

Observatorio Astronómico Ramón María Aller

INFORMATION CIRCULAR No. 121 (OCTOBER 1993)

NEW ORBITS

ADS Name	P (yr)	T	e	W(2000)	1994	Author
RA 2000 DEC	n (deg)	a (")	i (deg)	w (deg)	1995	Last ob.
2578 A983	291.70	1976.30	0.39	143.4	128.4 0.28	DOCOBO-LING
03310N2937	1.2341	0.450	56.4	283.3	129.5 0.29	1993.663
- COU 1688	9.15	1987.02	0.08	26.5	228.7 0.13	BAIZE
03320N4341	39.3443	0.144	43.7	303.9	270.8 0.10	1986.57
- COU 691	31.42	1994.83	0.61	55.8	222.4 0.04	BAIZE
03423N3141	11.4577	0.104	49.2	205.6	261.0 0.04	1988.06
- COU 985	28.93	1987.85	0.47	81.2	343.4 0.12	BAIZE
16384N3514	12.4438	0.168	48.1	136.0	355.9 0.13	1992.55
- COU 1291	58.56	1978.13	0.19	37.3	278.5 0.12	BAIZE
17075N3810	6.1475	0.141	37.0	128.3	284.7 0.13	1992.54
- COU 1786	18.75	1996.78	0.49	61.5	232.5 0.09	BAIZE
18043N4206	19.2205	0.102	49.5	279.3	249.6 0.07	1992.55
- COU 1962	31.41	1980.14	0.25	109.0	291.9 0.25	DOCOBO-LING
20311N3332	11.4613	0.202	71.1	22.1	294.3 0.24	1993.663
- COU 537	68.49	1993.05	0.53	52.0	150.9 0.07	BAIZE
22077N2622	5.2562	0.22	48.8	77.0	176.6 0.08	1992.53
- COU 439	59.64	1960.86	0.36	17.6	235.2 0.20	BAIZE
23199N2845	6.0362	0.185	52.0	41.1	238.3 0.19	1992.21

NEW SPECTROSCOPIC COMPONENTS IN LATE-TYPE VISUAL DOUBLE STARS

NAME	RA 2000.0 DEC	NOTE
ADS 8861 A	13 19.5 N 35 08	P = 133 D, SB2
KUI 8A A	= BD +04 3562 17 58.4 N 04 27	P = 34.5 D, SB2
ADS 11061 A	18 00.1 N 80 00	P = 1275 D, SB2
COU 327	= BD +19 4380 20 21.6 N 19 30	SB1
COU 542 A	= BD +23 4640 22 57.0 N 24 41	P = 118 D, SB1

New sub-systems in ADS 8861 and ADS 11061 were resolved by Yu. Balega et al. at the 6m telescope by speckle interferometry in May 1993.

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DISCOVERY OF SPECTROSCOPIC SUB-SYSTEMS IN VISUAL DOUBLE STARS

ADS	RA 2000.0 DEC	M	SPA	M	SPB

A. Certain sub-systems					
1 363	00 27.1 S 07 53	8.9	G5V	8.9	K0V
2 3248	04 29.0 N 16 10	7.0	F7V	7.7	G0V
3 12040	19 06.2 N 30 26	8.5	K0	9.7	

B. Suspected radial velocity variability

1 2390	03 12.1 N 37 12	8.1	G0	8.3	
2 4200	05 36.4 N 21 00	7.2	F8	7.8	
3 11680	18 46.6 N 38 21	8.7	G9V	9.0	K1V
4 13987	20 32.9 N 13 57	10.4	K0	10.9	
5 15610	22 05.1 N 29 52	9.1	F8V	9.9	
6 16131	22 38.5 N 02 18	8.2	G0	9.7	

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GENERAL INFORMATION

The group of European astronomers coordinated by E. OBLAK is concerned with the study of visual double stars with angular separations of 1 - 15 arc seconds. The group applies CCD photometry with VRI filters to objects listed in the Hipparcos Catalogue. It has used observatories at La Silla (Chile) (under an ESO project ending in 1994), La Palma and Calar Alto (Spain), Haute-Provence (France), Suhora (Poland), Hoher List (Germany) and Chiang Ma (Thailand), and also Chinese observatories.

As a side-project in collaboration with the Strasbourg Star Data Centre and Dr. P. Couteau of the Nice Observatory (future collaboration with the Toulouse Observatory is also expected), a photometric data base for star systems is being compiled at the Besancon Observatory, and will later be generalized to include all categories of systems.

The ultimate objective of these projects is to investigate the formation and evolution of stars in relationship to galaxy structure.

J. A. Docobo's research group is engaged in a three-year (1993-1995) programme involving micrometer measurements of visual double stars at Pic du Midi and Nice (France), Calar Alto and Fabra (Spain) and Merida (Venezuela), as well as CCD measurements of wide binaries at Merida

(Venezuela) and Yebes (Spain).

On September 27th last the "Ramon Maria Aller" Observatory of the University of Santiago de Compostela (Spain) celebrated its 50th anniversary.

ERRATA

P. Baize asks for the following errata in previous Circulars to be noted.

Circular No. 119: In the orbit of McAl 33, w should be 158.0 deg, not 113.0

Circular No. 120: ADS 9547 is Ho 60 not Ho 50

**The deadline for contributions to Information Circular No. 122 is:
February 15th 1994**

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