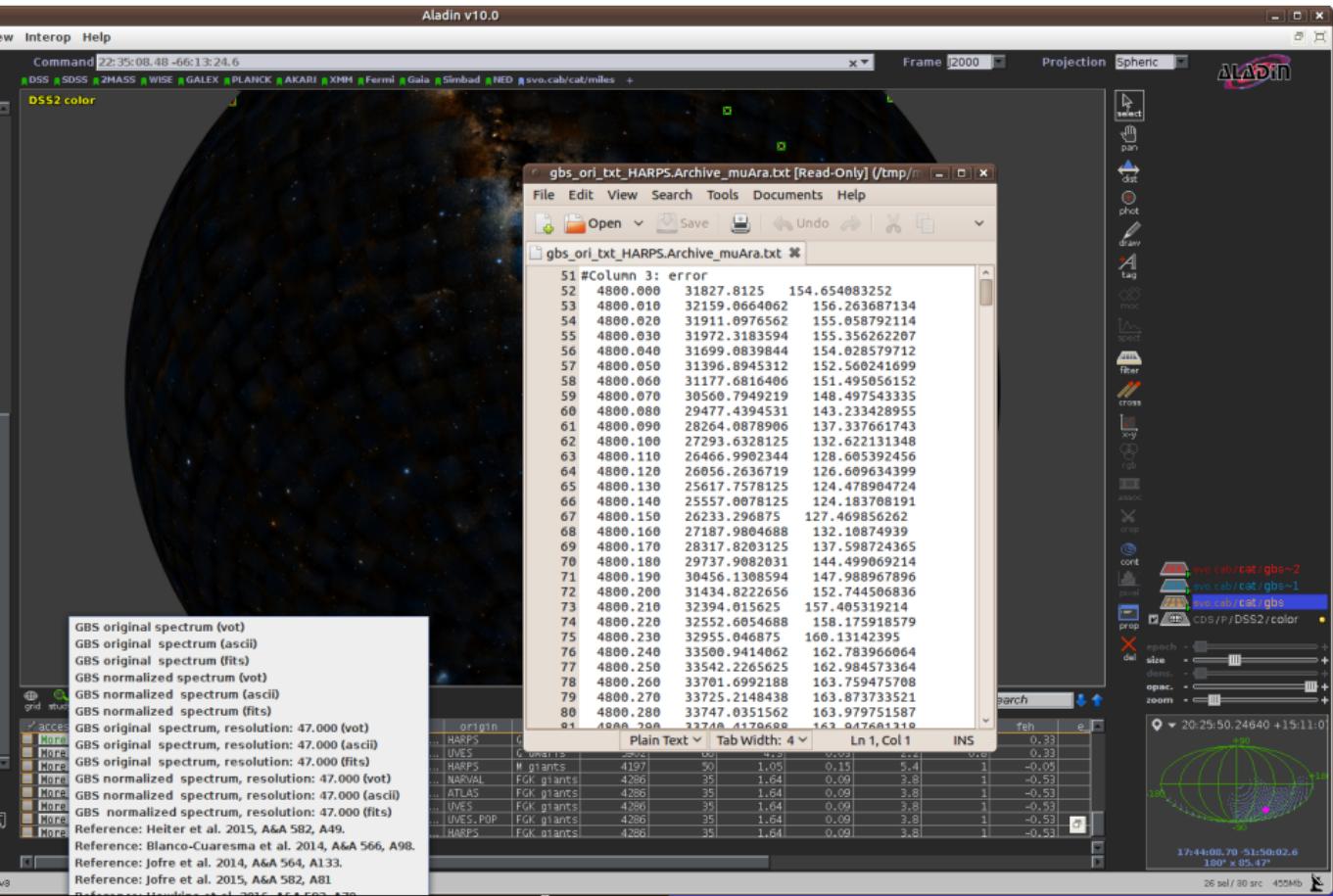
Table of stellar parameters:

origin	ingroup	teff	e_teff	logg	e_logg	vsini	e_vsini	feh	e_feh
HARPS	G dwarfs	5902	66	4.3	0.03	2.2	0.8	-0.33	
UVES	G dwarfs	5902	66	4.3	0.03	2.2	0.8	-0.33	
UVES	M giants	4197	50	1.05	0.15	5.4	1	-0.05	
NARVAL	FGK giants	4296	35	1.64	0.09	3.8	1	-0.53	
ATLAS	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
UVES	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
UVES, POP	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
HARPS	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	

Reference: Heiter et al. 2015, A&A 582, A49.
Reference: Blanco-Cuaresma et al. 2014, A&A 566, A98.
Reference: Jofre et al. 2014, A&A 564, A133.
Reference: Jofre et al. 2015, A&A 582, A81.

Coordinates: 20:25:50.24640 +15:11:01.0
Epoch: 17:44:08.70 51:59:02.6
Size: 180° x 85.47°
Sel: 26 sel / 30 src 455Mb

Aladin v10.0



Aladin v10.0

Aladin v10.0

File Interop Help

Command 22:35:08.48 -66:13:24.6

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED avo.cat/cat/miles +

DSS2 color

SAO/NASA ADS Astronomy Abstract Service

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- References Cited by the Article
- SIMBAD Objects (316)
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- Also Read Articles (Reads History)
- Translate This Page

Title: Gaia PGK benchmark stars: Metallicity
Authors: Jofré, P.; Heiter, U.; Soubiran, C.; Blanco-Cuaresma, S.; Worley, C. C.; Pancino, E.; Cantat-Gaudin, T.; Martínez, I.; Bergemans, M.; González Hernández, J. I.; Hill, V.; Lardo, C.; de Laverny, P.; Lind, K.; Masseron, T.; Montes, D.; Mucciarelli, A.; Nordlander, T.; Recio-Blanco, A.; Sobeck, J.; Sordo, R.; Souza, S. G.; Tabernerero, H.; Vallenari, A.; Van Eck, S.

Affiliation: AllInstitute of Astronomy, University of Cambridge, Madingley Rd, Cambridge, CB3 0HA, UK; pofre@ast.cam.ac.uk; LAB UMR 5804, Univ. Bordeaux, CNRS, 33270, Floirac, France; AllInstitute of Physics and Astronomy, University of Bielefeld, Universitätsstrasse 2, 3350, Bielefeld, Germany; AllInstitute of Physics and Astronomy, University of Cambridge, Madingley Rd, Cambridge, CB3 0HA, UK; Laboratoire Lagrange (UMR7293), Univ. Nice Sophia Antipolis, CNRS, Observatoire de la Côte d'Azur, 06304, Nice, France; AllInstitute of Physics and Astronomy, University of Bielefeld, Universitätsstrasse 2, 3350, Bielefeld, Germany; ASI Science Data Center, via del Politecnico n. 00133, Roma, Italy; AHINAF/Osservatorio Astronomico di Padova, Viafissina 3, 35122, Padova, Italy; AHINAF/Osservatorio Astrofisico di Arcetri, Largo Enrico Fermi 5, 50125, Firenze, Italy; AllInstitute of Astronomia, University of Cambridge, Madingley Rd, Cambridge, CB3 0HA, UK; Max-Planck-Institut für Astrophysik, Karl-Schwarzschild-Str. 1, 85741, Garching, Germany; AllInstitute of Astronomia, 38200 La Laguna, Tenerife, Spain; ANI/INAF/Osservatorio Astronomico di Brera, Via Frascati 33, 00133, Roma, Italy; AllInstitute of Astronomia, CNR, Osservatorio Astronomico di Capodimonte, Via Moiariello 16, 80131, Napoli, Italy; ALINAF - Osservatorio Astronomico di Bologna, via Panzani 1, 40127, Bologna, Italy; AM/Laboratoire Lagrange (UMR7293), Univ. Nice Sophia Antipolis, CNRS, Observatoire de la Côte d'Azur, 06304, Nice, France; AN/Institute of Astronomy, University of Cambridge, Madingley Rd, Cambridge, CB3 0HA, UK; AO/Institute of Astronomy, University of Cambridge, Madingley Rd, Cambridge, CB3 0HA, UK; Institut d'Astrophysique et d'Astrophysique, Univ. Libre de Bruxelles, CP 226, Bd du Triomph 1050

GBS original spectrum (vot)
GBS original spectrum (ascii)
GBS original spectrum (fits)
GBS normalized spectrum (vot)
GBS normalized spectrum (ascii)
GBS normalized spectrum (fits)

GBS original spectrum, resolution: 47,000 (vot)
GBS original spectrum, resolution: 47,000 (ascii)
GBS original spectrum, resolution: 47,000 (fits)
GBS normalized spectrum, resolution: 47,000 (vot)
GBS normalized spectrum, resolution: 47,000 (ascii)
GBS normalized spectrum, resolution: 47,000 (fits)
Reference: Heiter et al. 2015, A&A 582, A49.
Reference: Blanco-Cuaresma et al. 2014, A&A 566, A98.
Reference: Jofré et al. 2014, A&A 564, A133.
Reference: Jofré et al. 2015, A&A 582, A81.

180° × 85.47°

Search

origin	ingroup	teff	e_teff	logg	e_logg	vini	e_vini	feh	e_feh
HARPS	G dwarfs	5902	66	4.3	0.03	2.2	0.8	-0.33	
HARPS	G dwarfs	5902	66	4.3	0.03	2.2	0.8	-0.33	
HARPS	M giants	4197	50	1.05	0.15	5.4	1	-0.05	
NARVAL	FGK giants	4296	35	1.64	0.09	3.8	1	-0.53	
ATLAS	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
UVES	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
UVES, POP	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	
HARPS	FGK giants	4286	35	1.64	0.09	3.8	1	-0.53	

180° × 85.47°

Search

prop

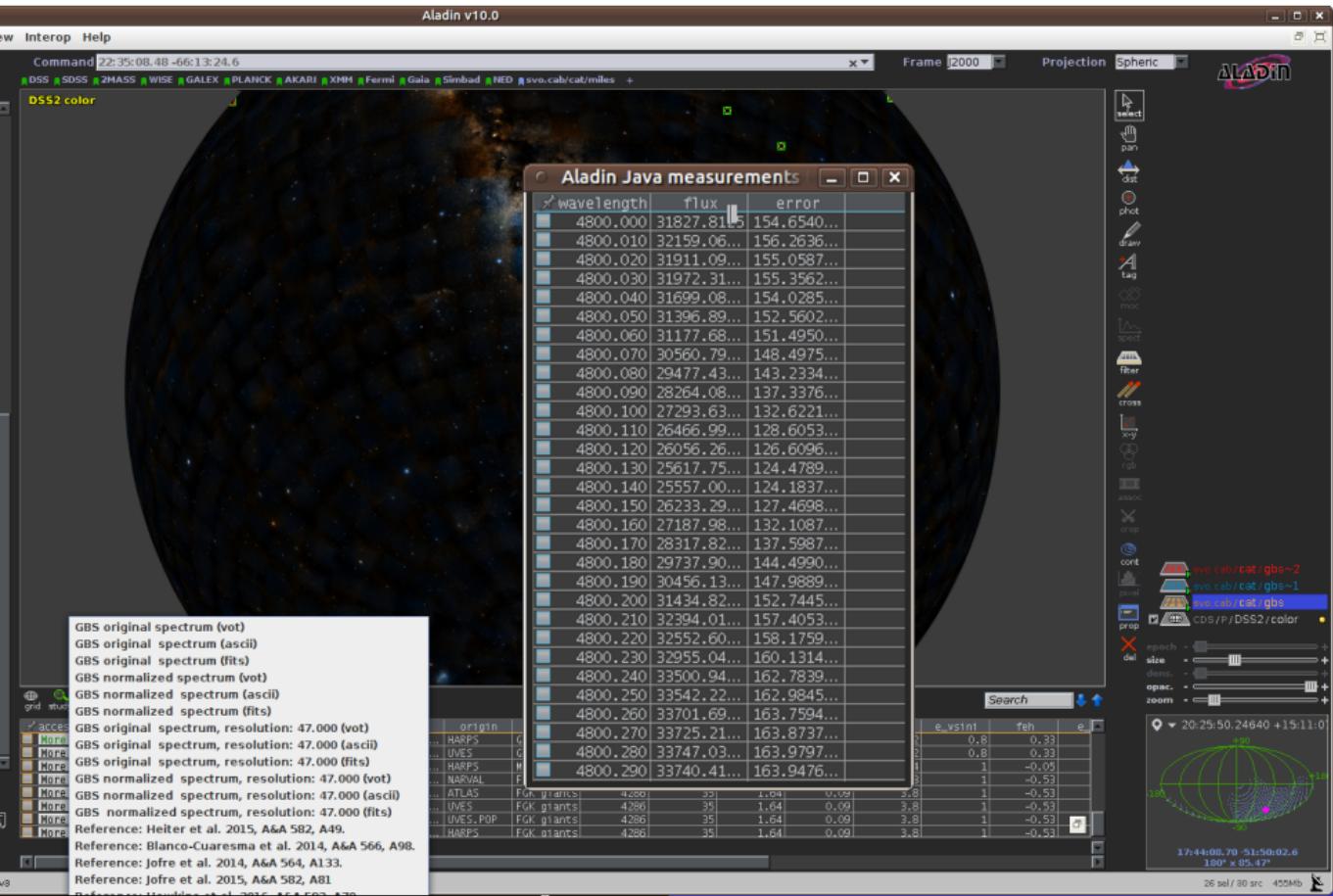
20:25:50.24640 +15:11:01

17:44:08.70 51:59:02.6 180° × 85.47°

26 sel / 30 src 455MB

This screenshot shows the Aladin v10.0 software interface. The main window displays a star map with several green boxes highlighting specific stellar regions. A sidebar on the left lists various astronomical datasets and services. The central area shows an abstract from the SAO/NASA ADS Astronomy Abstract Service for a paper by Jofré et al. (2015). Below the abstract is a table of stellar spectra parameters. On the right, there are various controls for the map view, including zoom levels and coordinate information. A legend at the bottom right identifies different data types: 'avo.cat/cat/gbs~2', 'avo.cat/cat/gbs~1', 'avo.cat/cat/gbs', and 'cds/p/DSS2/color'. The bottom status bar indicates the current selection count (26 sel / 30 src) and memory usage (455MB).

Aladin v10.0



SPLAT-VO 3.14

Starlink SPLAT-VO: Query VO for Spectra

File Options Besolver Interop Help

Service selection options

Data Source Observed data Theoretical data

Wave Band

- Radio Millimeter Infrared
- Optical UV EUV
- X-ray Gamma-ray ALL

Tags

SSAP Servers

short name	title
AXIS-XMS	AXIS-XMS Optical Spec...
BEPS	Berkeley Extreme and ...
BeSS	Be Stars Spectra
califa ssa	CALIFA DR3
CaT library	CaT library: Empirical C...
CDFS SSAP	Optical Spectroscopy I...
CfA Hectospec	CfA Hectospec Spectra
Chandra	Chandra Observations
Chiu2006	L and T dwarf (Chiu et ...)
COROT ARCHIVE	The COROT PUBLIC AR...
CSIRO ASKAP SSA	CSIRO ASKAP Science ...
EHSTHLSA/SSA	European Hubble Leg...
EHST/HST SSAP	European HST SSAP ...
ELodie	ELodie archive
ELodieInterp	Spectrum interpolator...
ELVE	Extreme Ultraviolet Ex...
F/H Orders SSAP	FlashHeros Split-Orde...
FEROS SSAP	FEROS Public Spectra
FlashHeros SSAP	FlashHeros SSAP
FUSE	Far Ultraviolet Spectro...
Gaia Benchmarks	The Gaia FGK Benchm...
GALEx	Galaxy Evolution Explor...
GAUDIvo	SSAP for GAUDI
H.E.S.S.	High Energy Stereosc...
HEAVENS @ ISDC	Mining the HEAVENS w...
Herschel SSAP	Herschel ESA Archive ...
HFA	HyperLeda FITS Archiv...
HIG	HI Extragalactic Datab...
HPOL	Wisconsin Halfwave Sp...
HST EDS Spectra	Hubble Space Telesco...

Search parameters:

Simple Query

Object: **Lookup** **Clear**

Radius: **MAXREC:**

Band:

Time:

Query Format:

Wavelength calibration:

Flux calibration:

Optional Parameters

User	Name	Value	UCD

Query: <SERVER>?REQUEST=queryData&POS=15.0,1.0&SIZE=122.0

SEND QUERY

Query results:

Gaia Benchmarks

Ind.	Title	Npoints	access_url	access_format	SpecSize	SpectralSI	AssocKey	AssocID
1	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	ori_vot	assoc_HARPS_Archive_tauCet
2	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	ori_txt	assoc_HARPS_Archive_tauCet
3	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_HARPS_Archive_tauCet
4	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	nor_vot	assoc_HARPS_Archive_tauCet
5	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	nor_bt	assoc_HARPS_Archive_tauCet
6	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_HARPS_Archive_tauCet
7	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	ori_vot	assoc_ESPAOns_tauCet-1
8	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	ori_bt	assoc_ESPAOns_tauCet-1
9	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_ESPAOns_tauCet-1
10	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	ori_vot	assoc_ESPAOns_tauCet-1
11	GBS normalized spectrum (as..)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	nor_bt	assoc_ESPAOns_tauCet-1
12	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_ESPAOns_tauCet-1
13	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	ori_vot	assoc_NARVAL_tauCet
14	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	ori_bt	assoc_NARVAL_tauCet
15	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_NARVAL_tauCet
16	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	nor_vot	assoc_NARVAL_tauCet
17	GBS normalized spectrum (as..)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	nor_bt	assoc_NARVAL_tauCet
18	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_NARVAL_tauCet
19	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	ori_vot	assoc_HARPS_GBOG_HD2200...
20	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	ori_bt	assoc_HARPS_GBOG_HD2200...
21	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_HARPS_GBOG_HD2200...
22	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	17000000	1E-10 L	nor_vot	assoc_HARPS_GBOG_HD2200...
23	GBS normalized spectrum (as..)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	10000000	1E-10 L	nor_bt	assoc_HARPS_GBOG_HD2200...
24	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/v...	application/x-votable+e...	1600000	1E-9 L	ori_fits	assoc_HARPS_GBOG_HD2200...

Display selected **Display all** **Download selected** **Download all** **Deselect table** **Deselect all** **DataLink Services**

Save query results **Restore query results** **Close**

Navigation icons: Back, Forward, Home, Stop, Refresh, Search, etc.

SPLAT-VO 3.14

Links

ID	access_url	description	semantics	content_type
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsN2/gbs/ss...	GBS original spectrum (vot)	#this	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS original spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS original spectrum (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS original spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS original spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocatsV2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://cdsads.u-strasbg.fr/abs/2015A&A...58...	Reference: Heiter et al. 2015, A&A 582, A49.		http://www/text/html

Value UCD

all Deselect all Update

SEND QUERY

Close

Ind..	Title	Npoints	access_url	access_format	SpecSize	SpectralSI	AssocKey	AssocID
1	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	ori_vot	assoc_HARPS_Archive_tauCet
2	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	ori_txt	assoc_HARPS_Archive_tauCet
3	GBS original spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	ori_fits	assoc_HARPS_Archive_tauCet
4	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	nor_vot	assoc_HARPS_Archive_tauCet
5	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	nor_bt	assoc_HARPS_Archive_tauCet
6	GBS normalized spectrum	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	nor_fits	assoc_HARPS_Archive_tauCet
7	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	ori_vot	assoc_ESPADOns_tauCet-1
8	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	ori_bt	assoc_ESPADOns_tauCet-1
9	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	ori_fits	assoc_ESPADOns_tauCet-1
10	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	nor_vot	assoc_ESPADOns_tauCet-1
11	GBS normalized spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	nor_bt	assoc_ESPADOns_tauCet-1
12	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	nor_fits	assoc_ESPADOns_tauCet-1
13	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	ori_vot	assoc_NARVAL_tauCet
14	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	ori_bt	assoc_NARVAL_tauCet
15	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	ori_fits	assoc_NARVAL_tauCet
16	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	nor_vot	assoc_NARVAL_tauCet
17	GBS normalized spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	nor_bt	assoc_NARVAL_tauCet
18	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	nor_fits	assoc_NARVAL_tauCet
19	GBS original spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	ori_vot	assoc_HARPS_GBOG_HD2200...
20	GBS original spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	ori_bt	assoc_HARPS_GBOG_HD2200...
21	GBS original spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	ori_fits	assoc_HARPS_GBOG_HD2200...
22	GBS normalized spectrum (vot)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	17000000	1E-10 L	nor_vot	assoc_HARPS_GBOG_HD2200...
23	GBS normalized spectrum (ascii)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	10000000	1E-10 L	nor_bt	assoc_HARPS_GBOG_HD2200...
24	GBS normalized spectrum (fits)	200000	http://svo2.cab.inta-csic.es/vo...	application/x-votable+xml	1600000	1E-9 L	nor_fits	assoc_HARPS_GBOG_HD2200...

Display selected Display all Download selected Download all Deselect table Deselect all DataLink Services

Save query results

Restore query results

Close

SPLAT-VO 3.14

Links

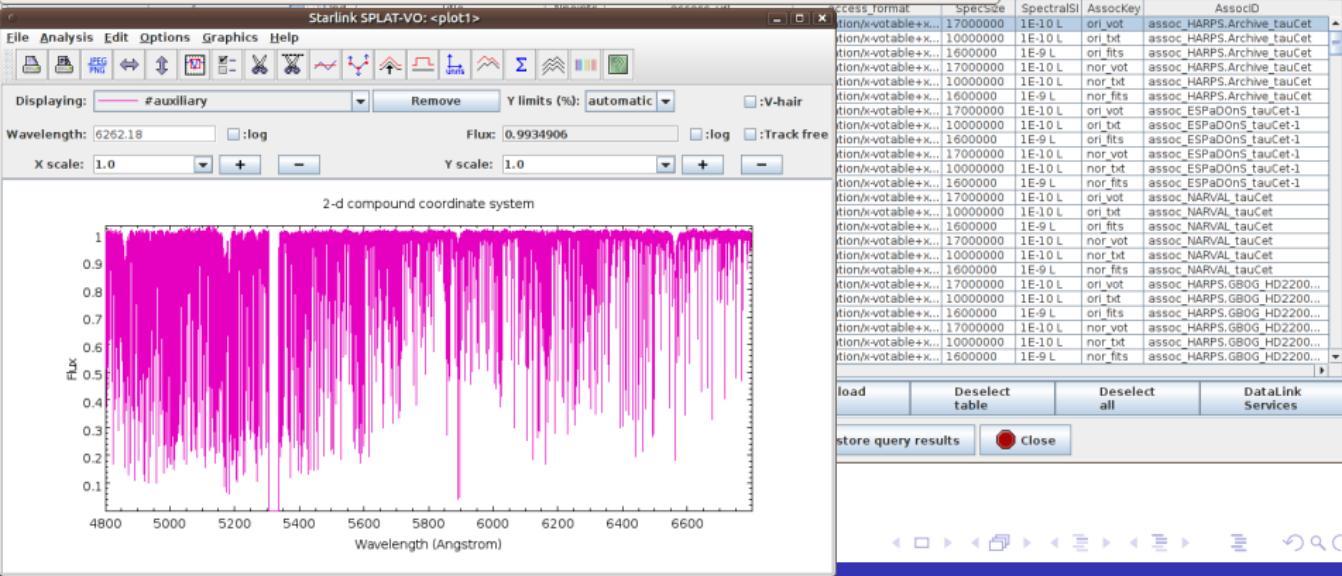
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HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum (fits)	#auxiliary	application/fits
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HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://cdsads.u-strasbg.fr/abs/2015A&A...58...	Reference: Heiter et al. 2015, A&A 582, A49.	http://ww...	text/html

Value UCD

all Deselect all Update

SEND QUERY

Close



SPLAT-VO 3.14

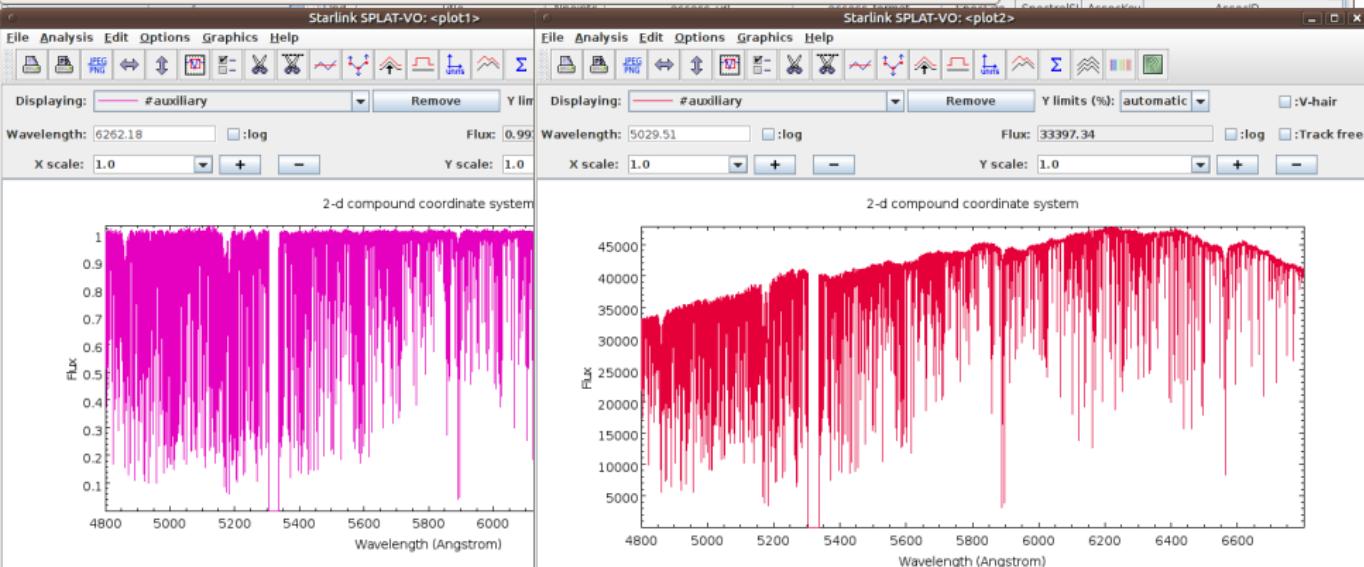
Links

ID	access_url	description	semantics	content_type
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum (vot)	#this	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (vot)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS original spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (vot)	#auxiliary	application/x-vota...
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (ascii)	#auxiliary	text/plain
HARPS.Archive_tauCet	http://svo2.cab.inta-csic.es/vocats/v2/gbs/ss...	GBS normalized spectrum, resolution: 47.000 (fits)	#auxiliary	application/fits
HARPS.Archive_tauCet	http://cdsads.u-strasbg.fr/abs/2015A&A...58...	Reference: Heiter et al. 2015, A&A 582, A49.	http://ww...	text/html

Value UCD

at all Deselect all Update SEND QUERY

Close



DataLink Semantics

Datalink core ontology

This is the description of the namespace <http://www.ivoa.net/rdf/datalink/core/core> as of 2014-10-30.

Terms in this vocabulary are intended for use in the semantics column in the output from the DataLink-1.0 {links} capability. The terms here describe the relationship of the linked resource to the thing identified by the input ID value(s) and ID field in the record.

As specified in DataLink-1.0, terms from the vocabulary may be used in the DataLink output using only the fragment (e.g. #word) form (since this is the core vocabulary). We use this form below as the short form of the equivalent fully qualified term (e.g. <http://www.ivoa.net/rdf/datalink/core#word>).

Alternate formats: [RDF](#) [TTL](#)

Predicate	Parent	Label	Comment
#this		the data itself	the primary (as opposed to related) data of the identified resource
#progenitor		Progenitor	data resources that were used to create this dataset (e.g. input raw data)
#derivation		Derivation	data resources that are derived from this dataset (e.g. output data products)
#auxiliary		Auxiliary	auxiliary resources
#weight	#auxiliary	Weight map	resource with array(s) containing weighting values
#error	#auxiliary	Error map	resource with array(s) containing error values
#noise	#auxiliary	Noise map	resource with array(s) containing noise values
#calibration		Calibration data	resource used to calibrate the primary data
#bias	#calibration	Bias calibration data	used to subtract the detector offset level
#dark	#calibration	Dark calibration data	used to subtract the accumulated detector dark current
#flat	#calibration	Flat field calibration data	data used to calibrate variations in detector sensitivity
#preview		Preview	low fidelity but easily viewed representation of the data
#preview-image	#preview	Image preview	preview of the data as a 2-dimensional image
#preview-plot	#preview	Plot preview	preview of the data as a plot (e.g. spectrum or light-curve)
#proc		Processing	server-side data processing result
#cutout	#proc	Cutout	a subsection of the primary data

DataLink Semantics

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Terms in this vocabulary are intended for use in the semantics column in the output from the DataLink-1.0 {links} capability. The terms here describe the relationship of the linked resource to the thing identified by the input ID value(s) and ID field in the record.

As specified in DataLink-1.0, terms from the vocabulary are intended for use in the semantics column in the output from the DataLink-1.0 {links} capability. We use this form below as the short form.

Alternate formats: [RDF](#) [TTL](#)

Predicate	Parent	Label
#this		the data itself
#progenitor		Progenitor
#derivation		Derivation
#auxiliary		Auxiliary
#weight	#auxiliary	Weight map
#error	#auxiliary	Error map
#noise	#auxiliary	Noise map
#calibration		Calibration data
#bias	#calibration	Bias calibration data
#dark	#calibration	Dark calibration data
#flat	#calibration	Flat field calibration da
#preview		Preview
#preview-image	#preview	Image preview
#preview-plot	#preview	Plot preview
#proc		Processing
#cutout	#proc	Cutout

more precise vocabulary?

- auxiliary-spectrum
 - auxiliary-spectrum-science
 - auxiliary-spectrum-error
- auxiliary-image
- auxiliary-bibcode
- ...

server-side data processing result
a subsection of the primary data

- applications understand datalink as one would expect.

⇒ Good

although visibility of datalink is not always that good

- SSA: more than one column with URL's

- not easy to find out which one is the spectrum and which one is the datalink
 - “tricks” are needed.

⇒ Need some improvement in protocol (?)

- Datalink content / semantics

- Not enough semantics information to identify link content.
 - For instance, “this is a spectrum”

⇒ We need more terms in Datalink vocabulary (?)

THANK YOU!