

1.

Telescope: T40
Title: UBV Photometry of the Massive Eclipsing Binary TT Aur
Authors: S. Özdemir, H. Ak, M. Tanrıver, H. Gülseçen, S. Gülseçen, A.T. Saygaç, E. Budding, O. Demircan
Journal: Publications of the Astronomical Society of Australia, 2001, Volume 18, Issue 2, pp. 151-157.
Publication Date: 00/2001
Keywords: stars: mass loss, binaries: close, stars: individual (TT Aurigae) technique: photometric technique: miscellaneous
ADS: [2001PASA...18..151O](#)

Abstract

UBV observations of the massive binary system TT Aur were carried out mainly at the Turkish National Observatory (TUG). These observations, together with IUE spectra and times of eclipse minima collected from the literature, were used to study the system parameters. Simultaneous solution of the light curves by the Wilson-Devinney code allows a semi-detached configuration with a slightly larger Roche-lobe filling secondary. This picture is supported by other evidence. The shoulders of the primary minimum suggest some excess absorption, in keeping with circumstellar material in the form of a disk-like structure around the primary component. The deeper primary minimum in the U filter may indicate a hotter region on the secondary-facing hemisphere of the primary. The period variation of the system can also be related to the possible existence of a third component in a circular orbit around the system. An alternative detached representation is also considered using optimal curve-fitting techniques. We appeal for further observations to help resolve some outstanding issues in this interesting massive binary.

2.

Title: Ground Based Light Curves of V397 Cep
Authors: İ. Bulut; O. Demircan; A. Erdem; C. Çiçek; S. Özdemir; F. Soydugan; E. Soydugan; Ö.L. Değirmenci; Z. Bozkurt, K. Yakut; H. Esenoğlu
Journal: Southern CCD and Photometry Group Communique, Vol 2, Issue 4, p. 7.
Publication Date: 2001
Keywords:
ADS:
Abstract, Not Available

3.

Title: A light and period study of SV Camelopardalis

Authors: Albayrak, B.; Demircan, O.; Djurasevic, G.; Erkapic, S.; Ak, H.

Journal: Astronomy and Astrophysics, v.376, p.158-164.

Publication Date: 09/2001

Keywords: STARS: BINARIES: ECLIPSING, STARS: INDIVIDUAL: SV CAM

ADS: [2001A&A...376..158A](#)

Abstract

New BVR light curves and times of minimum light for the short period RS CVn system SV Cam were analysed to derive the physical parameters of the system and the parameters of the third body orbit. The light curves obtained at the TÜBITAK National Observatory during two nights in 2000 show considerable asymmetry and night-to-night variations. The analysis of the light curves is made using Djurasevic's inverse problem method. The Roche model with spotted areas on the hotter primary component yields a good fit to observations. The extensive series of published photoelectric minima times indicate that the eclipsing pair orbits around the common mass center of the triple system with a period of 41.32 yr. Table 1 is only available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via <http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A+A/376/158>

4.

Title: The First Ground-based Photometric Observations of V397 Cephei

Authors: Bulut, I.; Demircan, O.; Erdem, A.; Çiçek, C.; Özdemir, S.; Soydugan, F.; Soydugan, E.; Değirmenci, O. L.; Bozkurt, Z.; Yakut, K.; Esenoğlu, H.; Hegedus, T.; Borkovits, T.; Biro, I. B.

Journal: Information Bulletin on Variable Stars, 5129, 1.

Publication Date: 06/2001

Keywords:

ADS: [2001IBVS.5129....1B](#)

Abstract

Not Available

5.

Title: Photoelectric Observations of DR Vulpeculae
Authors: Çiçek, C.
Journal: Information Bulletin on Variable Stars, 5142, 1.
Publication Date: 07/2001
Keywords:
ADS: [2001IBVS.5142....1C](#)
Abstract
Not Available

6.

Title: The First Ground-Based Photometric Observations of GM Draconis
Authors: Çiçek, C.; Demircan, O.; Erdem, A.; Özdemir, S.; Bulut, I.; Soydugan, E.; Soydugan, F.; Keskin, V.
Journal: Information Bulletin on Variable Stars, 5144, 1.
Publication Date: 07/2001
Keywords:
ADS: [2001IBVS.5144....1C](#)
Abstract
Not Available

7.

Title: First Photometric Observations of MR Delphini
Authors: Soydugan, F.; Budding, E.; Demircan, O.; Erdem, A.; Çiçek, C.; Özdemir, S.; Bulut, I.; Soydugan, E.; Değirmenci, O. L.; Bozkurt, Z.; Yakut, K.; Esenoğlu, H.; Hegedus, T.; Borkovits, T.; Biro, I. B.
Journal: Information Bulletin on Variable Stars, 5153, 1.
Publication Date: 08/2001
Keywords:
ADS: [2001IBVS.5153....1S](#)
Abstract
Not Available

8.

Title: BVR Photometry of CW Cephei
Authors: Soydugan, E.; Demircan, O.; Keskin, V.; Erdem, A.; Cicek, C.; Ozdemir, S.; Bulut, I.; Soydugan, F.
Journal: Information Bulletin on Variable Stars, 5154, 1.
Publication Date: 08/2001
Keywords:
ADS: [2001IBVS.5154....1S](#)
Abstract
Not Available

9.

Title: Photoelectric Minimum Times of Two RS CVn Type Binary Systems: RT And and SV Cam
Authors: Ekmekci, F.; Ak, H.
Journal: Information Bulletin on Variable Stars, 5174, 1.
Publication Date: 09/2001
Keywords: minima times
ADS: [2001IBVS.5174....1E](#)
Abstract
We present six minima times of two RS CVn type binaries RT And and SV Cam

10.

Title: The First Ground-Based Photometric Observations of V401 Lacertae
Authors: Bulut, I.; Demircan, O.
Journal: Information Bulletin on Variable Stars, 5179, 1.
Publication Date: 09/2001
Keywords:
ADS: [2001IBVS.5179....1B](#)
Abstract
Not Available

11.

Title: Solar radius determinations obtained with the CCD astrolabe at TUBITAK National Observatory

Authors: Gölbaşı, O.; Chollet, F.; Kılıç, H.; Sinceac, V.; Aslan, Z.; Sözen, E.

Journal: Astronomy and Astrophysics, v.368, p.1077-1082.

Publication Date: 03/2001

Keywords: SUN: GENERAL, SUN: OSCILLATIONS, SUN: PHOTOSPHERE, ASTROMETRY, ATMOSPHERIC EFFECTS

ADS: [2001A&A...368.1077G](#)

Abstract

This paper measures the solar radius, using the new Tubitak National Observatory astrolabe as well as data acquisition and reduction procedures. The mean values of the solar radius obtained are slightly lower than the other results to which they are compared. We have compared our results with data obtained since 1981, and show that our results are very homogeneous. We hope to extend these measurements to obtain accurate determinations of solar position.

12.

Title: Preliminary Results of the Alignment and Hartmann Tests of the AZT-22 Telescope

Authors: Aslan, Z.; Bikmaev, I. F.; Vitrichenko, É. A.; Gumerov, R. I.; Dembo, L. A.; Kamus, S. F.; Keskin, V.; Kızıloğlu, U.; Pavlinsky, M. N.; Panteleev, L. N.; Sakhbullin, N. A.; Selam, S. O.; Sunyaev, R. A.; Khamitov, I.; Yaskovich, A. L.

Journal: AstronomLetters, vol. 27, p. 398-403.

Publication Date: 06/2001

Keywords: ASTRONOMICAL OBSERVING TECHNIQUES, INSTRUMENTATION

ADS: [2001AstL...27..398A](#)

Abstract

The AZT-22 telescope installed in Turkey (Antalia) was aligned and tested on stars by the Hartmann method. The rms normal deviation of an equivalent optical system is 0.040 +/- 0.016 micrometers. The circle of confusion is 0.40 +/- 0.04 arcsec in diameter at a 50% energy level.

Yurt Dışı Bildiriler

1.

Title: Results of the astronomical alignment and first observational programs at the telescope AZT-22 in Turkey

Authors: I.F., Bikmaev; Z., Aslan; R., Burenin; E.A., Vitrichenko; A., Vikhlinin; O., Gölbaşı; R.I., Gumerov; M.N., Pavlinsky; N.A., Sakhibullin; V.F., Suleimanov; R.A., Sunyaev; I., Khamitov; A.L., Yaskovich

Journal: Astrokazan 2001, Astronomy and geodesy in new millenium, September 24-29 2001

Publication Date: 09/2001

Keywords:

ADS:
Abstract
Not Available

2.

Title: Preliminary results of gravitational system observations at the TUBITAK National Observatory

Authors: I.Khamitov; Z. Aslan; I. Bikmaev; O. Golbasi; N. Sakhibullin; V. Vlasyuk

Journal: Astrokazan 2001, Astronomy and geodesy in new millenium, September 24-29 2001

Publication Date: 09/2001

Keywords:

ADS:
Abstract
Not Available

3.

Title: CCD astronomy and astrometry in Turkey
Authors: Z. Aslan; O. Gölbaşı; H. Kılıç; F. Chollet
Journal: MAO-180 International Conference, Extension and Connection of Reference Frames Using CCD Ground-based Technique, October, 10-13, Ukrayna, 2000
Publication Date: 00/2001
Keywords:
ADS:
Abstract, Not Available

4.

Title: A 440 square degrees serendipitous ROSAT PSPC cluster survey
Authors: R.A. Burenin; A.A.Vikhlinin; M.N.Pavlinsky; N.A.Sakhibullin; I.F. Bikmaev; Z.Aslan; I.Khamitov
Journal: MPA/ESO/MPE/USM Joint Astronomy Conference, "Lighthouses of the Universe: The Most Luminous Celestial Objects and their Use for Cosmology" s. 28, August 6-10,2001, Garching Germany.
Publication Date: 08/2001
Keywords:
ADS:
Abstract, Not Available

5.

Title: Refinement of linking optical/radio reference frames AstroKazan-2001
Authors: G.Pinigin; A.Shulga; N.V. Maigurova; Yu. Protsyuk; jin Wenjing; Tang Zhenghong; Wang Shuhe; F. Velichko; P. Federov; Flenko; I.Khamitov; Z.Aslan
Journal: Astronomy and geodesy in new millenium , September 24-29, 2001,Kazan, Rusya, s.272
Publication Date: 09/2001
Keywords:
ADS:
Abstract, Not Available

6.

Title: Development of Joint Project for Improvement of Link Between Optical and Radio Reference Coordinate Systems

Authors: G. Pinigin; A. Shulga; N. Maigurova; Yu. Protsyuk; J. Wenjing; T. Zhenghong; W. Shyhe; F. Velichko; P. Fedorov; R. Gumerov; Z. Aslan; I. Hamitov

Journal: Extension and Connection of Reference Frames using CCD ground-based Technique" Ekim 10-13, 2001, Nikolaev Ukrayna.

Publication Date: 10/2001

Keywords:

ADS:

Abstract, Not Available