

DataLink

Working on an implementation for stellar libraries.

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²Spanish Virtual Observatory

IVOA Interoperability meeting
Shaanghai, May 2017



- Collections of spectra
 - object properties, classification.
 - spectrum.
 - additional files.
 - observation data.
 - spectra in different formats/resolutions.
 - auxiliary spectra.
 - 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?
 - Datalink?

Stellar libraries IWSSL meeting

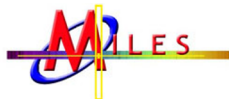


International Workshop on Spectral Stellar Libraries

	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-09:30	Opening	Paula Jofre	Eswar Reddy	David Montes	Claus Leitherer
09:30-10:00	Cristina Chiappini			Anke Arentsen	Gustavo Bruzual
10:00-10:30	Coffee-break	Coffee-break and posters			
10:30-11:00		Nicolas Lodieu	Bruno Dias	Renbin Yan	Natacha Zanon
11:00-11:30	Anals Gonneau	Riano E. Giribaldi	Round-table "What does the VO do for us?", chair P. Prugniel	Yue WU	Luis Gabriel Dahmer Hahn
12:00-12:30	Clare Worley	Rodolfo Smiljanic		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				Adam Burgasser	

- 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...
- Improvements in protocols and applications for spectra.

Stellar libraries: MILES



Population Synthesis
for the 21st Century



OVERVIEW

TEAM

PAPERS

STELLAR LIBRARIES

MILES LIBRARY

CAT LIBRARY

STELLAR PARAMETERS

THE CATALOGUE

SSP MODELS

SPECTRAL ENERGY
DISTRIBUTIONS (SEDs)

PHOTOMETRIC PREDICTIONS

OTHER PREDICTIONS

LINE INDEX SYSTEM (LIS)

WEBTOOLS

SOFTWARE

ACKNOWLEDGEMENTS

CONTACT US

NEWS

985 entries in total

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Ordered by RA

0^h < RA < 24^h

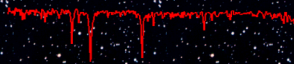
-90° < Dec < 90°

Change

Name	RA	Dec	E(B-V)	SpT	Teff	logg	[Fe/H]	Vmag	Libs	CaT #
BD+130013 [f]	00:12:30.3	+14:33:48.6	0.011	K0	5000	3	-1.31	8.59		0
HD000004 [f]	00:05:09.2	+30:19:44.4	0.037	F0	6380	3.01	0.3	7.77		0
HD000245 [f]	00:08:50.8	+86:47:16.4	0	G2V	5348	4.5	-1.16	8.37	E	0
HD000249 [f]	00:05:09.2	+30:19:44.4	0.037	K1IV	4717	2.4	-0.34	7.33	J I	158
HD000319 [f]	00:07:46.9	-22:30:31	0.012	A1V	8140	3.8	-0.7	5.942		0
HD000400 [f]	00:08:40.9	+36:37:37.6	0.007	F8IV	6205	4.12	-0.33	6.223	J I E	0
HD000448 [f]	00:09:02.4	+18:12:43.2	0.025	G9III	4710	2.56	0.05	5.565		0
HD000886 [f]	00:13:14.2	+15:11:01	0.015	B2IV	21581	3.86	0.06	2.83	I E	0
HD001326B [f]	00:18:22.9	+44:01:22.4	0.001	M6 V	3330	5.08	-1.4	11.04	L	691
HD001461 [f]	00:18:41.9	-08:03:10.8	0.044	G0V	5808	4.39	0.2	6.46	L	160
HD001918 [f]	00:23:43.2	+45:05:20.8	0.037	G9III	4865	2.01	-0.55	7.62	J I	161
HD002628 [f]	00:30:07.4	+29:45:05.8	0.012	A7III	7325	3.59	0	5.219	I E	0
HD002665 [f]	00:30:45.4	+57:03:53.6	0.051	G5IIIwe	5013	2.35	-1.96	7.75	L I E	162
HD002796 [f]	00:31:16.9	-16:47:40.9	0.01	Fw	4945	1.36	-2.31	8.51	I E	0
HD002857 [f]	00:31:53.8	-05:15:42.9	0	A2 (HB)	7450	2.6	-1.6	9.95	L I	163
HD003008 [f]	00:33:14.3	-10:43:42.6	0.02	K0	4331	0.84	-1.87	9.7		0
HD003369 [f]	00:36:52.8	+33:43:09.5	0.025	B5V	15276	4.1	-0.2	4.335	E	0
HD224930 [f]	00:02:10.2	+27:04:56.3	0.011	G3 V	5305	4.49	-0.75	5.75	L I E	673

Search

Empirical Calibration of the **Near-IR Ca II Triplet**

[Home](#)[General](#)[Stellar Library](#)[Database](#)[Software](#)[Paper I](#)[Paper II](#)[Paper III](#)[Paper IV](#)

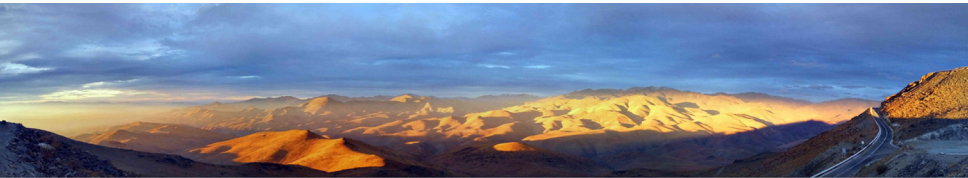
Send comments
to:

ben@astrax.lis.ucm.es

Spectral Database

Data spectrum	Error spectrum	Name	Spec. Type	T _{eff} (K)	log g	[Fe/H]	S/N per Å
sp001	err001	Coma A 3	G9 V	4974	4.530	-0.05	39.2
sp002	err002	Coma A 13	K0 V	5284	4.540	-0.05	28.4
sp003	err003	Coma A 14	G4 V	5224	4.320	-0.05	46.9
sp004	err004	Coma A 21	G7 V	5110	4.410	-0.05	37.5
sp005	err005	Coma T 65	G0 V	5918	4.300	-0.05	48.4
sp006	err006	Coma T 68	A6 IV-V	7905	4.090	-0.05	59.4
sp007	err007	Coma T 82	A9 V	7352	4.130	-0.05	55.4
sp008	err008	Coma T 85	G1 V	5918	4.380	-0.05	59.8
sp009	err009	Coma T 86	F6 V	6402	4.270	-0.05	54.5
sp010	err010	Coma T 90	F5 V	6359	4.280	-0.05	54.7
sp011	err011	Coma T 97	F9 V	6032	4.340	-0.05	44.8
sp012	err012	Coma T 102	G1 V	5844	4.360	-0.05	31.6
sp013	err013	Coma T 114	F8 V	6446	4.300	-0.05	52.1

Stellar libraries: Gaia benchmark stars



The Gaia FGK Benchmark Stars

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



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. We have created 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. The library provides a powerful tool to assess spectral analysis methods and cross-calibrate spectroscopic surveys. The latest version of the spectra can be downloaded from this site or directly from the [FTP](#). We thank you to cite [Blanco-Cuaresma et al. \(2014\)](#) whenever this library is used.

Show entries

Search:

Group	Spectrum	Star	Teff	log(g)	[Fe/H]	[Ti/H]	[Ni/H]	Vmic	Vmac	Vsin(i)	R	S/N
F dwarfs	ESPaDOnS_HD49933-1	HD49933 [s]	6635	4.20	-0.46	-0.39	-0.53	1.48	10.83	10.0	65000	1169

Initial resolution [\[FITS\]](#) [\[Compressed TXT\]](#)

Initial resolution, normalized [\[FITS\]](#) [\[Compressed TXT\]](#)

Resolution 47,000 [\[FITS\]](#) [\[Compressed TXT\]](#)

Resolution 47,000, normalized [\[FITS\]](#) [\[Compressed TXT\]](#)

F dwarfs	HARPS.Archive_HD49933	HD49933 [s]	6635	4.20	-0.46	-0.39	-0.53	1.48	10.83	10.0	115000	319
F dwarfs	HARPS.GBOG_HD84937-1	HD84937 [s]	6356	4.06	-2.09	-1.66	-2.06	1.29	8.59	5.2	115000	546
F dwarfs	NARVAL_HD84937	HD84937 [s]	6356	4.06	-2.09	-1.66	-2.06	1.29	8.59	5.2	80000	212

Catalogue: Late-type Subdwarfs

The SVO late-type subdwarf archive



[Home](#)
[Data retrieval](#)
[News](#)
[Documentation](#)
[Coverage Map](#)
[Help-Desk](#)

RA (?)	DEC (?)	Radius (?)	Search	Reset
180		180	10 results	maximum verb.

(Maximum Search Radius allowed: 180 degrees)

Don't use coordinates as search criterion

[\[-\] Hide additional search fields](#)

Magnitude ranges (?)		Color ranges (?)	
---	-	---	-
---	-	---	-
---	-	---	-
Teff (?)			

- To get the list of confirmed ultracool subdwarfs (193 objects), click here
- To get the list of solar-metallicity dwarfs (7 objects), click here
- To get the list of subdwarfs strictly earlier than sdM5 (2 objects), click here

First 193 results shown (193 found)

RA (ICRS) (deg)	DEC (ICRS) (deg)	RA (ICRS) (hh:mm:ss)	DEC (ICRS) (hh:mm:ss)	Links	objID (?)	Teff (?) (K)	e_Teff (?) (K)	PM (?)	HR (?)	SpType (?)	Refs (?)	SDSS_u
182.616125	3.582111	12:10:27.87	03:34:55.60	Finder Chart	SDSS_J12102787+0334556	3400	50			usdM6	24	24.4
183.487333	-2.923750	12:13:56.96	-2:55:25.50	Finder Chart	ULAS_J121356.96-0255255	3100	50	0.114	22.324		15	25.4
179.586542	4.583722	11:58:20.77	04:35:01.40	Finder Chart	2MASS_J11582077+0435014					sdL7	9	
179.610917	4.796333	11:58:26.62	04:47:46.80	Finder Chart	ULAS_J11582662+0447468	2700	50			sdM9.5	14	24.5
176.219458	-3.239000	11:44:52.67	-3:14:20.40	Finder Chart	J114452.67-031420.4	3100	50			esdM7.0	12	26.0
175.004958	0.617778	11:40:01.19	00:37:04.00	Finder Chart	ULAS_J114001.19+0037040	2600	50	0.134	23.472		15	26.5
183.784875	4.033472	12:15:08.37	04:02:00.50	Finder Chart	ULAS_J12150837+0402005	3000	50			sdM7.0	14	24.4
180.560917	7.520500	12:02:14.62	07:31:13.80	Finder Chart	ULAS_J12021462+0731138	3300	50			esdM7.0	14	23.9
171.760750	0.500806	11:27:02.58	00:30:02.90	Finder Chart	SDSS_J11270258+0030029	3200	50			sdM6.5	24	22.8
184.553542	7.102889	12:18:12.85	07:06:10.40	Finder Chart	SDSS_J12181285+0706104	3200	50			sdM6	24	24.3
184.553583	7.102889	12:18:12.86	07:06:10.40	Finder Chart	SDSS_J12181286+0706104	3200	50	0.251	22.231	sdM6.0	15	24.3
174.686042	6.902778	11:38:44.65	06:54:10.00	Finder Chart	SDSS_J11384465+0654100	3000	50	0.17	22.687	esdM5.0	15	24.1
172.861250	-5.059944	11:31:26.70	-5:03:35.80	Finder Chart	LHS_2419	2800	50			sdM5.5	7	22.9
189.247625	-0.366167	12:36:59.43	00:21:58.20	Finder Chart	ULAS_J12365943-0021582	3300	50			esdM5.5	14	24.0
189.606050	-1.055500	12:34:47.77	-1:07:23.40	Finder Chart	ULAS_J123447.77-0107234	3300	50	0.344	21.075		14	24.2

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RA (ICRS) (deg)	DEC (ICRS) (deg)	RA (ICRS) (hh:mm:ss)	DEC (ICRS) (hh:mm:ss)	Links	objID (?)	Teff (?) (K)	e_Teff (?) (K)	PM (?)	HR (?)	SpType (?)	Refs (?)	SDSS_u
182.616125	3.582111	12:10:27.87	03:34:55.60	Finder Chart	SDSS_J12102787+0334556	3400	50			usdM6	24	24.0
183.487333	-2.923750	12:13:56.96	-2:55:25.50	Finder Chart	ULAS_J121356.96-0255255	3100	50	0.114	22.324	sdM9.5	15	25.0
179.586542	4.583722	11:58:20.77	04:35:01.40	Finder Chart	2MASS_J11582077+0435014					sdL7	9	
179.610917	4.796333	11:58:26.62	04:47:46.80	Finder Chart	ULAS_J11582662+0447468	2700	50			sdM9.5	24	24.0
176.219458	-3.239000	11:44:52.67	-3:14:20.40	Finder Chart	J114452.67-031420.4	3100	50			esdM7.0	12	26.0
175.004958	0.617778	11:40:01.19	00:37:04.00	Finder Chart	ULAS_J114001.19+0037040	2600	50	0.134	23.472	sdM7.0	15	26.0
183.784875	4.033472	12:15:08.37	04:02:00.50	Finder Chart	ULAS_J12150837+0402005	3000	50			sdM7.0	14	24.0
180.560917	7.520500	12:02:14.62	07:31:11.38	Finder Chart	ULAS_J12021462+0731113	3300	50			esdM7.0	24	23.0
171.760750	0.500806	11:27:02.58	00:30:02.58	Finder Chart	SDSS_J11270258+0030029	3200	50			sdM6.5	14	22.0
184.553542	7.102889	12:18:12.85	07:06:10.40	Finder Chart	SDSS_J12181285+0706104	3200	50			sdM6	24	24.0
184.553583	7.102889	12:18:12.86	07:06:10.40	Finder Chart	SDSS_J12181286+0706104	3200	50	0.251	22.231	sdM6.5	15	24.0
174.686042	6.902778	11:38:44.65	06:54:10.00	Finder Chart	SDSS_J11384465+0654100	3000	50	0.17	22.687	esdM5.0	15	24.0
172.861250	-5.059944	11:31:26.70	-5:03:35.80	Finder Chart	LHS_2419	2800	50			sdM5.5	7	22.0
189.247625	-0.366167	12:36:59.43	00:21:58.20	Finder Chart	ULAS_J12365943-0021582	3300	50			esdM5.5	14	24.0
168.696958	-1.956500	11:14:47.27	-1:57:23.40	Finder Chart	ULAS_J111447.27-0157234	3300	50	0.244	21.975	sdM6.5	15	25.0
168.494708	3.193806	11:13:58.73	03:11:37.70	Finder Chart	SDSS_J11135873+0311377	3200	50	0.127	22.224	esdM6.5	15	25.0
175.867417	11.372750	11:43:28.18	11:22:21.90	Finder Chart	SDSS_J11432818+1122219	3000	50	0.249	23.425	sdM5.5	15	22.0
191.591250	4.719417	12:46:21.90	04:43:09.90	Finder Chart	ULAS_J12462190+0443099	3400	50			esdM5.0	14	23.0
192.893283	-0.932083	12:51:34.45	00:55:55.50	Finder Chart	SDSS_J12513445-0055555	3100	50	0.14	22.732	sdM7.0	15	23.0
166.713708	4.804139	11:06:51.29	04:48:14.90	Finder Chart	J110651.29+044814.9	2900	50			sdM8.5	12	24.0
166.713708	4.804167	11:06:51.29	04:48:15.00	Finder Chart	SDSS_J11065129+0448150	2900	50	0.297	22.934	sdM8.5	15	24.0
194.149625	-0.329139	12:56:35.91	00:19:44.90	Finder Chart	ULAS_J12563591-0019449	3300	50			esdM6.0	14	25.0
194.154833	-2.414500	12:56:37.16	-2:24:52.20	Finder Chart	SDSS_J12563716-0224522	2600	50			sdL3.5-4	23	24.0
165.074250	1.205194	11:00:17.82	01:12:18.70	Finder Chart	SDSS_J11001782+0112187	3000	50	0.119	22.263	sdM7.0	15	23.0
166.091083	5.623333	11:04:21.86	05:37:24.00	Finder Chart	SDSS_J11042186+0537240	2600	50	0.118	21.924	usdM5.0	15	26.0
191.107197	10.411639	12:44:25.90	10:24:41.90	Finder Chart	ULAS_J12442590+1024419	2700	50			sdL0.5	14	25.0
192.268292	10.070417	12:49:04.39	10:04:13.50	Finder Chart	SDSS_J12490439+1004135			0.195	23.029	sdM7.0	15	
176.177250	15.851639	11:44:42.54	15:51:05.90	Finder Chart	SDSS_J11444254+1551059	3200	50	0.26	22.141	esdM6.5	15	25.0
168.722292	12.488556	11:14:53.35	12:29:18.80	Finder Chart	ULAS_J111453.35+1229188	3200	50	0.505	23.514	sdL3.5-4	15	24.0
164.264958	6.814000	10:57:03.59	06:48:50.40	Finder Chart	SDSS_J10570359+0648504	3100	50	0.376	22.953	sdM6.0	15	24.0
196.563375	4.985806	13:06:15.21	04:59:08.90	Finder Chart	SDSS_J13061521+0459089	3100	50	0.339	23.755	sdM7.0	15	24.0
190.644250	14.551722	12:42:34.62	14:33:06.20	Finder Chart	ULAS_J12423462+1433062	3300	50			usdM5.0	14	25.0
197.498333	5.494083	13:09:59.60	05:29:38.70	Finder Chart	ULAS_J13095960+0529387	2700	50	0.15	23.737	sdM6.5	15	25.0
161.741375	-1.629556	10:46:57.93	-1:37:46.40	Finder Chart	SDSS_J10465793-0137464	3200	50	1.872	26.587	dM4.5/sdM6.5	15	25.0
161.214667	-1.776139	10:44:51.52	-1:46:34.10	Finder Chart	SDSS_J10445152-0146341	3400	50	0.135	21.746	esdM5.0	15	24.0
162.552417	8.856278	10:50:12.58	08:51:22.60	Finder Chart	SDSS_J10501258+0851226	3000	50	0.403	23.932	sdM7.0	15	22.0
163.968708	11.402477	10:55:52.44	11:24:08.90	Finder Chart	SDSS_J10555244+1124089	3300	50			usdM6.5	74	23.0

Catalogue: Late-type Subdwarfs

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182.616125	3.582111	12:10:27.87	03:34:55.60	Finder Chart	SDSS_J12102787+0334556	3400	50			usdM6	24	24.0
183.487333	-2.923750	12:13:56.96	-2:55:25.50	Finder Chart	ULAS_J121356.96-0255255	3100	50	0.114	22.324		15	25.5
179.586542	4.583722	11:58:20.77	04:35:01.40	Finder Chart	2MASS_J11582077+0435014					sdL7	9	
179.610917	4.796333	11:58:26.62	04:47:46.80	Finder Chart	ULAS_J11582662+0447468	2700	50			sdM9.5	14	24.0
176.219458	-3.239000	11:44:52.67	-3:14:20.40	Finder Chart	J114452.67-031420.4	3100	50			esdM7.0	12	26.0
175.004958	0.617778	11:40:01.19	00:37:04.00	Finder Chart	ULAS_J114001.19+0037040	2600	50	0.134	23.472		15	26.0
183.784875	4.033472	12:15:08.37	04:02:00.50	Finder Chart	ULAS_J12150837+0402005	3000	50			sdM7.0	14	24.0
180.560917	7.520500	12:02:14.62	07:31:11.30	Finder Chart	ULAS_J12021462+0731113	3300	50			esdM7.0	14	23.0
171.760750	0.500806	11:27:02.58	00:30:02.90	Finder Chart	SDSS_J11270258+0030029	3200	50			sdM6.5	24	22.0
184.553542	7.102889	12:18:12.85	07:06:10.40	Finder Chart	SDSS_J12181285+0706104	3200	50			sdM6	24	24.0
184.553583	7.102889	12:18:12.86	07:06:10.40	Finder Chart	SDSS_J12181286+0706104	3200	50	0.251	22.231	sdM6.0	15	24.0
174.686042	6.902778	11:38:44.65	06:54:10.00								15	24.0
172.861250	-5.059944	11:31:26.70	-5:03:35.80								7	22.0
189.247625	-0.366167	12:36:59.43	00:21:58.20								14	24.0
168.696958	-1.956500	11:14:47.27	-1:57:23.70								15	25.0
168.494708	3.193806	11:13:58.73	03:11:37.40								15	25.0
175.867417	11.372750	11:43:28.18	11:22:21.90								15	22.0
191.591250	4.719417	12:46:21.90	04:43:09.90								14	23.0
192.893542	-0.932083	12:51:34.45	00:55:55.50								15	23.0
166.713708	4.804139	11:06:51.29	04:48:14.90								12	24.0
166.713708	4.804167	11:06:51.29	04:48:15.00								15	24.0
194.149625	-0.329139	12:56:35.91	00:19:44.90								14	25.0
194.154833	-2.414500	12:56:37.16	-2:24:52.20								23	24.0
165.074250	1.205194	11:00:17.82	01:12:18.70								15	23.0
166.091083	5.623333	11:04:21.86	05:37:24.00								15	26.0
191.107917	10.411639	12:44:25.90	10:24:41.90								14	25.0
192.268292	10.070417	12:49:04.39	10:04:13.50								15	
176.177250	15.851639	11:44:42.54	15:51:05.90								15	25.0
168.722292	12.488556	11:14:53.35	12:29:18.80								15	24.0
164.264958	6.814000	10:57:03.59	06:48:50.40								15	24.0
196.563375	4.985806	13:06:15.21	04:59:08.90								15	24.0
190.644250	14.551722	12:42:34.62	14:33:06.20								14	25.0
197.498333	5.494083	13:09:59.60	05:29:38.70								15	25.0
161.741375	-1.629556	10:46:57.93	-1:37:46.40								15	25.0
161.214667	-1.776139	10:44:51.52	-1:46:34.10								15	24.0
162.552417	8.856278	10:50:12.58	08:51:22.60								15	22.0
163.968708	11.402477	10:55:52.44	11:24:08.90	Finder Chart	SDSS_J10555244+1124089	3300	50			usdM6.5	24	23.0

The screenshot shows the Irsa DataLink web interface. At the top, there are navigation tabs for 'Irsa', 'DATA SETS', 'SEARCH', 'TOOLS', and 'HELP'. Below this is a search bar and a toolbar with various icons for zooming and navigation. The main content area displays a list of objects, with the selected object 'SDSS J10555244+1124089' highlighted. Below the list, there is a grid of zoomed-in images of the selected object, showing its surface features. The interface also includes a 'View Options' panel on the right and a status bar at the bottom.

Catalogue: Late-type Subdwarfs

- To get the list of confirmed ultracool subdwarfs (193 objects), click here
- To get the list of solar-metallicity dwarfs (7 objects), click here
- To get the list of subdwarfs strictly earlier than sdMS (2 objects), click here

First 193 results shown (193 found)

RA (ICRS) (deg)	DEC (ICRS) (deg)	RA (ICRS) (hh:mm:ss)	DEC (ICRS) (hh:mm:ss)	Links	objID (?)	Teff (?) (K)	e_Teff (?) (K)	PM (?)	HR (?)	SpType (?)	Refs (?)	SDSS_u
182.616125	3.582111	12:10:27.87	03:34:55.60	Finder Chart	SDSS_J12102787+0334556	3400	50			usdM6	24	24.4
183.487333	-2.923750	12:13:56.96	-2:55:25.50	Finder Chart	ULAS_J121356.96-0255255	3100	50	0.114	22.324		15	25.4
179.586542	4.583722	11:58:20.77	04:35:01.40	Finder Chart	2MASS_J11582077+0435014					sdL7	9	
179.610917	4.796333	11:58:26.62	04:47:46.80	Finder Chart	ULAS_J11582662+0447468	2700	50			sdM9.5	14	24.5
176.219458	-3.239000	11:44:52.67	-3:14:20.40	Finder Chart	J114452.67-031420.4	3100	50			esdM7.0	12	26.0
175.004958	0.617778	11:40:01.19	00:37:04.00	Finder Chart	ULAS_J114001.19+0037040	2600	50	0.134	23.472		15	26.5
183.784875	4.033472	12:15:08.37	04:02:00.50	Finder Chart	ULAS_J12150837+0402005	3000	50			sdM7.0	14	24.4
180.560917	7.520500	12:02:14.62	07:31:13.80	Finder Chart	ULAS_J12021462+0731138	3300	50			esdM7.0	14	23.9
171.760750	0.500806	11:27:02.58	00:30:02.90	Finder Chart	SDSS_J11270258+0030029	3200	50			sdM6.5	24	22.8
184.553542	7.102889	12:18:12.85	07:06:10.40	Finder Chart	SDSS_J12181285+0706104	3200	50			sdM6	24	24.3
184.553583	7.102889	12:18:12.86	07:06:10.40	Finder Chart	SDSS_J12181286+0706104	3200	50	0.251	22.231	sdM6.0	15	24.3
174.686042	6.902778	11:38:44.65	06:54:10.00	Finder Chart				0.17	22.687	esdM5.0	15	24.1
172.861250	-5.059944	11:31:26.70	-5:03:35.80	Finder Chart						sdM5.5	7	22.9
189.247625	-0.366167	12:36:59.43	00:21:58.20	Finder Chart						esdM5.5	14	24.0
168.696958	-1.956500	11:14:47.27	-1:57:23.40	Finder Chart				0.244	21.975		15	25.2
168.494708	3.193806	11:13:58.73	03:11:37.70	Finder Chart				0.127	22.224	esdM6.5	15	25.7
175.867417	11.372750	11:43:28.18	11:22:21.90	Finder Chart				0.249	23.425	sdM5.5	15	22.9
191.591250	4.719417	12:46:21.90	04:43:09.90	Finder Chart						esdM5.0	14	23.8
192.893542	-0.932083	12:51:34.45	00:55:55.50	Finder Chart				0.14	22.732	sdM7.5	15	23.0
166.713708	4.804139	11:06:51.29	04:48:14.90	Finder Chart						sdM8.5	12	24.4
166.713708	4.804167	11:06:51.29	04:48:15.00	Finder Chart				0.297	22.934	sdM8.5	15	24.4
194.149625	-0.329139	12:56:35.91	00:19:44.90	Finder Chart						esdM6.0	14	25.1
194.154833	-2.414500	12:56:37.16	-2:24:52.20	Finder Chart						sdL3.5-4	23	24.9
165.074250	1.205194	11:00:17.82	01:12:18.70	Finder Chart	SDSS_J11001782+0112187	3000	50	0.119	22.263	sdM7.0	15	23.0
166.091083	5.623333	11:04:21.86	05:37:24.00	Finder Chart	SDSS_J11042186+0537240	2600	50	0.118	21.924	usdM5.0	15	26.0
191.107917	10.411639	12:44:25.90	10:24:41.90	Finder Chart	ULAS_J12442590+1024419	2700	50			sdL0.5	14	25.3
192.268292	10.070417	12:49:04.39	10:04:13.50	Finder Chart	SDSS_J12490439+1004135			0.195	23.029	sdM7.0	15	
176.177250	15.851639	11:44:42.54	15:51:05.90	Finder Chart	SDSS_J11444254+1551059	3200	50	0.26	22.141	esdM6.5	15	25.2
168.722292	12.488556	11:14:53.35	12:29:18.80	Finder Chart	ULAS_J111453.35+1229188	3200	50	0.505	23.514		15	24.0
164.264958	6.814000	10:57:03.59	06:48:50.40	Finder Chart	SDSS_J10570359+0648504	3100	50	0.376	22.953	sdM6.0	15	24.8
196.563375	4.985806	13:06:15.21	04:59:08.90	Finder Chart	SDSS_J13061521+0459089	3100	50	0.339	23.755	sdM7.0	15	24.0
190.644250	14.551722	12:42:34.62	14:33:06.20	Finder Chart	ULAS_J12423462+1433062	3300	50			usdM5.0	14	25.6
197.498333	5.494083	13:09:59.60	05:29:38.70	Finder Chart	ULAS_J130959.60+0529387	2700	50	0.15	23.377	sdM6.5	15	25.2
161.741375	-1.629556	10:46:57.93	-1:37:46.40	Finder Chart	SDSS_J10465793-0137464	3200	50	1.872	26.587	dM4.5/sdM6.5	15	25.1
161.214667	-1.776139	10:44:51.52	-1:46:34.10	Finder Chart	SDSS_J10445152-0146341	3400	50	0.135	21.746	esdM5.0	15	24.2
162.552417	8.856278	10:50:12.58	08:51:22.60	Finder Chart	SDSS_J10501258+0851226	3000	50	0.403	23.932	sdM7.0	15	22.9
163.968708	11.402472	10:55:52.49	11:24:08.90	Finder Chart	SDSS_J10555249+1124089	3300	50			usdM6.5	24	23.1

SDSS_J12181286+0706104

Available spectra

SDSS : [ascii](#), [fits](#)

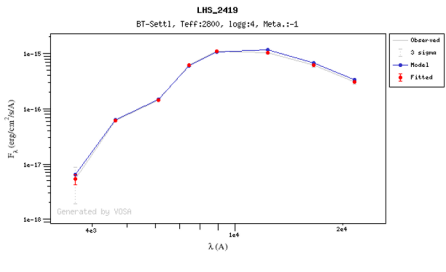
VLT : [ascii](#), [fits](#)

Catalogue: Late-type Subdwarfs

• To get the list of subdwarfs strictly earlier than sdM5 (2 objects), click here

First 193 results shown (193 found)

RA (ICRS) (deg)	DEC (ICRS) (deg)	RA (ICRS) (hh:mm:ss)	DEC (ICRS) (hh:mm:ss)	Links	objID (?)	SpType (?)	Refs (?)	Teff (?) (K)	e_Teff (?) (K)	PM (?) (arcsec/year)	HR (?)	SDSS
182.616125	3.582111	12:10:27.87	03:34:55.60	Finder Chart	SDSS_J12102787+0334556	usdM6	24	3400	50			
183.487333	-2.923750	12:13:56.96	-2:55:25.50	Finder Chart	ULAS_J121356.96-0255255		15	3100	50	0.114	22.324	
179.586542	4.583722	11:58:20.77	04:35:01.40	Finder Chart	2MASS_J11582077+0435014	sdL7	9					
179.610917	4.796333	11:58:26.62	04:47:46.80	Finder Chart	ULAS_J11582662+0447468	sdM9.5	14	2700	50			
176.219458	-3.239000	11:44:52.67	-3:14:20.40	Finder Chart	J114452.67-031420.4	esdM7.0	12	3100	50			
175.004958	0.617778	11:40:01.19	00:37:04.00	Finder Chart	ULAS_J114001.19+0037040		15	2600	50			
183.784875	4.033472	12:15:08.37	04:02:00.50	Finder Chart	ULAS_J12150837+0402005	sdM7.0	14	3000	50			
180.560917	7.520500	12:02:14.62	07:31:13.80	Finder Chart	ULAS_J12021462+0731138	esdM7.0	14	3300	50			
171.760750	0.500806	11:27:02.58	00:30:02.90	Finder Chart	SDSS_J11270258+0030029	sdM6.5	24	3200	50			
184.553542	7.102889	12:18:12.85	07:06:10.40	Finder Chart	SDSS_J12181285+0706104	sdM6	24	3200	50			
184.553583	7.102889	12:18:12.86	07:06:10.40	Finder Chart	SDSS_J12181286+0706104	sdM6.0	15	3200	50	0.251	22.231	
174.686042	6.902778	11:38:44.65	06:54:10.00	Finder Chart	SDSS_J11384465+0654100	esdM5.0	15	3000	50	0.17	22.687	
172.861250	-5.059944	11:31:26.70	-5:03:35.80	Finder Chart	LHS_2419	sdM5.5	7	2800	50			
189.247625	-0.366167	12:36:59.43	00:21:58.20	Finder Chart	ULAS_J123659.43							
168.696958	-1.956500	11:14:47.27	-1:57:23.40	Finder Chart	ULAS_J111447.27							
168.494708	3.193806	11:13:58.73	03:11:37.70	Finder Chart	SDSS_J111358.73							
175.867417	11.372750	11:43:28.18	11:22:21.90	Finder Chart	SDSS_J114328.18							
191.591250	4.719417	12:46:21.90	04:43:09.90	Finder Chart	ULAS_J124621.90							
192.893542	-0.932083	12:51:34.45	00:55:55.50	Finder Chart	SDSS_J125134.45							
166.713708	4.804139	11:06:51.29	04:48:14.90	Finder Chart	J110651.29							
166.713708	4.804167	11:06:51.29	04:48:15.00	Finder Chart	SDSS_J110651.29							
194.149625	-0.329139	12:56:35.91	00:19:44.90	Finder Chart	ULAS_J125635.91							
194.154833	-2.414500	12:56:37.16	-2:24:52.20	Finder Chart	SDSS_J125637.16							
165.074250	1.205194	11:00:17.82	01:12:18.70	Finder Chart	SDSS_J110017.82							
166.091083	5.623333	11:04:21.86	05:37:24.00	Finder Chart	SDSS_J110421.86							
191.107917	10.411639	12:44:25.90	10:24:41.90	Finder Chart	ULAS_J124425.90							
192.268292	10.070417	12:49:04.39	10:04:13.50	Finder Chart	SDSS_J124904.39							
176.177250	15.851639	11:44:42.54	15:51:05.90	Finder Chart	SDSS_J114442.54							
168.722292	12.488556	11:14:53.35	12:29:18.80	Finder Chart	ULAS_J111453.35							
164.264958	6.814000	10:57:03.59	06:48:50.40	Finder Chart	SDSS_J105703.59							
196.563375	4.985806	13:06:15.21	04:59:08.90	Finder Chart	SDSS_J130615.21							
190.644250	14.551722	12:42:34.62	14:33:06.20	Finder Chart	ULAS_J124234.62							
197.498333	5.494083	13:09:59.60	05:29:38.70	Finder Chart	SDSS_J130959.60							
161.741375	-1.629556	10:46:57.93	-1:37:46.40	Finder Chart	SDSS_J104657.93							
161.214667	-1.776139	10:44:51.52	-1:46:34.10	Finder Chart	SDSS_J104451.52							
162.552417	8.856278	10:50:12.58	08:51:22.60	Finder Chart	SDSS_J105012.58							
163.968708	11.402472	10:55:52.49	11:24:08.90	Finder Chart	SDSS_J105552.49							
199.595042	-1.197278	13:18:22.81	-1:11:50.20	Finder Chart	SDSS_J13182281-0111502	esdM8.0	15	3100	50	0.185	22.677	
194.877667	13.276167	12:59:30.64	13:16:34.20	Finder Chart	ULAS_J125930.64+1316342	sdM6.0	15	3200	50	0.231	23.487	
160.787667	5.353333	10:43:09.04	05:21:12.00	Finder Chart	ULAS_J104309.04+0521120		15	3300	50	0.287	21.666	



SVOCat: DataLink configuration

Configuration

Admin User | Project | Mysql database | Web options | VO properties | Catalogue fields | Photom. Groups | Search options | File Paths | Scripts | VO Registry | **Datalink** | References | Logout

General Datalink configuration

Datalink is a VO protocol that allows to include, in VO responses, a list of links associated to a given result. If you want to include links to other services, Images, spectra, etc that are associated to catalogue entries, activate Datalink and define below how to build these links.

- 'Field to use as DataLink ID': Datalink needs that one of the catalogue fields can be used as a key to unambiguously identify a catalogue entry. The typical field to do this is the one with the ID_MAIN ucd. But you can choose a different one.

Activate DataLink:	<input type="text" value="Yes"/>
Field to use as DataLink ID:	<input type="text" value="objID"/>

Links to include

Define here the links that are associated to each entry catalogue.

For the link urls you can use `{MYFIELD}` as a placeholder for a field which dbname is defined as MYFIELD. That is, if you write "http://thespectra.com/RA={RAdeg}" and there is a field in the catalogue named RAdeg, then, for each object, `{RAdeg}` will be replaced by the value of RAdeg for that object.

In some cases you have several files (for instance, different spectra) associated to each catalogue object and you want to provide links to these files. If this is the case, please, make a different folder for each object containing these files, choose the 'Files' type, and write, as link, the relative path for this folder. For instance "files/spectra/{myID}" (where myID must be a field uniquely identifying each object (we recommend to use the same field given above as 'datalink ID')). In that case, SVOCat will build a link for each file in the object folder.

Link URL	Link Type	Description	Content-type	Semantics
@justes/{objID}.bfit.phot.png	Expresion	VOSA best fit Plot	image/png	#proc
files/spectra/{objID}	Files	Spectrum	---	#auxiliary
http://irsa.ipac.caltech.edu/applications/finderchart/#id=Hydra_finderchart_finder_chart&RequestClass=ServerRequest&DoSearch=true&radius=0.92333333400000018	Expresion	Finder chart	text/html	#auxiliary

ConeSearch service

```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">  
  <RESOURCE type="results">  
    <INFO name="QUERY_STATUS" value="OK"/>  
    <DESCRIPTION>  
      This data server provides access to the SVO late-type subdwarf catalogue compiled by Lodieu et al. (2016,  
      submitted). It contains 171 late-type subdwarf candidates obtained after a literature search.  
    </DESCRIPTION>
```

```
    <FIELD name="RA" ucd="POS_EQ_RA_MAIN" unit="deg" datatype="double">  
      <DESCRIPTION>Right Ascension (ICRS) (degrees)</DESCRIPTION>
```

```
    <FIELD name="DEC" ucd="POS_EQ_DEC" unit="deg" datatype="double">  
      <DESCRIPTION>Declination (ICRS) (degrees)</DESCRIPTION>
```

```
    <FIELD name="dis" ucd="POS_ANG_DIST" unit="pc" datatype="double">  
      <DESCRIPTION>Distance from Co...</DESCRIPTION>
```

```
    <FIELD ID="objID" name="objID" ucd="ID" unit="" datatype="char">  
      <DESCRIPTION>Identifier</DESCRIPTION>
```

```
    <FIELD ID="umag_sdss" name="umag_sdss" ucd="UMAG" unit="" datatype="double">  
      <DESCRIPTION>u magnitud (SDSS)</DESCRIPTION>
```

```
  <TABLEDATA>
```

```
    <TR>
```

```
      <TD>182.616125</TD>
```

```
      <TD>3.5821111111111117</TD>
```

```
      <TD>15964.978924349</TD>
```

```
      <TD>SDSS_J12102787+0334556</TD>
```

```
      <TD>24.414</TD>
```

```
      <TD>22.211</TD>
```

```
      <TD>20.254</TD>
```

```
      <TD>19.33</TD>
```

```
      <TD>18.848</TD>
```

```
      <TD>1.202</TD>
```

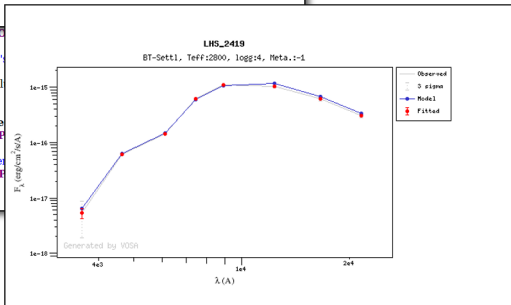
```
      <TD>0.101</TD>
```

```
      <TD>0.031</TD>
```

```
</RESOURCE type="meta" utype="adhoc:service">  
  <PARAM name="standardID" datatype="char" arraysize="*" value="ivo://ivoa.net/std/DataLink#links-1.0"/>  
  <PARAM name="accessURL" datatype="char" arraysize="*" value="http://svo2.cab.inta-csic.es/vocats/itsa2/dl.php?"/>  
  <GROUP name="inputParams">  
    <PARAM name="ID" datatype="char" arraysize="*" value="" ref="objID"/>  
  </GROUP>  
</RESOURCE>
```

DataLink service

```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">
-<RESOURCE type="results">
- <TABLE name="dlresponse">
  <DESCRIPTION>Data links
  -<FIELD ID="ID" arraysize="1">
    -<DESCRIPTION>
      Publisher data set id; this is the
    </DESCRIPTION>
  </FIELD>
  -<FIELD ID="access_url" arraysize="1">
    <DESCRIPTION>URL to resource
  </FIELD>
  -<FIELD ID="description" arraysize="1">
    <DESCRIPTION>More information on this link</DESCRIPTION>
  </FIELD>
  -<FIELD ID="semantics" arraysize="*" datatype="char" name="semantics">
    -<DESCRIPTION>
      What kind of data is linked here? Standard identifiers here include
    </DESCRIPTION>
  </FIELD>
  -<FIELD ID="content_type" arraysize="*" datatype="char" name="content_type">
    <DESCRIPTION>MIME type for the data returned.</DESCRIPTION>
  </FIELD>
  -<FIELD ID="content_length" datatype="long" name="content_length">
    <DESCRIPTION>Size of the resource at access_url</DESCRIPTION>
    <VALUES null="-1"> </VALUES>
  </FIELD>
  <TR>
    <TD>J101200.28+204611.6</TD>
    <TD>
      http://svo2.cab.inta-csic.es/vocats/ltsa2/ajustes/J101200.28+204611.6.bfit.phot.png
    </TD>
    <TD>VOSA best fit Plot</TD>
    <TD>#proc</TD>
    <TD>image/png</TD>
    <TD>-1</TD>
  </TR>
</TABLE>
</RESOURCE>
</VOTABLE>
```



DataLink service

```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">  
<-RESOURCE type="results">
```

```
-<TABLE name="dlresponse">  
<DESCRIPTION>Data links  
<-FIELD ID="ID" arraysize="1" datatype="text" name="ID" ucd="table">  
<DESCRIPTION>Publisher data set id; this is the  
</DESCRIPTION>  
</FIELD>  
<-FIELD ID="access_url" arraysize="1" datatype="text" name="access_url" ucd="table">  
<DESCRIPTION>URL to retrieve the data  
</DESCRIPTION>  
</FIELD>  
<-FIELD ID="description" arraysize="1" datatype="text" name="description" ucd="table">  
<DESCRIPTION>More information about the data  
</DESCRIPTION>  
</FIELD>  
<-FIELD ID="semantics" arraysize="1" datatype="text" name="semantics" ucd="table">  
<DESCRIPTION>What kind of data is linked here? Standard identifiers here include science, calibration  
</DESCRIPTION>  
</FIELD>  
<-FIELD ID="content_type" arraysize="1" datatype="char" name="content_type" ucd="table">  
<DESCRIPTION>MIME type for the data returned.</DESCRIPTION>  
</FIELD>  
<-FIELD ID="content_length" datatype="long" name="content_length" ucd="phys.size">  
<DESCRIPTION>Size of the resource at access_url</DESCRIPTION>  
<VALUES null="-1" /></VALUES>  
</FIELD>
```

```
<-TR>  
<TD>J101200.28+204611.6</TD>
```

```
<-TR>  
<TD>J101200.28+204611.6</TD>
```

```
<-TR>  
<TD>http://svo2.cab.inta-csic.es/vocats/itsa2./files/spectra/J101200.28+204611.6/016_SDSS_101200p204611_norm.dat  
</TD>  
<TD>Spectrum</TD>  
<TD>#auxiliary</TD>  
<TD>text/plain</TD>  
<TD>128492</TD>
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Object ID	URL
3803.644825753192	0.07707326002018426
3804.5219378491265	0.3188603667802708
3805.397163121219	0.1116978609433738
3806.272589737735	0.21789930200064053
3807.1503077902407	-0.03510916745790871
3808.0261377153843	-0.6242582362185242
3808.9042601321808	-0.5849481910787603
3809.780493551755	0.017396578545211462
3810.659020519133	0.09002577873968308
3811.5356576190284	0.20054050671157014
3812.412496388137	0.5996647188740392
3813.291630289555	-0.14545967501978718
3814.168873017869	-0.46437248106925716
3815.048411935859	-0.6073062650619014
3815.9260588094817	-0.22151541966263963
3816.8060029306343	0.370485064803913
3817.684054135756	0.24648909927696308
3818.562307335403	-0.35670247129214705
3819.442859369643	-0.6379265939035723
3820.321517180123	0.5458467237411007
3821.2024748842678	0.37921972172234647
3822.081537491985	-0.06724467200617636
3822.962901052926	0.06813415917017127
3823.8423686443693	0.07614128692175752
3824.7241382490856	0.029004036739308344
3825.6040110108315	-0.29491332269483994
3826.48408618615	-0.9234869351951024
3827.366464965097	-0.35234671767039966
3828.246945590631	-0.24593986490721342
3829.129730881063	-0.24695188768448367

DataLink service

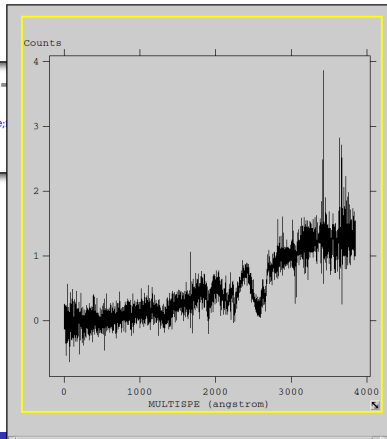
```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">
-<RESOURCE type="results">
  -<TABLE name="dlresponse">
    <DESCRIPTION>Data links
    -<FIELD ID="ID" arraysize="1">
      -<DESCRIPTION>
        Publisher data set id; this id
      </DESCRIPTION>
    </FIELD>
    -<FIELD ID="access_url" arraysize="1">
      <DESCRIPTION>URL to resource
    </FIELD>
    -<FIELD ID="description" arraysize="1">
      <DESCRIPTION>More information
    </FIELD>
    -<FIELD ID="semantics" arraysize="1">
      <DESCRIPTION>
        What kind of data is linked here? Standard
      </DESCRIPTION>
    </FIELD>
    -<FIELD ID="content_type" arraysize="*" datatype="char" name="content_type" ucd="content_type">
      <DESCRIPTION>MIME type for the data returned.</DESCRIPTION>
    </FIELD>
    -<FIELD ID="content_length" datatype="long" name="content_length" ucd="phys.size">
      <DESCRIPTION>Size of the resource at access_url</DESCRIPTION>
      <VALUES null="-1"> </VALUES>
    </FIELD>
  </TABLE>
  <DATA>
```

```
-<TR>
  <TD>J101200.28+204611.6</TD>
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-<TR>
  <TD>J101200.28+204611.6</TD>
```

```
-<TR>
  <TD>J101200.28+204611.6</TD>
```

```
-<TR>
  <TD>
    http://svo2.cab.inta-csic.es/vocats/ltsa2/.files/spectra/J101200.28+204611.6/016_SDSS_101200p204611_norm.fits
  </TD>
  <TD>Spectrum</TD>
  <TD>#auxiliary</TD>
  <TD>application/fits</TD>
  <TD>63360</TD>
</TR>
```



DataLink service

```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">
```

```
<RESOURCE type="results">
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```
<TABLE name="dlresponse">
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<DESCRIPTION>Data links
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<FIELD ID="ID" arraysize="1">
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<DESCRIPTION>
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  Publisher data set id; this
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</DESCRIPTION>
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</FIELD>
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```
<FIELD ID="access_url" arraysize="1">
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<DESCRIPTION>URL to r
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</FIELD>
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<FIELD ID="description" arraysize="1">
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<DESCRIPTION>More informati
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</FIELD>
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<FIELD ID="semantics" arraysize="1">
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<DESCRIPTION>
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```
  What kind of data is linked here? Stand
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</DESCRIPTION>
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</FIELD>
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```
<FIELD ID="content_type" arraysize="*" datatype="text">
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```
<DESCRIPTION>MIME type for the data returne
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</FIELD>
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```
<FIELD ID="content_length" datatype="long" name="content_length" ucd="phys.size">
```

```
<DESCRIPTION>Size of the resource at access_url</DESCRIPTION>
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<VALUES null="-1" /></VALUES>
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</FIELD>
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</TABLE>
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<TD>J101200.28+204611.6</TD>
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<TD>J101200.28+204611.6</TD>
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<TD>J101200.28+204611.6</TD>
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```
<TD>http://adsabs.harvard.edu/abs/2008ApJ...681L..33L</TD>
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```
<TD>Reference: Lepine & Scholz, 2008</TD>
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<TD>http://www.ivoa.net/rdf/Vocabularies/UCD#Metarefurl
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016_SDSS_101200p204611_norm.fits

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Translate This Page

Title: Twenty Three New Ultracool Subdwarfs from the Sloan Digital Sky Survey

Authors: [Lépine, Sébastien](#); [Scholz, Ralf-Dieter](#)

Affiliation: AADepartment of Astrophysics, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024, AB(Astrophysical Institute Potsdam, An der Sternwarte 16, D-14481 Potsdam, Germany)

Publication: The Astrophysical Journal Letters, Volume 681, Issue 1, article id. L33, pp. (2008). ([ApJL Homepage](#))

Publication Date: 07/2008

Origin: [IOP](#)

Astronomy Keywords: Galaxy: halo, Galaxy: stellar content, solar neighborhood, stars: late-type, subdwarfs

DOI: [10.1086/529183](#)

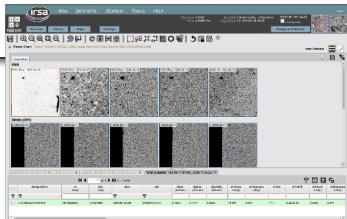
Bibliographic Code: [2008ApJ...681L..33L](#)

Code:

DataLink service

```
<VOTABLE version="1.1" xsi:schemaLocation="http://www.ivoa.net/xml/VOTable/v1.1">
  <RESOURCE type="results">
    <TABLE name="dlresponse">
      <DESCRIPTION>Data links
      <FIELD ID="ID" arraysize="1">
        <DESCRIPTION>
          Publisher data set id; this
        </DESCRIPTION>
      </FIELD>
      <FIELD ID="access_url" arraysize="1">
        <DESCRIPTION>URL to r
        </DESCRIPTION>
      </FIELD>
      <FIELD ID="description" arraysize="1">
        <DESCRIPTION>More informati
        </DESCRIPTION>
      </FIELD>
      <FIELD ID="semantics" arraysize="1">
        <DESCRIPTION>
          What kind of data is linked here? Stand
        </DESCRIPTION>
      </FIELD>
      <FIELD ID="content_type" arraysize="1" datatype="string">
        <DESCRIPTION>MIME type for the data return
        </DESCRIPTION>
      </FIELD>
      <FIELD ID="content_length" datatype="long" name="content_length">
        <DESCRIPTION>Size of the resource at access_url</DESCRIPTION>
        <VALUES null="-1"> </VALUES>
      </FIELD>
    </TABLE>
  </RESOURCE>
  <TR>
    <TD>J101200.28+204611.6</TD>
  </TR>
  <TR>
    <TD>J101200.28+204611.6</TD>
  </TR>
  <TR>
    <TD>J101200.28+204611.6</TD>
  </TR>
  <TR>
    <TD>J101200.28+204611.6</TD>
    <TD>http://adsabs.harvard.edu/abs/2008ApJ...681L...33L</TD>
  </TR>
  <TR>
    <TD>J101200.28+204611.6</TD>
  </TR>
  <TR>
    <TD>J101200.28+204611.6</TD>
    <TD>http://irsa.ipac.caltech.edu/applications/finderchart/#id=Hydra_finderchart_finder_chart&RequestClass=ServerReq
    DoSearch=true&subsize=0.0833333340000001&thumbnail_size=medium&sources=DSS,SDSS,twomass,WISE&
    overlay_catalog=true&catalog_by radius=true&sdss radius=5&wise radius=5&one to one=
    UserTargetWorldPt=153.00116666666668;20.769888888888889;EQ_J2000&SimpleTargetPanel.field.resolvedBy=n
    dss_bands=pos1_blue,pos1_red,pos2ukstu_blue,pos2ukstu_red,pos2ukstu_ir&SDSS_bands=u,g,r,i,z&twomass
    wise_bands=1,2,3,4&projectId=finderchart&searchName=finder_chart&shortDesc=Finder%20Chart&isBookmark
    isDrillDownRoot=true&isSearchResult=true
  </TD>
  <TD>16_SDSS_101200p204611_norm.fits
  </TD>
  </TR>
  <TR>
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  </TR>
  <TR>
    <TD>#auxiliary</TD>
  </TR>
  <TR>
    <TD>text/html</TD>
  </TR>
  <TR>
    <TD>-1</TD>
  </TR>
  <TR>
    <TD>
  </TD>
  </TR>

```



- I am a data provider with a collection of data:
 - tables (a catalogue)
 - spectra for all or some objects
 - images for all or some objects

- I create a web page with all this information.
 - This works (and could look nice).
 - But not so good for standardization/interoperability.

I want to put my data in the VO.

- I can create 3 services:
 - 1 conesearch for the catalogue.
 - 1 ssap for the spectra
 - 1 siap for the images.
- working with this can be confusing. Users need:
 - TOPCAT: find the CS, make the query, get the table.
 - Aladin: find the SIAP, make the query, get the images.
 - Splat: find the SSAP, make the query, get the spectra.
- not easy to relate the different results.

This should be transparent for users thanks to DataLink.

- I open TOPCAT, make a query, get a table.
- For each object I have:
 - its catalogue properties,
 - links to the corresponding spectra and images.
- I broadcast the images to Aladin.
- I broadcast the spectra to Splat to analyze them.
- I am happier ;-)

THANK YOU!