

# Observatorio Astronómico Ramón María Aller

## INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26 (DOUBLE STARS)

### INFORMATION CIRCULAR No. 133 (OCTOBER 1997)

#### NEW ORBITS

ADS RA 2000 DEC	Name n (deg)	P (yr) a (")	T i (deg)	e w (deg)	W(2000) Last ob.	1997 1998	Author
48 00057 N 4549	STT 547AB 0.9620	374.24 6.634	2072.33 64.6	0.551 273.2	20.8 1994.796	181.0 181.4	6.039 6.036 OLEVIC & JOVANOVIC
6526 08017 S 0836	A 1580 2.3624	152.39 0.482	2028.81 80.4	0.786 268.7	114.4 1991.9052	274.0 274.7	0.276 0.279 OLEVIC & JOVANOVIC
10374 17103 S 1544	BU 118 4.1096	87.60 1.519	1936.88 94.9	0.954 274.5	39.2 1996.69	244.8 243.9	0.53 0.54 DOCOBO & LING
-- 21044 S 1951	FIN 328 19.2296	18.721 0.392	1977.01 119.4	0.841 96.1	49.2 1992.4498	183.8 172.5	0.249 0.277 OLEVIC & JOVANOVIC
16157 22401 N 0112	A 2099 1.5475	232.63 0.568	1917.63 75.7	0.437 178.2	168.8 1997.679	161.3 161.6	0.67 0.68 DOCOBO & LING

#### THE VARIABILITY OF COU 14

V.S.Tamazian, J.A.Docobo and N.D. Melikian report an integral brightness variation of visual double star COU 14 = WDS 21501N1717 by 0.3mag. in standard V passband registered during recent photometric observations performed at Byurakan Observatory, (Armenia) in July-September, 1997.

Probably, the secondary component is T Tau type variable with an amplitude of more than 3mag. More details in IBVS No.4515 are given.

These observations confirm the variability suggested by P.Couteau.

#### REPORT

Commission 26, Division IV Double and Multiple Stars

President: H. Zinnecker

Vice-President: C. Scarfe  
Organizing Committee: C. Allen

J. Armstrong  
W. Hartkopf  
R. Mathieu  
A. Tokovinin  
M. Valtonen  
C. Worley (ex-officio)

New members: R. Hindsley (USA) C. Prieto (Spain)  
C. Hummel (Germany) G. Torres (USA)  
D. Jassur (Iran) S. Soederhjelm (Sweden)  
E. Martin (Spain) J. Wang (China,PR)  
R. Mathieu (USA)

Consultant: B. Mason (USA)

Necrology: I regret to inform you of the deaths of the following members:

P. Baize A. Shul'berg  
W. Luyten P. van de Kamp

A business meeting of the Commission was held at Kyoto on Aug. 22, 1997. As expected, attendance was small (9 members). Results of the mail ballot resulted in the election to office of those names starred above. As is customary, the former Vice-President, Dr. Zinnecker, succeeds to the Presidency.

There was a brief discussion of the future direction the Commission might take, and there was general agreement that this would undoubtedly involve the combination of the classical astrometry and spectroscopy of binary stars with rapidly growing and much more accurate modern techniques. Also, it was emphasized that a true understanding of the mechanisms of star formation cannot be attained without accounting for the large number of binary and multiple stars extant.

Two important meetings concerning binary and multiple stars occurred in 1995 (Calgary, Canada) and 1996 (Santiago de Compostela, Spain). Dr. Zinnecker tentatively proposed a future Symposium about the year 2000 on general topics of interest. Worley reported on the present status of the Washington Visual Double Star Catalog and the Orbit Catalog, as well as the progress of the speckle program and the Navy Prototype Optical Interferometer.

Charles E. Worley  
President 1994-97

---

---

## NEW DOUBLE STAR

Par	m(pg)	RA	sa	DEC	sd	mua	smua	mud	smud	N	ep	mem
		(0.001s)		(0"001)	(mas/yr)	(mas/yr)				(1950.+)		

1052	14.40	053255.592	2	-054348.99	1	27.0	0.7	17.3	0.4	9	-7.4	0
1058	14.40	053256.838	2	-054405.78	2	26.8	0.8	16.9	0.5	10	-3.5	0

Par: Parenago (1954) number

RA, Dec: epoch 1950, equinox 2000, positions in Hipparcos reference system.

sa, sd: accuracies on RA, Dec.

mua, mud: Proper motion, transformed to PPM system ( $\mu_a \cos \delta$ ,  $\mu_d$ )

smua, smud: errors on proper motions

N: number of plates used

ep: mean epoch of plates used.  
mem: membership probability

In a recent study of proper motions in the Orion cluster region we discovered what seems to be a new double star (a proper motion pair), with a separation of 25" and minimal differences in the proper motions.

The positions are in the Hipparcos reference frame. The little information I have on the (very similar) colours of these stars indicate early K-type dwarfs, at an estimated distance of 120 to 200 pc.

The data given above come from K. P. Tian, F. van Leeuwen, J. L. Zhao and C. G. Su. Astron. Astrophys. Suppl. Ser. 118, 503 (1996).

Floor van Leeuwen  
Royal Greenwich Observatory  
Cambridge U.K.

---

The deadline for contributions to Information Circular No. 134 is:

February 15th 1998

J. A. Docobo (oadoco@usc.es)  
J. F. Ling (oafana@usc.es)  
Fax: (81) 59 70 54

Observatorio Astronomico "R. M. Aller"  
P. O. Box 197  
Universidade de Santiago de Compostela  
SPAIN