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## **Orbital elements of double stars: ADS 5958, 7294 and 8211**

M. Scardia, Jean-Louis Prieur, Jean-Pierre Rivet, David Vernet, L. Pansecchi, R. Argyle, E. Aristidi, Abe Liu, Philippe Bendjoya, Cécile Combier-Dimur, et al.

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INTERNATIONAL ASTRONOMICAL UNION  
 COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)  
 DOUBLE STARS INFORMATION CIRCULAR No. 189 (JUNE 2016)

NEW ORBITS

ADS $\alpha$ 2000 $\delta$	Name n	P a	T i	e $\omega$	$\Omega$ (2000) Last ob.	2016 2017	Author(s)
5958 07176+0918	STT 170 1°1964	300 <sup>y</sup> 9 1"406	2014.75 108°9	0.514 120°7	93°0 2016.268	296°9 0"441 293.8 0.476	SCARDIA et al. (*)
6276 07417+3726	STT 177 2.0690	174.0 0.334	1956.64 180.0	0.792 105.6	60.7 2015.272	146.5 0.557 146.1 0.560	SCARDIA et al. (**)
7294 09186+2049	HO 43 0.4389	820.2 0.905	1943.74 139.9	0.664 203.7	60.2 2016.296	97.6 0.594 97.0 0.600	SCARDIA et al. (*)
8211 11330+0938	A 2576 AB 0.9633	373.7 0.645	1871.40 55.6	0.487 95.6	11.5 2016.342	262.7 0.541 263.4 0.541	SCARDIA et al. (*)
- 14262-4523	I 402 13.8376	26.016 0.151	2021.305 65.3	0.962 223.3	158.0 2016.1354	186.4 0.157 188.1 0.137	DOCOBO et al.(***)
9689A 15332-2429	CHR232Aa,Ab 21.8142	16.503 0.093	2011.525 124.2	0.416 322.6	11.8 2016.1409	263.0 0.065 244.0 0.079	DOCOBO et al. (***)
10542 17251+3444	HU 922 Aa,Ab 2.7196	132.4 0.299	1995.12 137.6	0.462 58.1	203.1 2013.342	31.1 0.280 29.1 0.288	RICA
- 18126-7340	HDO 284 AB 1.1084	324.8 1.522	2110.09 15.9	0.628 5.0	62.6 2015.338	270.7 2.133 271.2 2.123	LING

(\*) SCARDIA, PRIEUR, RIVET, VERNET, PANSECCHI, ARGYLE, ARISTIDI, ABE, BENDOYA, COMBIER-DIMUR & SUAREZ

(\*\*) SCARDIA, PRIEUR, PANSECCHI, ARGYLE & ARISTIDI

(\*\*\*) DOCOBO, GOMEZ & CAMPO

**NEW LINEAR FITS**

<b>ADS</b> $\alpha 2000\delta$	<b>Name</b>	$X_0$ $Y_0$	$X_A$ $Y_A$	$\rho_0$ $\theta_0$	$T_0$ <b>Last ob.</b>	<b>2016</b> <b>2017</b>	<b>Authors</b>
- 03351-2309	ARA 1976 -	-4.504197 2.001529	-0.046804 -0.105327	4.929 246.040	1955.9290 2015.1140	299.9 8.350 300.1 8.387	MASON & HARTKOPF
3093 04153-0739	STF 518BD -	20.524677 9.793157	3.329625 -6.978290	22.741 115.510	1940.7629 1999.9700	27.8 569.809 27.8 572.900	MASON & HARTKOPF
3093 04153-0739	STF 518BE -	-139.233856 -91.335197	2.209613 -3.368393	166.518 303.260	1866.2841 1999.9700	17.6 619.481 17.7 621.033	MASON & HARTKOPF
- 14537+2321	COU 101 -	-0.010519 -19.120316	0.794487 -0.000437	19.120 359.970	1940.9540 2015.3101	71.8 61.404 71.9 61.706	MASON & HARTKOPF
9446 14575-2125	HN 28AC -	-16.316538 9.860380	-1.041795 -1.723919	19.065 238.850	1902.1420 2000.1400	324.0 226.920 324.0 227.723	MASON & HARTKOPF
9446 14575-2125	HN 28AD -	58.515156 -36.082726	-1.061747 -1.721829	68.746 58.340	1874.5420 1998.3700	342.0 291.146 341.9 291.933	MASON & HARTKOPF
9446 14575-2125	HN 28AE -	-26.567135 16.209349	-1.054465 -1.728270	31.122 238.610	1927.7750 1998.3700	318.5 178.117 318.6 178.914	MASON & HARTKOPF
- 16555-0820	SLE 687AB,E -	-216.145035 -192.795776	0.787476 -0.882847	289.636 311.730	1959.1040 2007.3510	324.5 296.932 324.6 297.038	MASON & HARTKOPF
- 17121+4540	KUI 79AB,C -	-20.984079 3.395643	-0.254356 -1.571844	21.257 260.810	1915.5400 2013.4843	343.1 158.843 343.1 159.474	MASON & HARTKOPF
10417 17153-2636	SHJ 243AE -	-29.751654 -23.395960	0.062750 -0.079797	37.849 308.180	1976.8060 2000.2220	314.0 38.041 314.0 38.045	MASON & HARTKOPF
14636 21069+3845	STF 2758AC -	113.215828 144.966675	-4.195404 3.276520	183.938 142.010	1862.2140 1998.4700	219.2 830.744 219.2 832.821	MASON & HARTKOPF
14636 21069+3845	STF 2758AE -	-122.057510 -152.795013	-4.117521 3.289207	195.562 321.380	1963.7030 2014.7889	267.6 331.109 267.4 332.817	MASON & HARTKOPF
14636 21069+3845	STF 2758AF -	-33.886742 -42.770927	-4.110356 3.256572	54.568 321.610	1946.5210 2014.7531	240.3 360.123 240.3 362.197	MASON & HARTKOPF
14636 21069+3845	STF 2758AG -	-11.773387 -14.870602	-4.128144 3.268344	18.967 321.630	1967.3380 2014.7531	236.0 248.520 236.0 250.620	MASON & HARTKOPF

**NEW LINEAR FITS (continuation)**

<b>ADS</b> $\alpha$ <b>2000</b> $\delta$	<b>Name</b>	$X_0$ $Y_0$	$X_A$ $Y_A$	$\rho_0$ $\theta_0$	$T_0$ <b>Last ob.</b>	<b>2016</b> <b>2017</b>	<b>Authors</b>	
14636 21069+3845	STF 2758AH -	-42.590023 -53.873825	-4.141312 3.273918	68.675 321.670	1999.9530 2014.9640	273.7 273.0	102.666 104.263	MASON & HARTKOPF
14636 21069+3845	SMR 1AI -	-1.849575 -2.340772	-4.152935 3.281455	2.983 321.690	2012.4360 2014.7531	249.3 247.2	10.859 12.919	MASON & HARTKOPF
14636 21069+3845	SMR 40AO -	-75.119171 -95.270378	-4.076965 3.214622	121.323 321.740	1997.3640 2014.7531	285.7 285.1	150.179 151.429	MASON & HARTKOPF
14636 21069+3845	SMR 40AP -	-81.249062 -102.215385	-4.083682 3.246041	130.573 321.520	2002.2550 2014.7531	295.7 294.9	145.178 148.964	MASON & HARTKOPF
14636 21069+3845	STF 2758BC -	99.533676 131.775070	-4.118609 3.110909	165.141 142.940	1859.2760 1998.4700	221.3 221.3	817.521 819.544	MASON & HARTKOPF
14636 21069+3845	FYM 106BN -	28.598776 37.491646	-4.110744 3.135692	47.154 142.660	2014.8370 2012.6670	139.9 142.4	47.389 47.426	MASON & HARTKOPF
15972 22280+5742	KR 60AD -	-6.508276 -12.849073	0.800102 -0.405265	14.403 333.140	1883.4969 2011.8209	56.1 56.1	118.285 118.641	MASON & HARTKOPF
15972 22280+5742	KR 60AG -	20.487732 46.400867	0.714324 -0.315401	50.723 156.180	1956.9470 2009.9860	114.7 114.5	67.717 67.925	MASON & HARTKOPF
15972 22280+5742	HEL 4AJ -	13.677111 21.802040	0.693067 -0.434783	25.737 147.900	1994.2810 2012.6830	115.3 114.8	30.556 30.736	MASON & HARTKOPF
15972 22280+5742	FYM 118AM -	-34.833797 -62.012039	0.732354 -0.411383	71.126 330.680	1975.9750 2012.6830	355.1 355.3	78.109 78.250	MASON & HARTKOPF
15972 22280+5742	FYM 118AO -	35.902714 70.229584	0.681850 -0.348575	78.875 152.920	1983.2740 2012.6830	136.1 135.9	82.399 82.489	MASON & HARTKOPF
15972 22280+5742	FYM 118AS -	-3.240458 -5.390899	0.717839 -0.431491	6.290 328.990	2030.6379 2012.6830	263.9 264.4	14.987 14.685	MASON & HARTKOPF
16644 23171-1349	BU 182AB,C -	52.508385 21.901031	0.493992 -1.184360	56.893 112.640	1869.7629 2000.5601	39.7 39.6	194.130 194.621	MASON & HARTKOPF
- 23174+3813	HDS 3319 -	-11.799959 -5.921821	-0.216967 0.432334	13.203 296.650	1989.5470 2008.5470	254.3 253.9	17.858 17.990	HARTKOPF & MASON

**NEW LINEAR FITS (continuation)**

<b>ADS</b> $\alpha 2000\delta$	<b>Name</b>	$X_0$ $Y_0$	$X_A$ $Y_A$	$\rho_0$ $\theta_0$	$T_0$ <b>Last ob.</b>	<b>2016</b> <b>2017</b>	<b>Authors</b>
- 23317+1956	LMP 24AC -	4.145409 -29.848480	-0.529184 -0.073494	30.135 7.910	2026.3660 2012.7050	19.9 30.809 19.5 30.767	MASON & HARTKOPF

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**J. A. Docobo** (joseangel.docobo@usc.es)

**J. F. Ling** (josefnaf.ling@usc.es)

Tel: +34 881 815 016

Fax: +34 881 813 197

Observatorio Astronómico R. M. Aller

P. O. Box 197

<http://www.usc.es/astro>

Universidade de Santiago de Compostela

SPAIN

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