



CARMENCITA, the CARMENES input catalogue.



EXCELENCIA
MARÍA
DE MAEZTU

Miriam Cortés Contreras
CAB (CSIC-INTA)

Present and future science with CARMENES (RIA)
Granada, 21/02/2019



Outline

- CARMENCITA
 - What?
 - How?
 - Scientific preparation
 - And beyond

CARMENCITA: What?



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CARMENES Cool dwarf Information and daTa Archive

	#Karmn	Name	GJ	RA J2016_d...	DE J2016_...	l J2016_deg	b J2016_d...	Ref01	SpT	SpTnum	Ref02
1	J00012+139N	BD+13 5195		0,30505	13,97572	104,871	-47,127	Gaia2	M0.5 V+	0,5	JA74
2	J00012+139S	BD+13 5195B		0,30371	13,97276	104,868	-47,13	Gaia2	M0.0 V	0,	Lep13
3	J00026+383	2M J00024011+3821453		0,66667	38,36225	112,527	-23,522	Gaia2	M4.0 V	4,	Fri13
4	J00033+046	StKM 1-2199		0,82906	4,68657	101,049	-56,127	Gaia2	M1.5 V	1,5	Lep13
5	J00051+457	GJ 2	2	1,30075	45,78592	114,56	-16,333	Gaia2	M1.0 V	1,	PMSU
6	J00056+458	HD 388	48	1,42607	45,80974	114,654	-16,326	Gaia2	M0.0 V	0,	Cve12
7	J00067-075	GJ 1002	1002	1,67646	-7,54621	92,445	-67,73	Gaia2	M5.5 V	5,5	PMSU
8	J00077+603	G 217-032		1,93026	60,38166	117,552	-2,033	Gaia2	M4.0 V+	4,	AF15a
9	J00078+676	2M J00075079+6736255		1,96108	67,60665	118,785	5,087	Gaia2	M2.0 V	2,	Lep13
10	J00079+080	LP 524-065	3007	1,9948	8,00363	104,722	-53,325	Gaia2	M3.0 V	3,	PMSU
11	J00081+479	1RXS J000806.3+475659		2,02597	47,95068	115,468	-14,292	Gaia2	M4.0 V+	4,	Lep13
12	J00084+174	MCC 351	3008	2,11325	17,42401	108,553	-44,244	Gaia2	M0.0 V	0,	PMSU
13	J00088+208	LP 404-033	3010	2,24444	20,83932	109,733	-40,94	Gaia2	M4.5 V+	4,5	PMSU
14	J00110+052	G 031-029		2,77036	5,20927	104,644	-56,223	Gaia2	M1.0 V	1,	Lep13
15	J00115+591	LSR J0011+5908		2,87498	59,13939	117,821	-3,335	Gaia2	M5.5 V	5,5	AF15a
16	J00118+229	LP 348-040		2,97154	22,98369	111,197	-38,985	Gaia2	M3.5 V	3,5	AF15a
17	J00119+330	G 130-053		2,9823	33,05302	113,462	-29,091	Gaia2	M3.5 V	3,5	AF15a
18	J00122+304	2M J00121341+3028443		3,05619	30,47884	113,007	-31,636	Gaia2	M4.5 V	4,5	AF15a
19	J00131+703	TYC 4298-613-1		3,29866	70,39856	119,708	7,767	Gaia2	M2.0 V	2,	Lep13
20	J00132+693	GJ 11 AB	11AB	3,325	69,326	119,56	6,7	Min15	M3.0 V+	3,	PMSU
21	J00133+275	2M J00131951+2733310		3,33144	27,55811	112,668	-34,553	Gaia2	M4.5 V	4,5	AF15a
22	J00136+806	G 242-048	3014	3,41795	80,66659	121,33	17,913	Gaia2	M1.5 V	1,5	AF15a
23	J00137+806	LP 012-304	3015	3,43557	80,66449	121,332	17,91	Gaia2	M5.0 V	5,	PMSU
24	J00154-161	GJ 1005 AB	1005AB	3,8698	-16,1365	83,921	-76,205	Gaia2	M4.0 V+	4,	PMSU
25	J00156+722	G 242-049		3,90649	72,28429	120,179	9,604	Gaia2	M2.0 V	2,	Lep13
26	J00158+135	GJ 12	12	3,95791	13,55762	109,835	-48,407	Gaia2	M3.0 V	3,	PMSU
27	J00159-166	BPS CS 31060-0015		3,99145	-16,61598	83,119	-76,661	Gaia2	M4.1 V+	4,1	Shk09
28	J00162+198E	LP 404-062	1006B	4,07055	19,8608	111,738	-42,246	Gaia2	M4.0 V	4,	AF15a
29	J00162+198W	EZ Psc	1006A	4,06422	19,85715	111,729	-42,248	Gaia2	M4.0 V6+	4,	AF15a
30	J00169+051	GJ 1007	1007	4,23418	5,12132	107,149	-56,689	Gaia2	M4.5 V	4,5	PMSU
31	J00169+200	G 131-047	3022	4,23788	20,06539	111,997	-42,073	Gaia2	M3.5 V+	3,5	PMSU
32	J00173+291	Ross 680	3023	4,33809	29,18485	114,048	-33,098	Gaia2	M2.0 V	2,	PMSU
33	J00176-086	BD-09 40	3025	4,42176	-8,68217	97,965	-69,901	Gaia2	M0.0 V	0,	PMSU
34	J00179+209	LP 404-081		4,49534	20,95522	112,524	-41,239	Gaia2	M1.0 V	1,	Lep13
35	J00182+102	GJ 16	16	4,56914	10,20266	109,662	-51,813	Gaia2	M1.5 V	1,5	PMSU
36	J00183+440	GX And	15A	4,61267	44,02473	116,69	-18,447	Gaia2	M1.0 V	1,	AF15a
37	J00184+440	GQ And	15B	4,62475	44,0287	116,7	-18,444	Gaia2	M3.5 V	3,5	PMSU
38	J00188+278	LP 292-066	3027	4,72523	27,81337	114,197	-34,506	Gaia2	M4.0 V	4,	PMSU
39	J00201-170	LP 764-108	2003	5,03556	-17,06145	85,617	-77,603	Gaia2	M1.0 V(k)+	1,	Gra06
40	J00204+330	LP 292-067	3028	5,12806	33,0814	115,502	-29,344	Gaia2	M5.5 V	5,5	PMSU
41	J00207+596	[l81] M 134		5,19877	59,60434	119,059	-3,037	Gaia2	M2.5 V	2,5	Lep13
42	J00209+176	StKM 1-25		5,23848	17,63742	112,703	-44,628	Gaia2	M0.0 V	0,	Lep13
43	J00210+557	G 217-043		5,27082	55,73213	118,637	-6,886	Gaia2	M2.0 V	2,	Skl12
44	J00218+382	G 171-051		5,47818	38,27343	116,582	-24,234	Gaia2	M3.0 V	3,	Lep13
45	J00219+492	LP 149-056	3030	5,49245	49,21036	117,992	-13,379	Gaia2	M2.5 V+	2,5	PMSU
46	J00234+243	GJ 1011	1011	5,86557	24,30734	114,823	-38,124	Gaia2	M4.0 V	4,	PMSU
47	J00234+771	GJ 1010 A	1010A	5,85385	77,18949	121,332	14,405	Gaia2	M1.5 V	1,5	PMSU
48	J00235+771	GJ 1010 B	1010B	5,86627	77,19097	121,335	14,406	Gaia2	M4.0 V	4,	PMSU
49	J00240+264	LSPM J0024+2626		6,01649	26,44136	115,352	-36,027	Gaia2	M4.0 V	4,	AF15a
50	J00244+360	G 130-067		6,10952	36,065	116,838	-26,487	Gaia2	M1.0 V	1,	Lep13
51	J00245+300	G 130-068	3033	6,14825	30,04158	116,045	-32,471	Gaia2	M4.5 V	4,5	PMSU

2183 stars



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Karmn | Name | GJ | Gaia_id_1 | Gaia_id_2 | SpT | SpTnum | Ref02 | RA_J2016_deg | DE_J2016_deg | l_2016_deg | b_2016_deg | Ref01 | RA_J2000 | DE_J2000 | Ref 39 | muRA_masa-1 | emuRA_masa-1 | muDE_masa-1 | emuDE_masa-1 | Ref06 | pi_mas | epi_mas | Ref07 | d_pc | ed_pc | Ref08 | Vr_kms-1 | eVr_kms-1 | Ref09 | U_kms-1 | eU_kms-1 | V_kms-1 | eV_kms-1 | W_kms-1 | eW_kms-1 | Ref10 | sa_m/s/a | esa_m/s/a | Ref11 | Teff_K | eTeff_K | logg | elogg | [Fe/H] | e[Fe/H] | Ref03 | L_Lsol | eL_Lsol | R_Rsol | eR_Rsol | Ref04 | M_Msol | eM_Msol | Massflag | Ref05 | SKG | Ref12 | Pop | Ref13 | vsini_flag | vsini_kms-1 | evsini_kms-1 | Ref14 | P_d | eP_d | Ref15 | pEWHalpha_A | epEWHalpha_A | Ref16 | log(LHalpha/Lbol) | Ref17 | 1RXS | CRT_s-1 | eCRT_s-1 | HR1 | eHR1 | HR2 | eHR2 | Flux_X_E-13_ergcm-2s-1 | eFlux_X_E-13_ergcm-2s-1 | LX/LJ | eLX/LJ | Ref18 | Activity | Ref19 | FUV_mag | eFUV_mag | NUV_mag | eNUV_mag | Ref20 | u_mag | eu_mag | Ref21 | BT_mag | eBT_mag | Ref22 | B_mag | eB_mag | Ref23 | BP_mag | eBP_mag | Ref24 | g_mag | eg_mag | Ref25 | VT_mag | eVT_mag | Ref26 | G_mag | eG_mag | Ref27 | V_mag | eV_mag | Ref28 | Ra_mag | Ref29 | r_mag | er_mag | Ref30 | RP_mag | eRP_mag | Ref31 | i_mag | ei_mag | Ref32 | IN_mag | Ref33 | J_mag | eJ_mag | H_mag | eH_mag | Ks_mag | eKs_mag | QFlag_2MASS | Ref34 | W1_mag | eW1_mag | W2_mag | eW2_mag | W3_mag | eW3_mag | W4_mag | eW4_mag | Qflag_WISE | Ref35 | Multiplicity | Comp | WideWDS | Widerho_arcsec | eWiderho_arcsec | Ref36 | WideCompanionName | WideCompanionSpT | CloseWDS | Closerho_arcsec | eCloserho_arcsec | Ref37 | CloseCompanionSpT | | RV | Planet | Ref38 | LoRes_spectrum | HiRes_spectrum | LoRes_imaging | HiRes_imaging | SS | Class | Flags | Notes |

170 columns:

Names + SpTs

Astrometry

Stellar params.

"Age"

Activity

Photometry

Multiplicity

Planet?

Spectra/images

Internal flags

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Selection criteria:

- $\delta > -23$ deg
- The **brightest** M dwarfs with the **latest** SpTs

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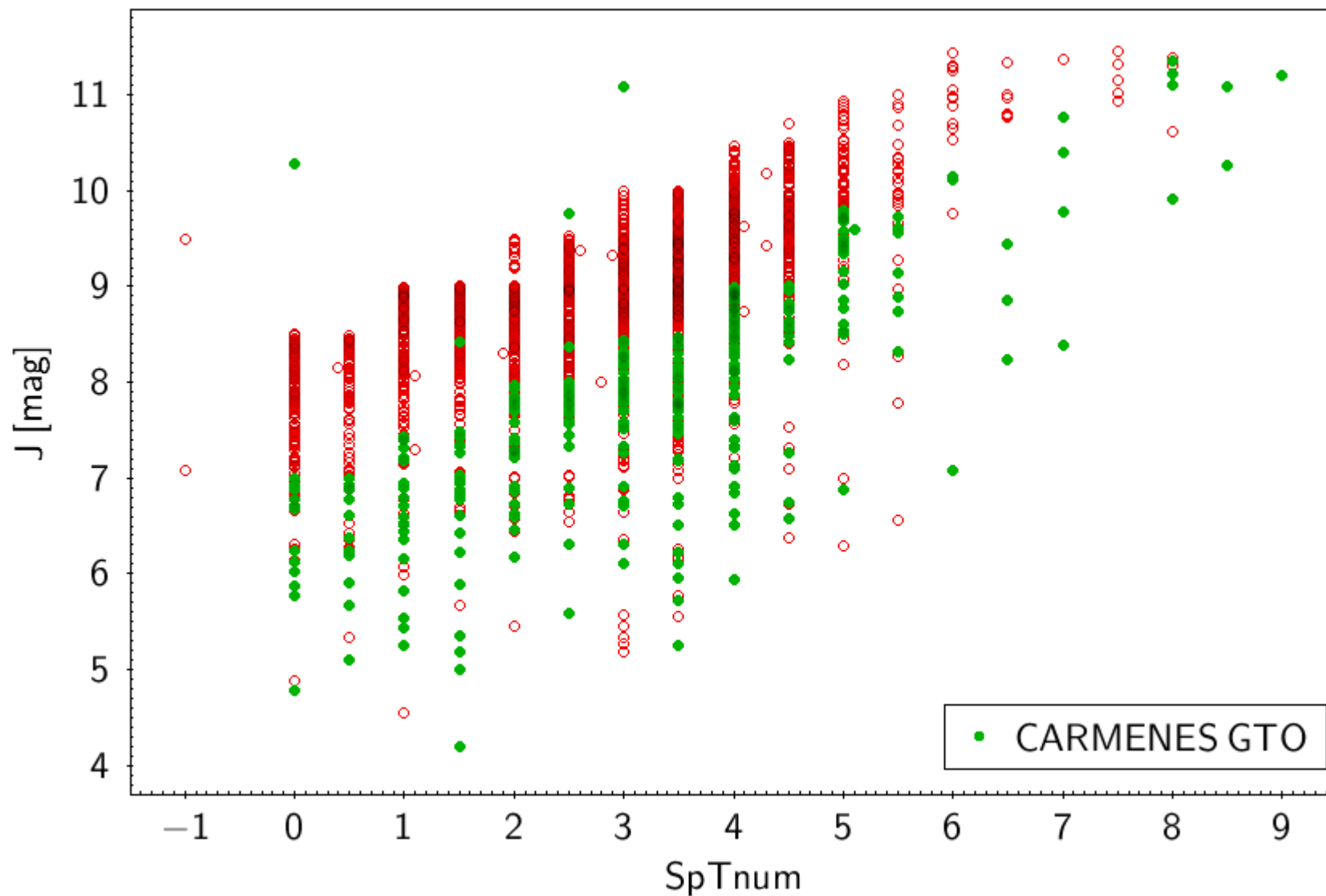
Selection criteria:

- $\delta > -23$ deg
- The **brightest** M dwarfs with the **latest** SpTs
- Single (no SB, no companion $\rho < 5$ arcsec)

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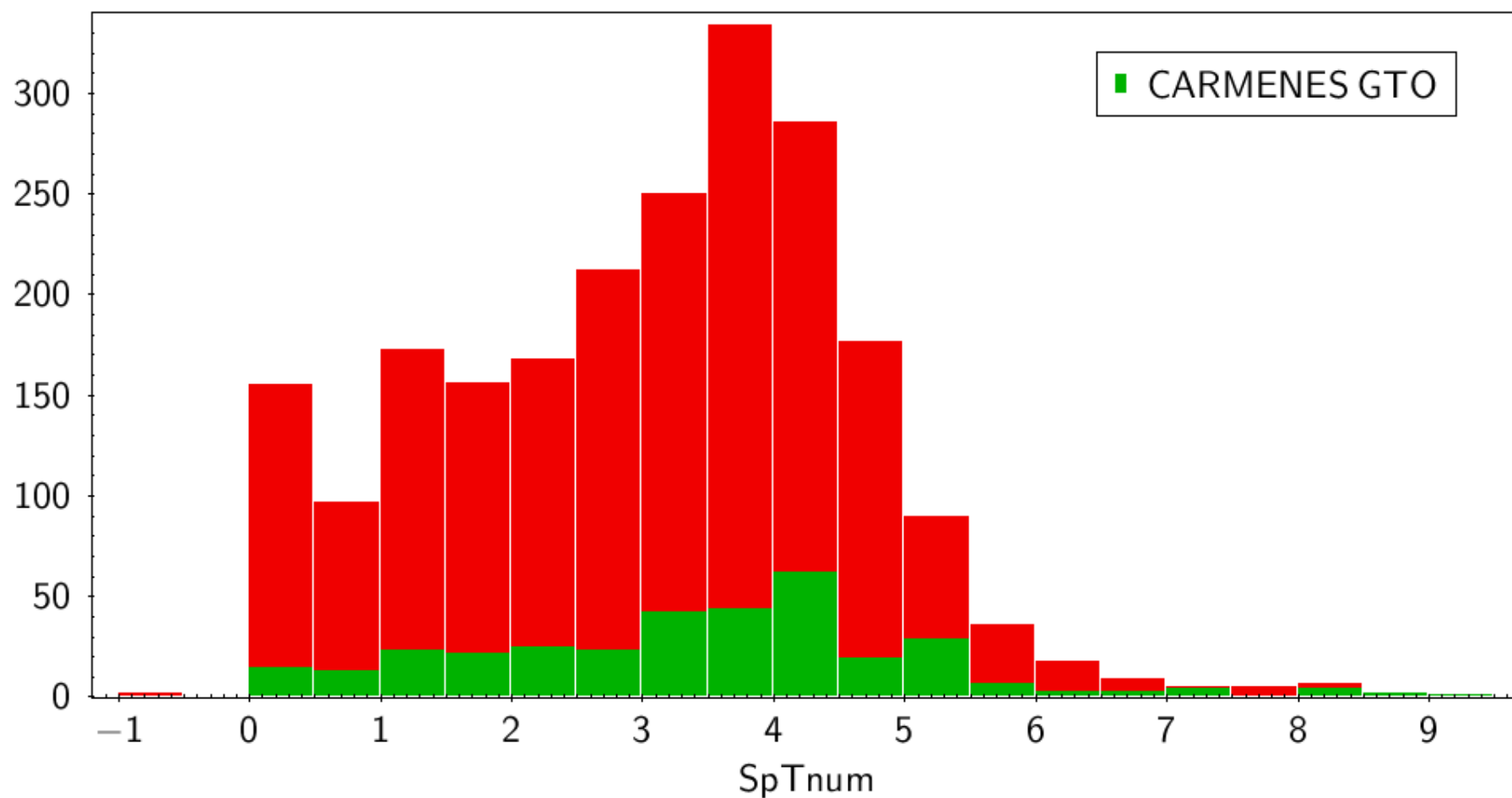




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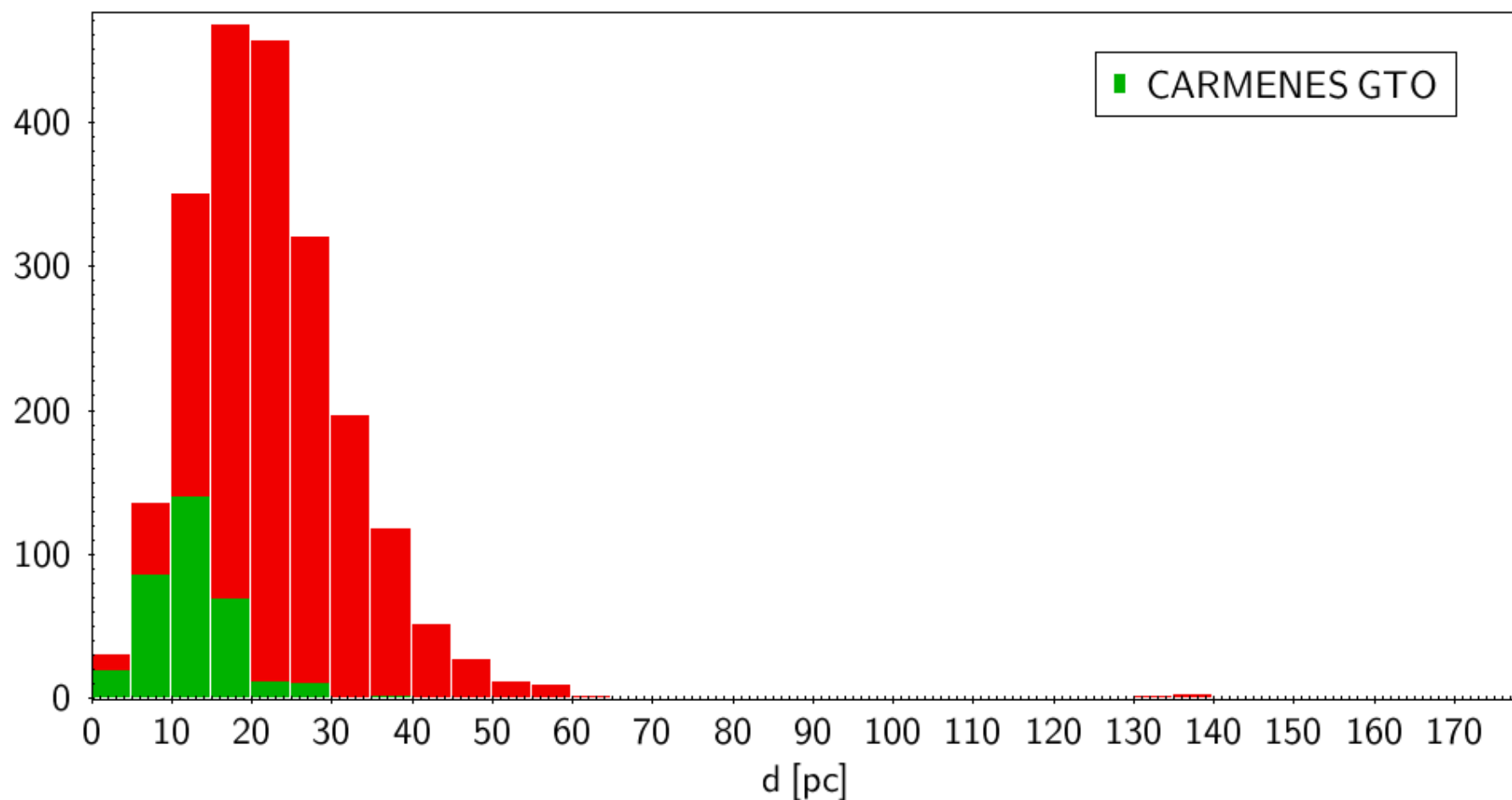




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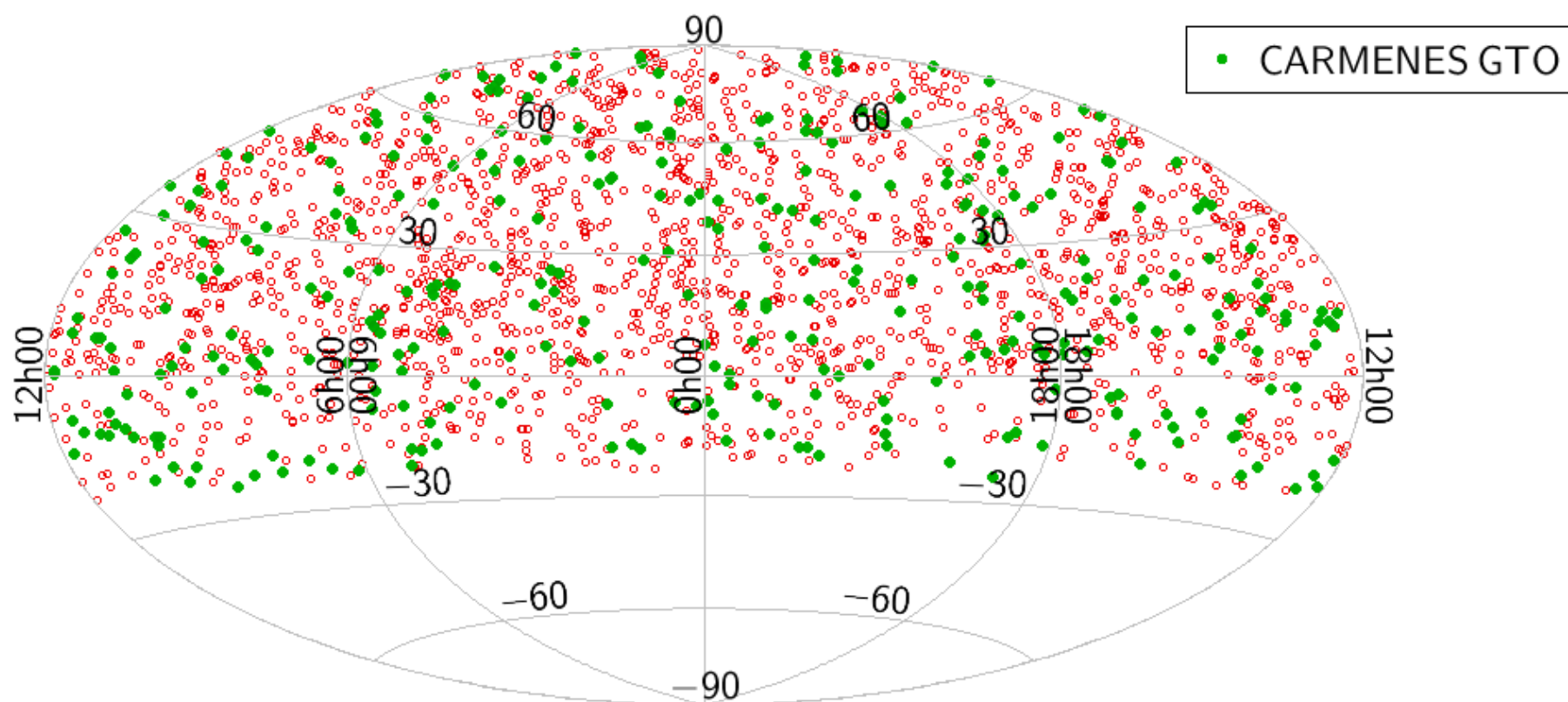
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CARMENCITA: How?



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1. Origin: catalogues



RECONS, PMSU, Lèpine & Gaidos 2011, ...

III/198/main Palomar/MSU nearby star spectroscopic survey (Hawley+ 1997) 1995AJ...110.1838R R
 Post annotation Basic data, velocities and space motions (tables 1a of both papers, table 5 of paper I, table 3 of paper II, and table 1d from paper I for stars 3804-3810; see also [errata](#) (1971 rows))

Full	RAJ2000	DEJ2000	recno	pmRA	pmDE	RV	U	V	W	Name	n	RAJ2000	DEJ2000	VMag	n	r	e	Dist	wPiwSp	f	Sp	n
	"h:m:s"	"d:m:s"		arcsec/yr	arcsec/yr	km/s	km/s	km/s	km/s			"h:m:s"	"d:m:s"	mag		pc	%	%	%	%		
1	00 04 39.1	-40 41 34	1	0.697	-1.460	7.0	2	-90	4	GJ 1001		00 04 39.1	-40 41 34	12.50		11.7	12		60	40	M3.5	
2	00 06 24.4	-37 21 25	2	5.633	-2.333	-1.4	-84	-99	-12	G1 1		00 06 24.4	-37 21 25	10.25		4.5	6		85	15	M1.5	
3	00 06 10.2	+45 47 12	3	0.879	-0.163	-1.5	-38	-24	-16	G1 2		00 06 10.2	+45 47 12	9.65		11.4	4		87	13	M1	
4	00 06 25.2	-50 02 52	4	-0.166	0.017	0.9	16	10	2	BPM16002		00 06 25.2	-50 02 52	10.10		23.4	15		0	100	M1.5	
5	00 05 40.3	+45 48 40	5	0.821	-0.172	10.0	-40	-13	-19	G1 4A		00 05 40.3	+45 48 40	8.68		11.4	4		87	13	K7	
6	00 05 40.3	+45 48 40	6	0.876	-0.128	15.3	-45	-9	-19	G1 4B		00 05 40.3	+45 48 40	8.74		11.4	4		87	13	K7	
7	00 06 18.4	-65 50 14	7	0.197	-0.559	-5.2	-4	-42	31	LHS1019		00 06 18.4	-65 50 14	10.84		18.4	15		0	100	M2.5	
8	00 06 18.4	-49 04 27	8	0.591	-0.040	17.1	-65	-47	-28	G1 4.2B		00 06 18.4	-49 04 27	9.13		29.8	14		54	46	K5.0	
9	00 06 42.5	-07 32 32	9	-0.817	-1.870	-31.4	36	-36	18	GJ 1002		00 06 42.5	-07 32 32	15.42		4.6	1		94	6	M5.5	
10	00 07 25.7	+29 14 41	10	1.505	-1.143	6.7	-83	-104	-115	GJ 1003		00 07 25.7	+29 14 41	12.70		19.7	4		90	10	M3.5	
11	00 07 59.2	+08 00 22	11	-0.368	-0.403	-51.3	62	-40	22	LHS 1022		00 07 59.2	+08 00 22	11.29		22.7	17		58	42	M3	
12	00 08 27.2	+17 25 27	12	-0.089	-0.055	10.3	8	8	-9	V 351		00 08 27.2	+17 25 27	9.13		21.5	29		0	100	M0	
13	00 08 18.3	-57 05 49	13	-0.366	-0.038	12.9	28	5	-6	LTT 57		00 08 18.3	-57 05 49	11.23		14.8	15		0	100	M2.0	
14	00 08 53.9	+20 50 26	14	-0.059	-0.237	-31.8	16	-27	12	G 131-026		00 08 53.9	+20 50 26	13.27		11.3	30		0	100	M4.5	
15	00 09 03.6	-27 07 20	15	0.679	0.075	-26.9	-78	-31	13	G1 7		00 09 03.6	-27 07 20	9.72		25.1	25		55	45	M0	
16	00 11 04.4	-05 47 01	16	0.252	0.009	0.7	-25	-12	-4	G 031-030		00 11 04.4	-05 47 01	8.97		23.9	29		0	100	K7	
17	00 13 14.9	+69 19 40	17	0.706	-0.313	10.2	-62	-18	-38	G1 11A		00 13 14.9	+69 19 40	11.51		20.4	7		80	20	M3	
18	00 13 39.9	+80 39 26	18	0.244	0.164	-18.0	-7	-28	3	G 242-048A		00 13 39.9	+80 39 26	10.02		16.6	29		0	100	M1.5	
19	00 13 45.1	+80 39 18	19	0.244	0.164	-17.6	-8	-28	4	G 242-048B		00 13 45.1	+80 39 18	14.70	a	17.5	30		0	100	M5	
20	00 15 27.7	-16 07 56	20	0.625	-0.595	-18.2	-7	-25	12	GJ 1006A		00 15 27.7	-16 07 56	13.29		5.6	4		92	8	M4	
21	00 15 36.4	-29 45 59	21	0.092	-0.092	63.4	6	-10	-64	GR 4		00 15 36.4	-29 45 59	12.88		19.4	15		0	100	M4.0	
22	00 15 48.9	+13 33 18	22	0.618	0.139	33.5	-47	15	-17	G1 12		00 15 48.9	+13 33 18	12.10		12.5	7		85	15	M3	
23	00 15 49.3	-67 59 49	23	0.610	-0.150	-32.4	-61	-22	26	LHS1051 A		00 15 49.3	-67 59 49	9.37		20.7	15		0	100	M0.5	
24	00 15 41.2	-67 59 32	24	0.610	-0.150	-42.4	-68	-20	33	LHS1049 B		00 15 41.2	-67 59 32	10.79		22.0	15		0	100	M2.5	
25	00 16 02.1	-48 15 34	25	-0.074	-0.226	10.9	14	-14	-4	LTT 123		00 16 02.1	-48 15 34	10.70		14.7	15		0	100	M2.5	
26	00 16 14.2	+19 51 42	26	0.701	-0.765	-17.4	-14	-62	-31	GJ 1006A		00 16 14.2	+19 51 42	11.52		14.1	2		85	15	M4	
27	00 16 15.7	+19 51 55	27	0.701	-0.765	2.2	-21	-52	-48	GJ 1006B		00 16 15.7	+19 51 55	12.33		15.1	2		91	9	M4	
28	00 16 21.3	+15 55 12	28	0.208	0.151	-74.5	-15	-49	64	Wo 9006		00 16 21.3	+15 55 12	11.00	a	29.2	17		71	29	M1.5	
29	00 16 56.6	+20 03 54	29	0.243	0.026	26.0	-30	7	-18	G 131-047		00 16 56.6	+20 03 54	12.04		22.2	30		0	100	M3.5	
30	00 16 56.3	+05 07 30	30	-0.055	-0.633	13.9	25	-26	-37	GJ 1007		00 16 56.3	+05 07 30	12.66		16.8	7		75	25	M4.5	
31	00 17 05.9	+40 56 53	31	0.553	0.100	16.6	-40	-1	-4	G1 14		00 17 05.9	+40 56 53	8.30		13.8	6		80	20	K7	
32	00 17 19.8	+29 10 54	32	0.667	0.425	-33.7	-60	-39	44	LHS 1054		00 17 19.8	+29 10 54	9.96		20.8	25		18	82	M2	
33	00 17 27.9	-08 44 23	33	0.371	-0.113	4.8	-29	-28	-14	G 158-051		00 17 27.9	-08 44 23	10.63		23.6	11		77	23	M1.5	
34	00 17 40.7	-08 40 56	34	0.269	0.019	17.5	-31	-8	-20	G 158-052		00 17 40.7	-08 40 56	8.89		26.4	12		66	34	M0	
35	00 17 54.4	-17 54 43	35	0.211	0.073	-16.0	-31	-9	13	G 266-083		00 17 54.4	-17 54 43	10.81		30.1	29		0	100	M2.5	
36	00 18 20.8	+44 01 19	36	2.882	0.415	13.5	-49	-10	-4	G1 15A		00 18 20.8	+44 01 19	10.36		3.5	1		96	4	M1	
37	00 18 23.8	+44 01 35	37	2.882	0.415	5.5	-45	-17	-1	G1 15B		00 18 23.8	+44 01 35	13.32		3.5	1		97	3	M3.5	
38	00 18 16.5	+10 12 09	38	0.000	-0.020	-45.4	10	-27	34	G1 16		00 18 16.5	+10 12 09	9.23		21.6	15		50	50	M1.5	
39	00 18 58.4	+27 48 31	39	0.388	-0.104	3.1	-30	-20	-14	G 130-063		00 18 58.4	+27 48 31	12.27		20.8	30		0	100	M4	

CARMENCITA: How?

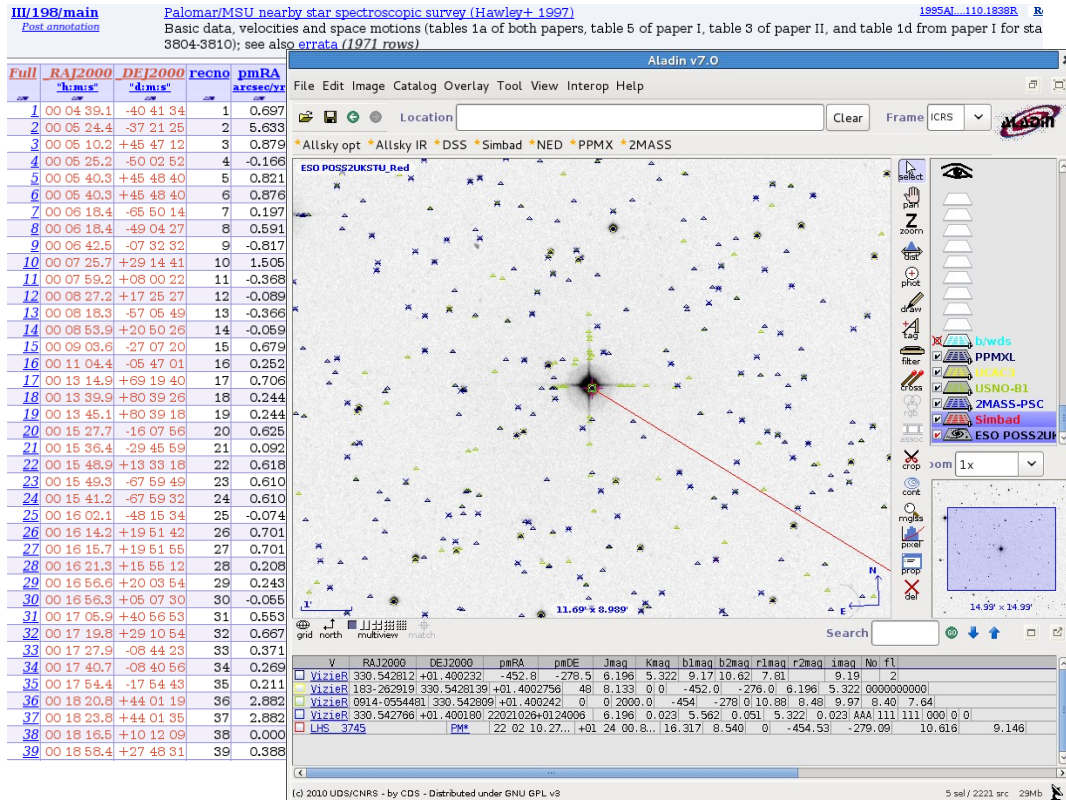


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2. Aladin Sky Atlas



2MASS, USNO-B1, UCAC3, PPMXL, WDS



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3. SIMBAD Astronomical Database



Names, references...

III/198/main
Post annotation

Palomar/MSU nearby star spectroscopic survey (Hawley+ 1997) 1895AL...110.1838R R
Basic data, velocities and space motions (tables 1a of both papers, table 5 of paper I, table 3 of paper II, and table 1d from paper I for stars 3804-3810); see also errata (1971 rows)

Full	RAJ2000	DEJ2000	rectno	pmRA
"J2000"	"J2000"		arcsec/yr	
1	00 04 39.1	-40 41 34	1	0.697
2	00 05 24.4	-37 21 25	2	5.633
3	00 05 10.2	+45 47 12	3	0.879
4	00 05 25.2	-50 02 52	4	-0.166
5	00 05 40.3	+45 48 40	5	0.821
6	00 05 40.3	+45 48 40	6	0.876
7	00 05 18.4	-65 50 14	7	0.197
8	00 05 18.4	-49 04 27	8	0.591
9	00 05 42.5	-07 32 32	9	-0.817
10	00 07 25.7	+29 14 41	10	1.506
11	00 07 59.2	+08 00 22	11	-0.368
12	00 08 27.2	+17 25 27	12	-0.089
13	00 08 18.3	-57 05 49	13	-0.366
14	00 08 53.9	+20 50 26	14	-0.059
15	00 09 03.6	-27 07 20	15	0.679
16	00 11 04.4	-05 47 01	16	0.252
17	00 13 14.9	+69 19 40	17	0.706
18	00 13 39.9	+80 39 26	18	0.244
19	00 13 45.1	+80 39 18	19	0.244
20	00 15 27.7	-16 07 56	20	0.625
21	00 15 36.4	-29 45 59	21	0.092
22	00 15 48.9	+13 33 18	22	0.618
23	00 15 49.3	-67 59 49	23	0.610
24	00 15 41.2	-67 59 32	24	0.610
25	00 16 02.1	-48 15 34	25	-0.074
26	00 16 14.2	+19 51 42	26	0.701
27	00 16 15.7	+19 51 55	27	0.701
28	00 16 21.3	+15 55 12	28	0.208
29	00 16 56.6	+20 03 54	29	0.243
30	00 16 56.3	+05 07 30	30	-0.055
31	00 17 06.9	+40 56 53	31	0.553
32	00 17 19.8	+29 10 54	32	0.667
33	00 17 27.9	-08 44 23	33	0.371
34	00 17 40.7	-08 40 56	34	0.269
35	00 17 54.4	-17 54 43	35	0.211
36	00 18 20.8	+44 01 19	36	2.882
37	00 18 23.8	+44 01 35	37	2.882
38	00 18 16.5	+10 12 09	38	0.000
39	00 18 58.4	+27 48 31	39	0.388

Aladin v7.0

File Edit Image Catalog Overlay Tools Portal Simbad VizieR Aladin X-Match Other Help

SIMBAD query result

Object query: LHS 3745 C.D.S. - SIMBAD4 rel 1.209 - 2013.10.08CEST15:11:09

Available data: Basic data Identifiers Plot & Images Bibliography Measurements External archives Notes Annotations

Basic data:
LHS 3745 -- High proper-motion Star

Other object types: * (AG, ASCC, BD, DO, GCV, GEMP, GJ, HD, HIC, HIP, MCC, PLX, PPM, TYC, UVV, USNO, VVO, Wof, Zsh, (HDE92), (HAG95))
PM (LHS, CL, G, LPT, LSPM, LTY, MLTY, PM), 1R (1985, 2005)
ICRS coord. (ep=j2000): 22 02 16.2788 +01 24 00.8202 (Optical) [16.32 8.54 0] A 2007A...474...553V
FK5 coord. (ep=j2000 eq=2000): 22 02 16.274 +01 24 00.83 (Optical) [16.32 8.54 0] A 2007A...474...553V
FK4 coord. (ep=B1950 eq=1950): 21 59 38.76 +01 09 44.8 (Optical) [94.42 49.25 0] A 2007A...474...553V
Gal coord. (ep=j2000): 060.9958 -40.2970 (Optical) [16.32 8.54 0] A 2007A...474...553V
Proper motions mas/yr [error ellipse]: -454.53 -279.09 (1.86 0.97 0) A 2007A...474...553V
Radial velocity / Redshift / cz: V(ha/s) 18.28 (0.09) / z(-) 0.000001 [0.000001] / cz 18.28 (0.09) (-) A 2007A...474...553V
Parallax mas: 97.61 (1.53) A 2007A...474...553V
Spectral type: M0 0 2010MNRAS...493...1949M
Fluxes (B): U 11.838 (-) C 2010MNRAS...493...1949M
B 10.616 (-) C 2010MNRAS...493...1949M
V 9.146 (-) C 2010MNRAS...493...1949M
R 8.213 (-) C 2010MNRAS...493...1949M
I 7.245 (-) C 2010MNRAS...493...1949M
J 6.196 (0.023) C 2003Cat...2246...BC
H 5.962 (0.051) C 2003Cat...2246...BC
K 5.322 (0.023) C 2003Cat...2246...BC

Identifiers (36):

LHS 3745	S 27-5	LSPM J2002+0124	TYC 559-1540-1
ASC 01 2676	S 26-44	LIT 16435	UVV M 26062
ASC 1175435	S 93-66	2MASX J20021026+0124406	UVV M 18018
BD+40 4019	SJ 446	MCC 305	USNO-B1.0 0914-00554481
CL 20 1331	HD 209290	MLT 52725	VVO 73
DO 7683	HIC 108762	PLX 5318	Wof 1340
GCV 13839	HIP 108762	PLX 5318.00	Zsh 327
GEM +1 00209290	IRAS 21596+0110	PM 21596+0110	(HDE92) 1478
S 18-16	LEI 1678	PM 172573	(HAG95) 3458

Plots and Images

plot CDS portal CDS Simplot (requires flash) Aladin applet

radius 10 arcmin

References (117 between 1850 and 2013)

Cinchad bibliography survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar

display

CARMENCITA: How?

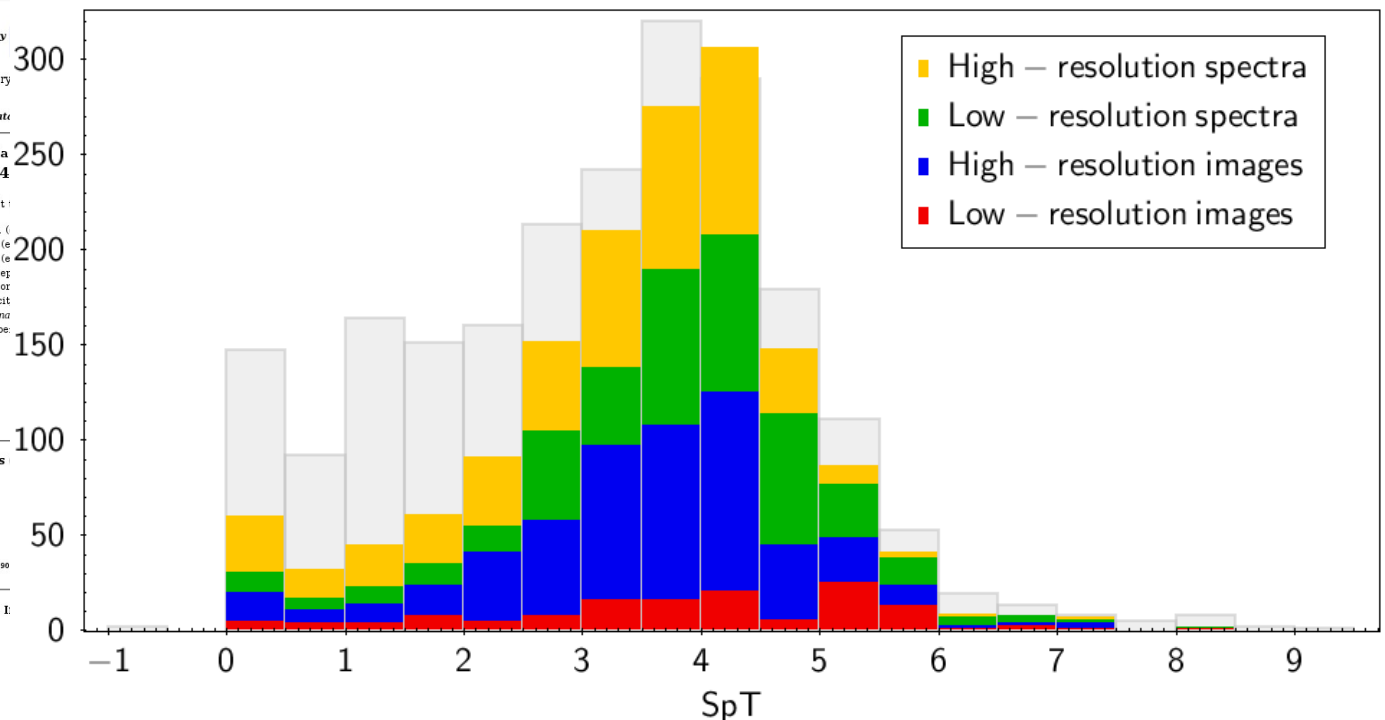
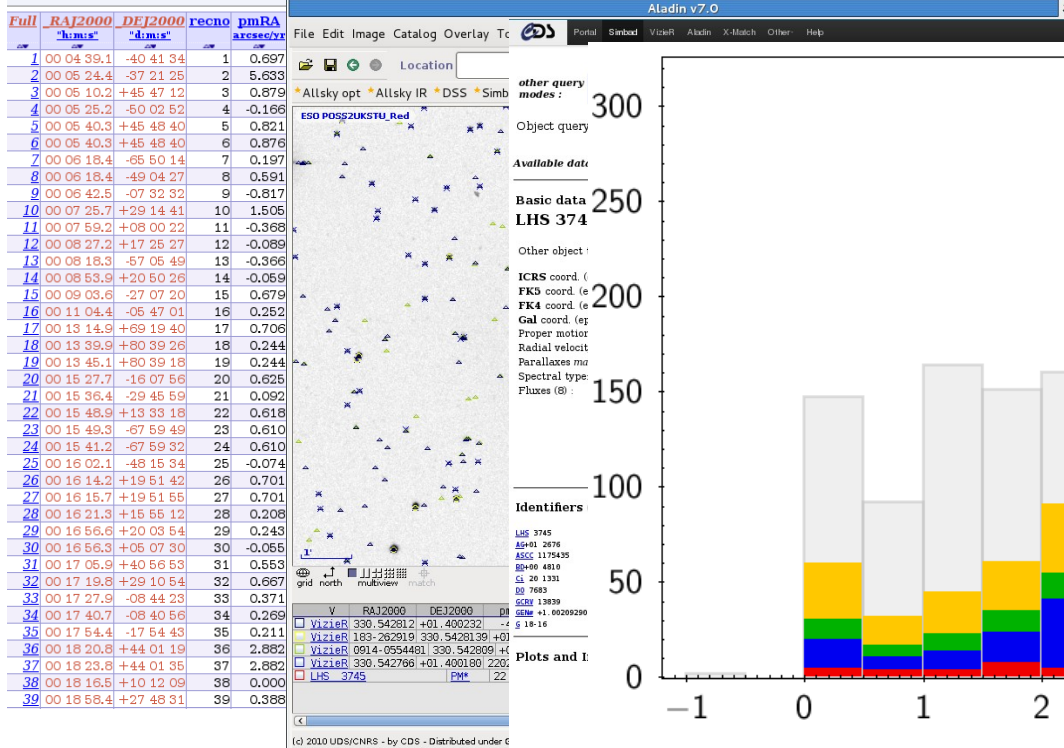


Carmencita

4. New observations

SpT, vsini, multiplicity, Teff, logg...

III/198/main
Post annotation
Palomar/MSU nearby star spectroscopic survey (Hawley+ 1997)
Basic data, velocities and space motions (tables 1a of both papers, table 5 of paper I, table 3 of paper II, and table 1d from paper I for stars 3804-3810; see also errata (1971 rows))



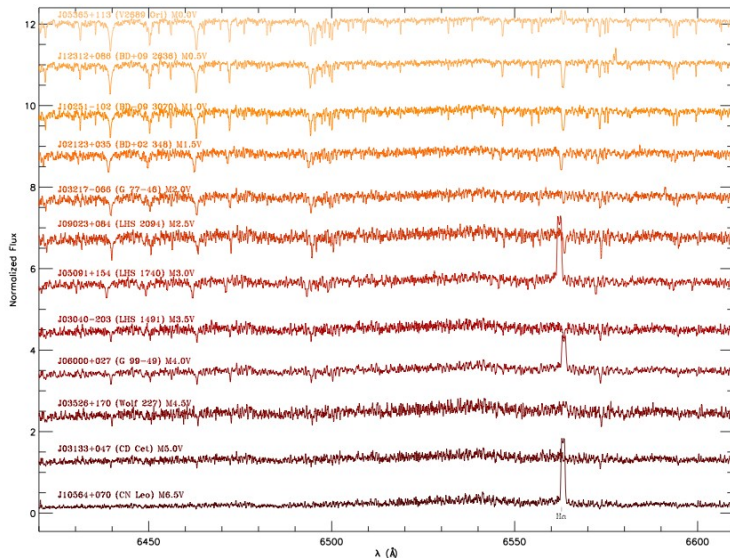


CARMENCITA: Scientific preparation



CARMENCITA: Scientific preparation

- Low-res spectroscopy [CAFOS]:
 - 424 **SpT**, 305 **pEW(H α)**, Alonso-Floriano et al. 2015
- Hi-res spectroscopy [FEROS, CAFE, HRS]:
 - 225 T_{eff} , $\log g$, **[Fe/H]**, Passegger et al. 2018
 - 273 **pEW(H α)** Schöfer M.Sc.
 - 270 V_r , 28 **SBs**, Jeffers et al. 2018

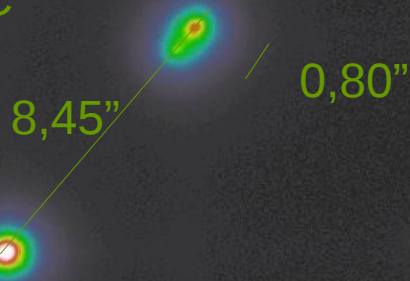




CARMENCITA: Scientific preparation

- Hi-res spectroscopy [CARMENES]:
 - 324 **v** **sini**, Reiners et al. 2017
 - 9 **SBs**, Baroch et al. 2018
- Low & high-res imaging [TCP/CAMELOT + FastCam]:
 - 137 + 491 studied, Cortés-Contreras et al. 2014, 2017

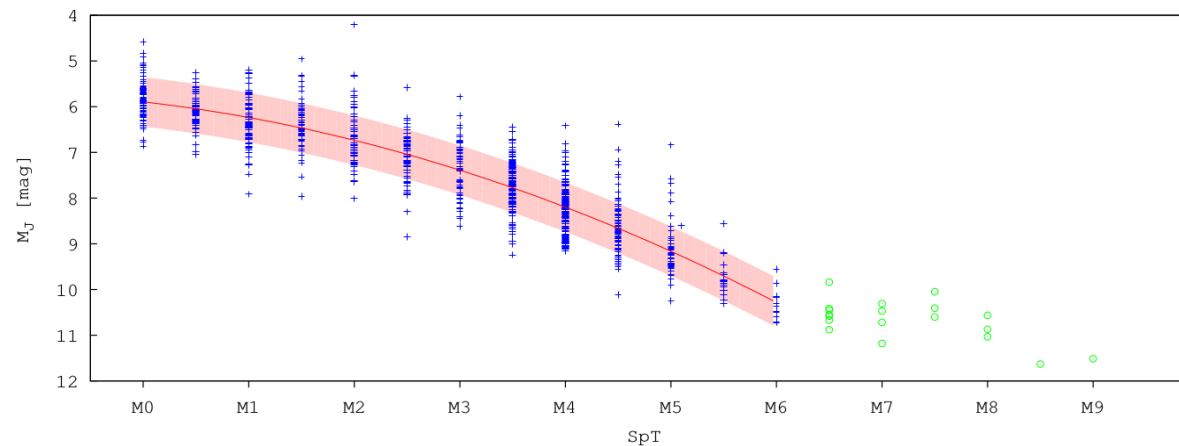
GJ 3331 A-BC





CARMENCITA: Scientific preparation

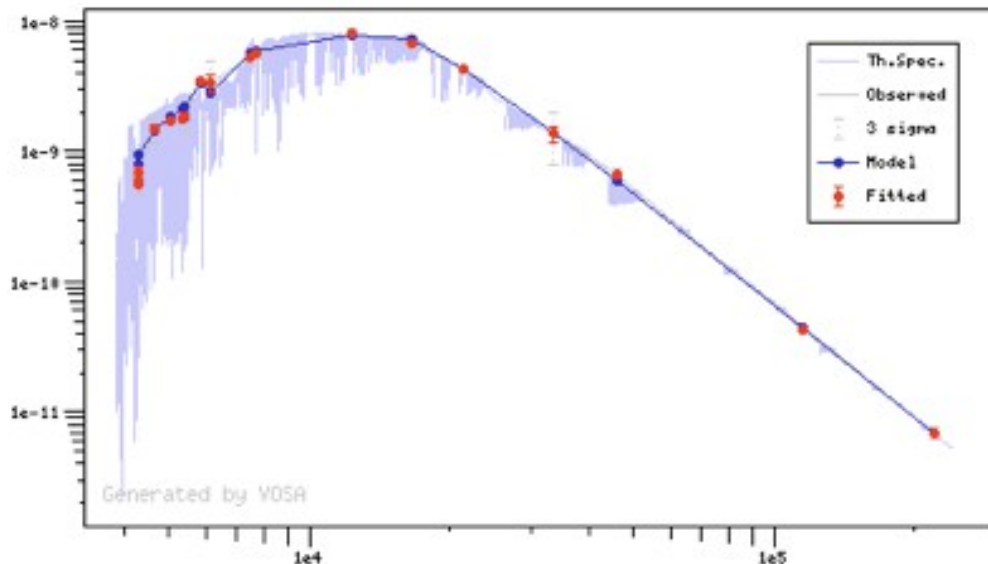
- Spectrophotometric **distance** estimation: 776 $\rightarrow$ 60
- **Proper motion** calculation: 498 $\rightarrow$ 32
- UVW calculation (SKG & Pop.): 1887 (Cortés-Contreras et al. in prep.)





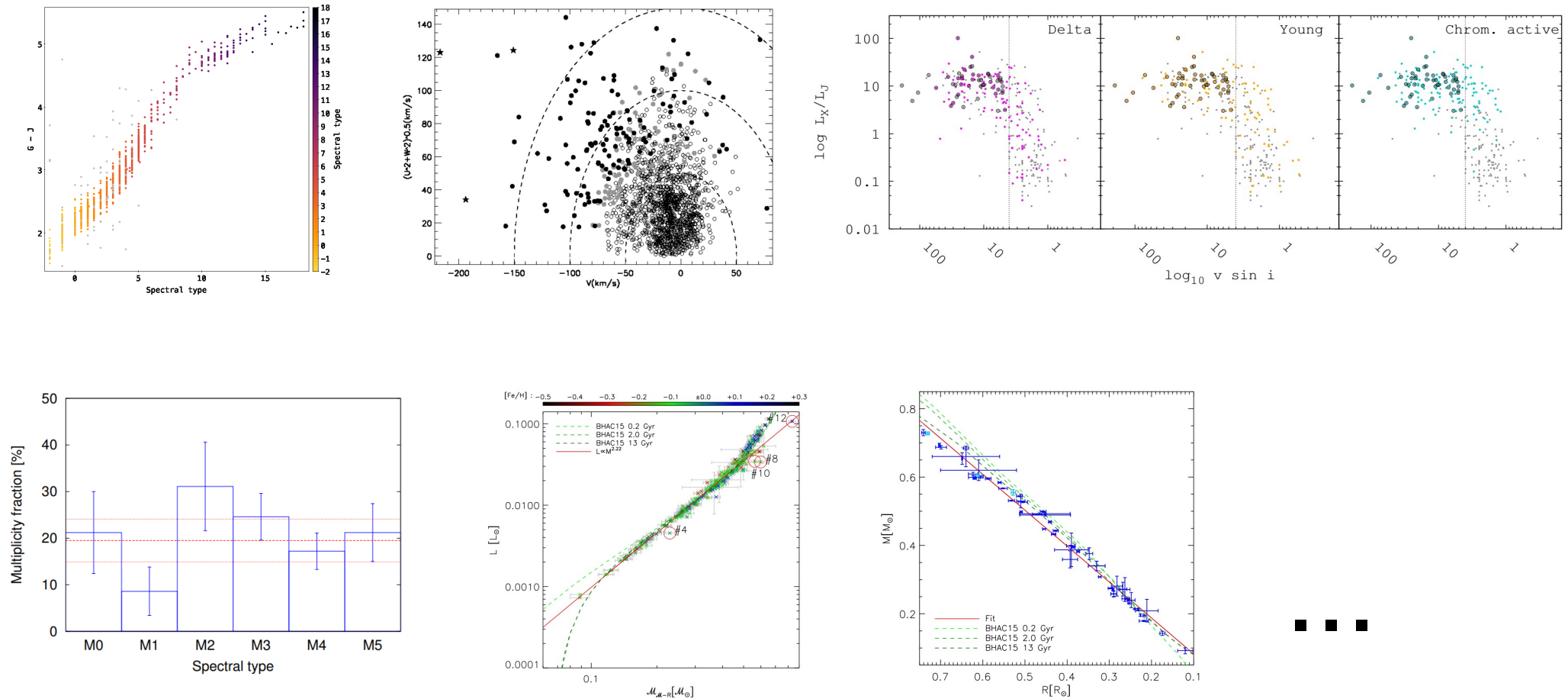
CARMENCITA: Scientific preparation

- P_{rot} determination: 142 (Díez-Alonso et al. 2018)
- **Luminosities, radii, masses:** 293 (Schweitzer et al. submitted)
- Multiband **photometry:** 2183 (Cifuentes et al. in prep)



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Ester González-Álvarez
Manuel Llamas Fernández
Iván Gallardo
Minjae Kim
Rodrigo González Peinado

CARMENCITA: And beyond





Thank you