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  
**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 TÜBİTAK 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


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

**Publication Date:** 06/2001

**Keywords:**

**ADS:** 2001IBVS.5129....1B

**Abstract**

Not Available
5. Photoelectric Observations of DR Vulpeculae
Title: Photoelectric Observations of DR Vulpeculae
Authors: Çiçek, C.
Publication Date: 07/2001
Keywords: 
ADS: 2001IBVS.5142....1C
Abstract Not Available

6. The First Ground-Based Photometric Observations of GM Draconis
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.
Publication Date: 07/2001
Keywords: 
ADS: 2001IBVS.5144....1C
Abstract Not Available

7. First Photometric Observations of MR Delphini
Title: First Photometric Observations of MR Delphini
Publication Date: 08/2001
Keywords: 
ADS: 2001IBVS.5153....1S
Abstract Not Available

8.
9.

Title: Photoelectric Minimum Times of Two RS CVn Type Binary Systems: RT And and SV Cam
Authors: Ekmekci, F.; Ak, H.
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.
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: Gölbasi, O.; Chollet, F.; Kilic, H.; Sinceac, V.; Aslan, Z.; Sozen, E.
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.

Title: Preliminary Results of the Alignment and Hartmann Tests of the AZT-22 Telescope
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
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
Publication Date: 09/2001
Keywords: ADS:
Abstract
Not Available

3.
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, Russia, 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


Publication Date: 10/2001

Keywords:

ADS: Abstract, Not Available