

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 168 (JUNE 2009)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2009 2010	Author(s)
- 21000+4004	KUI 103 12°2034	29 ^y 5 0''691	2006.48 36°3	0.600 329°6	283°6 2008.664	347°6 0''407 7.0 0.479	GILI
- 01259-4754	RST 33 1.6704	215.5 1.154	1951.21 112.5	0.901 71.8	154.7 2001.8648	300.4 1.110 300.1 1.113	DOCOBO & LING
- 06573-3530	I 65 21.4669	16.77 0.207	2009.20 33.8	0.444 246.9	122.9 2006.1936	352.3 0.103 60.4 0.109	DOCOBO & LING
7744 10227+1521	STT 216 1.1431	314.93 1.840	1941.24 144.6	0.544 42.1	53.3 2009.330	234.6 2.136 234.0 2.153	SCARDIA et al. (*)
- 14459+2344	COU 100 4.6030	78.21 0.420	2009.42 102.7	0.815 255.0	25.5 2007.487	193.6 0.061 49.2 0.043	DOCOBO & TAMAZIAN
13961 20325-1637	SEE 512 4.3806	82.18 0.290	1996.66 99.5	0.031 252.2	125.8 2007.509	137.2 0.184 135.6 0.200	DOCOBO & TAMAZIAN
15971 22288 -0001	STF 2909 0.7397	486.70 3.380	1982.73 141.7	0.343 273.0	133.2 2008.734	172.8 2.113 171.4 2.135	SCARDIA et al. (*)
16648 23175+1652	HU 497 BC 1.9934	180.6 0.292	2032.45 117.1	0.313 54.2	62.4 2005.8655	74.9 0.230 73.5 0.231	LING

(*) SCARDIA, PRIEUR, PANSECCHI & ARGYLE

NEW DOUBLE STAR

Discovered by: R. Gili with Interferometry and Lucky imaging at the 76 cm refractor at Nice Observatory.

(This star is Bb component of COU 555 AB)

STAR	Mgn	Coord. 2000	Epoch	θ	ρ	nights
GII 2 Bb	13.4 - 13.8	0255390 + 302803	2008.066	155°1	0"454	Interferometry
			2008.066	154.7	0.43	Lucky imaging

ANNOUNCEMENT

NEW INSTRUMENTATION FOR THE INVESTIGATION OF BINARY STARS AT THE R. M. ALLER OBSERVATORY

*) The EMCCD speckle camera

The PhotonMAX EMCCD based speckle camera optimizes very high quantum efficiency along with extremely low read noise. It delivers a very high signal-to-noise ratio through the camera's back-illuminated EMCCD with $> 90\%$ quantum efficiency and an on-chip multiplication gain. This effectively reduces read noise to well below $1 e^-$ rms. As a result, the PhotonMAX achieves single photon sensitivity, and single photoelectron events are recorded with a signal-to-noise ratio of about 50.

***) The mid-resolution spectrograph ALTAIR

This mid-resolution spectrograph in combination with the FLI PL09000 3055x3055 pix CCD detector is designed for detailed studies of stellar spectra with moderate spectral resolution. It can be attached to telescopes of up to 1.5 m aperture. Its 600 grooves/mm grating provides lineal dispersion of 102Å/mm and resolution power of $R=1000$ in the spectral range of 3800-7500Å. The 0.6x15mm slit provides high quality spectra for medium brightness stars of 8-12 mag with our Observatory's 0.62m telescope. These spectra can also be used to measure stellar radial velocities with an accuracy of up to 3-4 km/sec which, in some cases, is enough to suspect the presence of a third body in binary systems.

Jose-Angel Docobo
Director
R. M. Aller Observatory

NOTE

Dr. Paul Couteau, Honorary Astronomer of the Observatoire de la Côte d'Azur (Nice site) and past President of the IAU Commission 26 (1967- 1970), was named as Knight of the French Legion of Honor. This is a French order established by Napoleon Bonaparte in 1802 and is the highest decoration in France.

The distinction was handed over to Dr. Couteau by Jean-Claude Pecker, member of the French Science Academy. The ceremony was held at the Nice Observatory on June 11, 2009.

The Editors

The deadline for contributions to Information Circular No. 169 is:

October 15th 2009

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