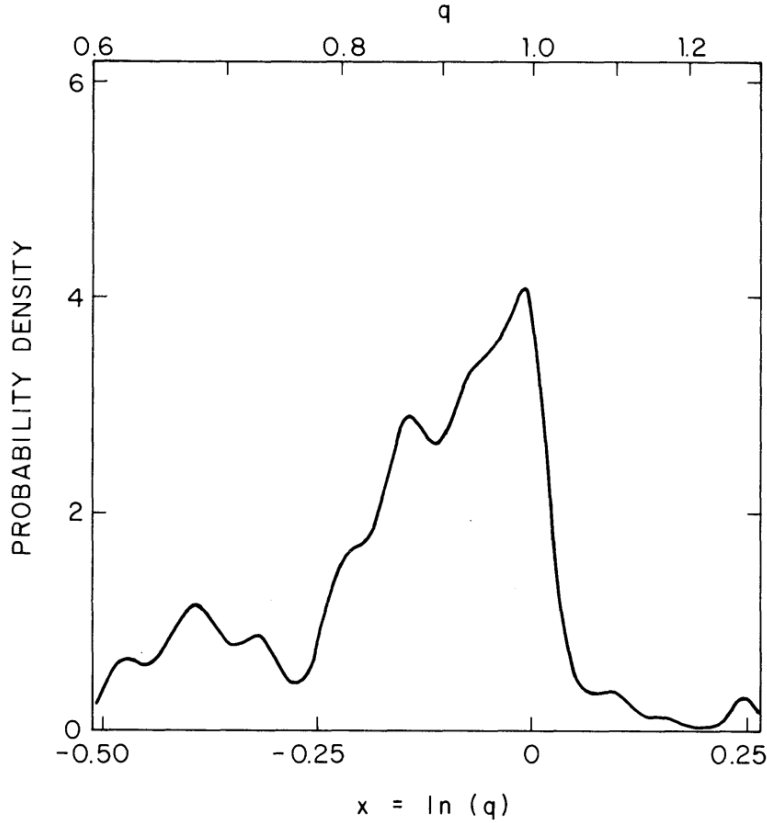


İKİZLERİN ASAS SAYIMI: I- FOTOMETRİK TARAMA

Doç.Dr. Volkan BAKIŞ

AKDENİZ ÜNİVERSİTESİ
UZAY BİLİMLERİ VE TEKNOLOJİLERİ BÖLÜMÜ
UZAY FİZİĞİ ANABİLİM DALI

Çift Yıldızların Kütle Oranı Dağılımı



Lucy & Ricco (1979)

Seçim Etkileri

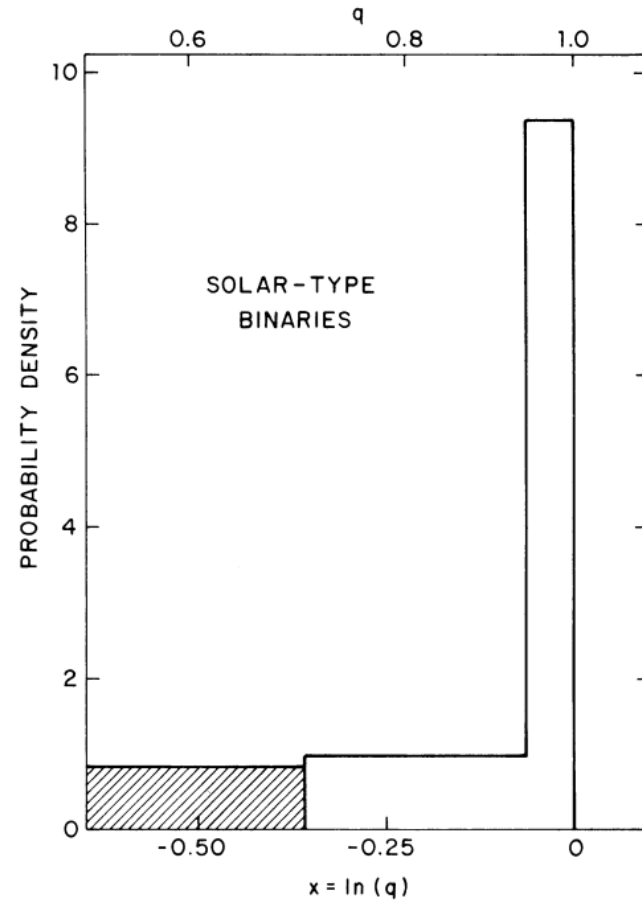
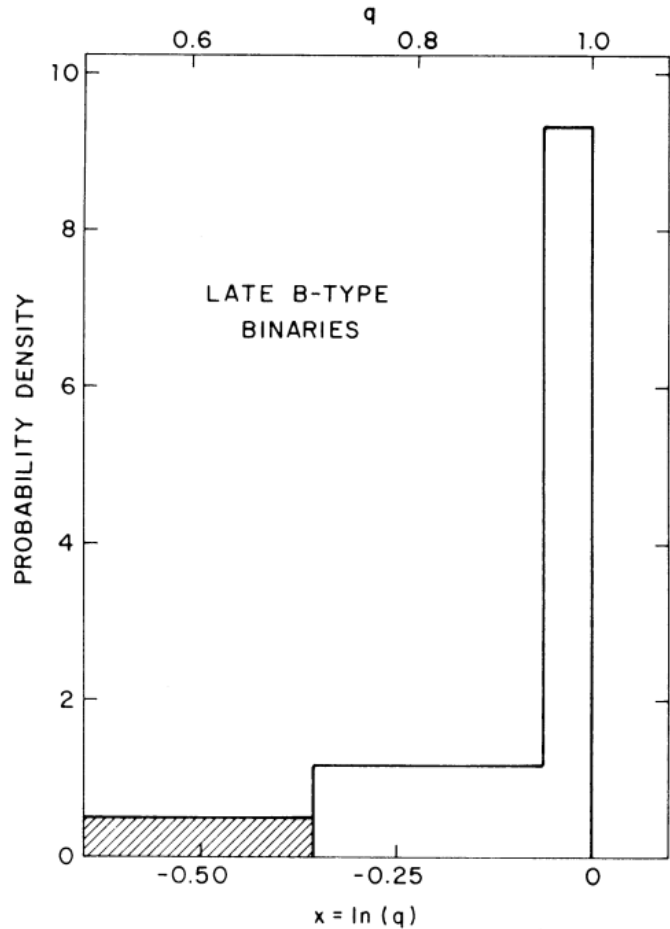
Yoldaşın tespiti

Çözünürlük

Yansıma etkisi

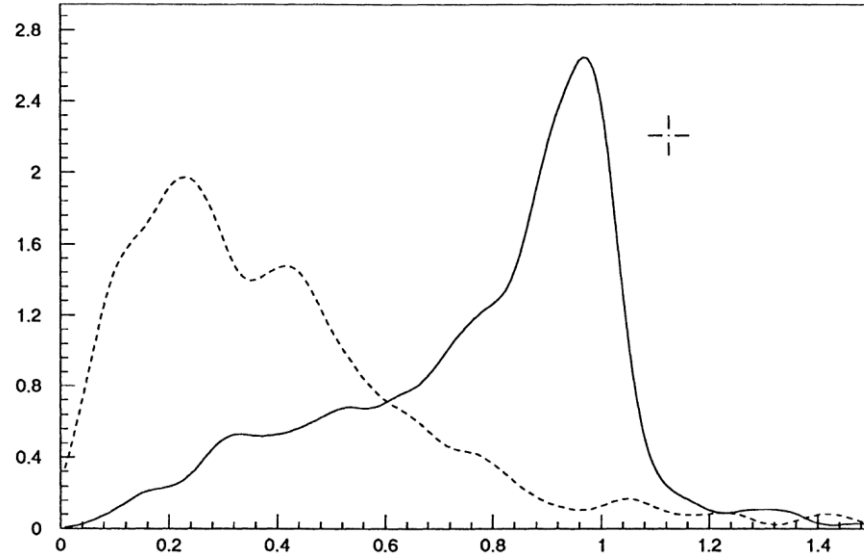
Uzaklık etkisi

Çift Yıldızların Kütle Oranı Dağılımı



Lucy & Ricco (1979)

Çift Yıldızların Kütle Oranı Dağılımı

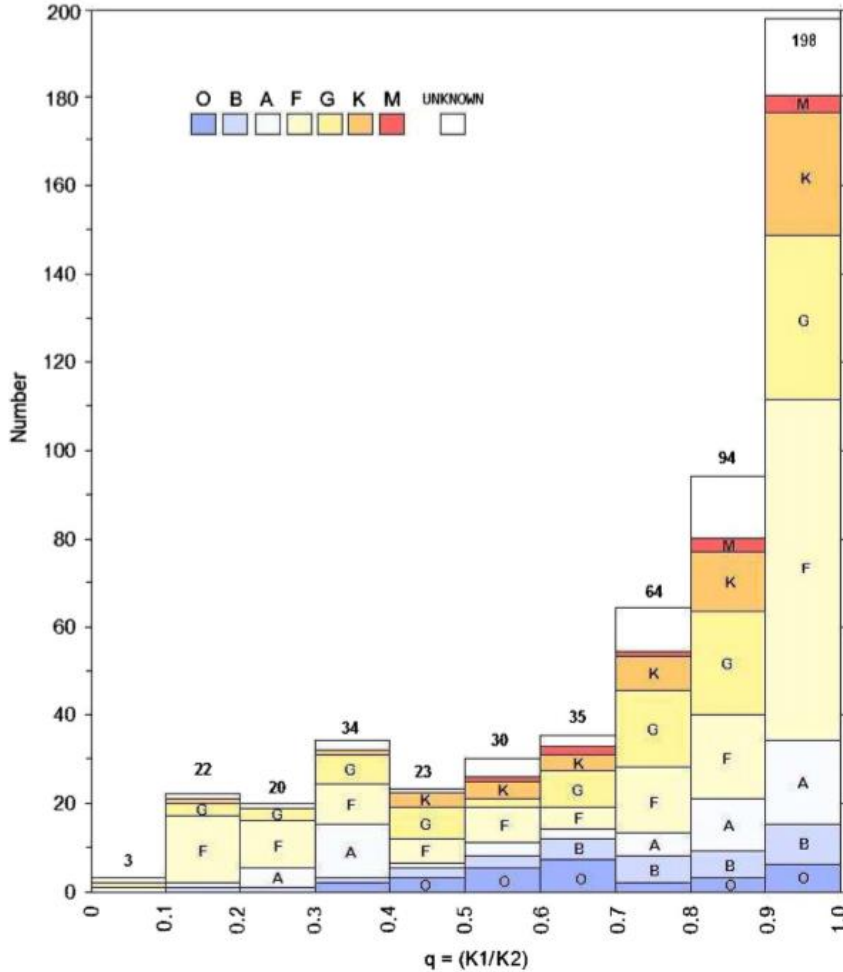


SB1: 655
SB2: 366

Hogeveen (1992)

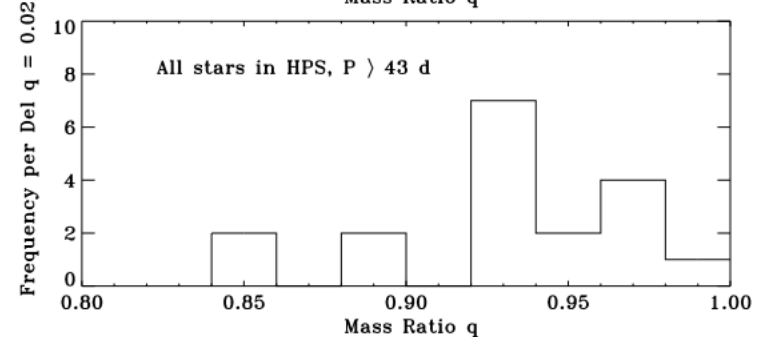
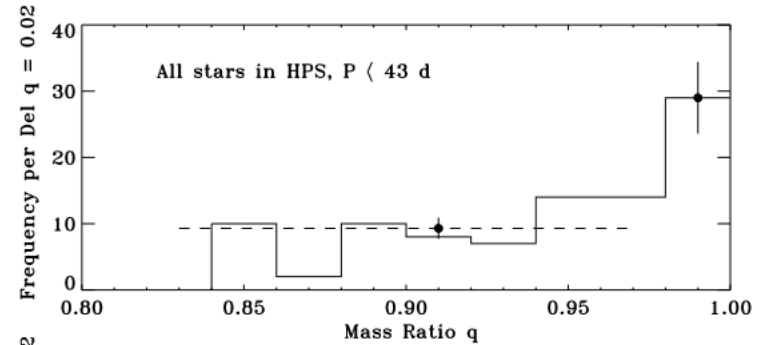
Tayfsal Dağılım

TWINS AMONG LOW-MASS SPECTROSCOPIC BINARIES

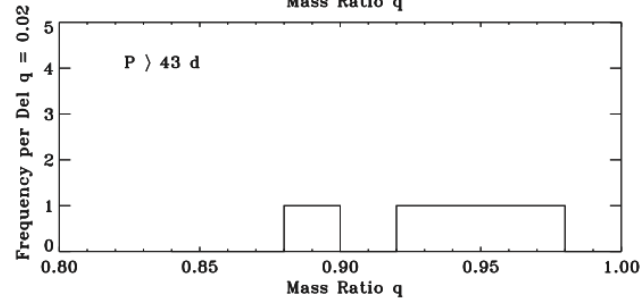
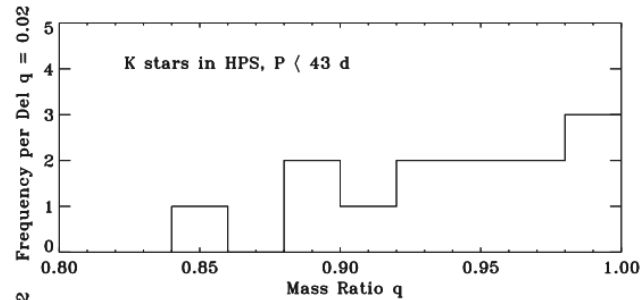
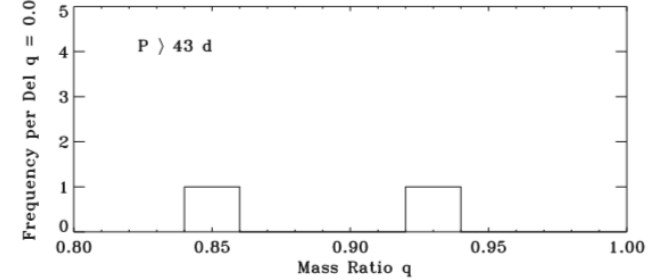
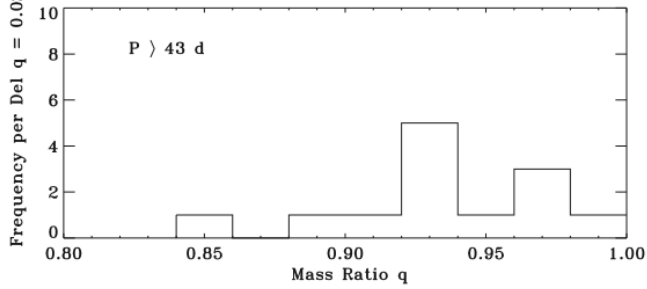
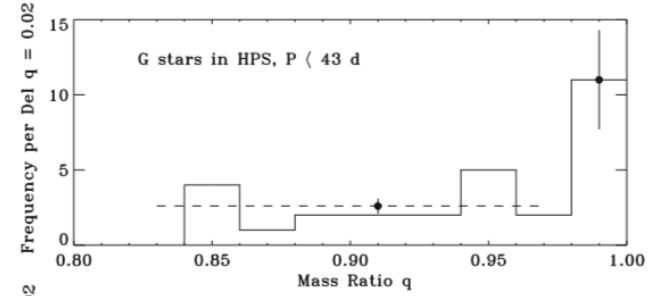
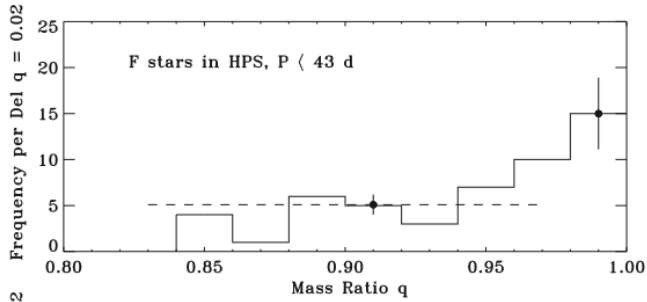


Simon ve Obbie (2009); ikiz ($0.98 < q < 1.0$) çift yıldız listesinde 1 O, 1 B, 3 A, 16 F, 11 G ve 3 K-türü yıldız vardır.

A yıldızı sayısı Bakış ve ark. (2013) 4'e, B yıldız sayısı Bakış ve ark. (2008) 2'ye ulaşmıştır.

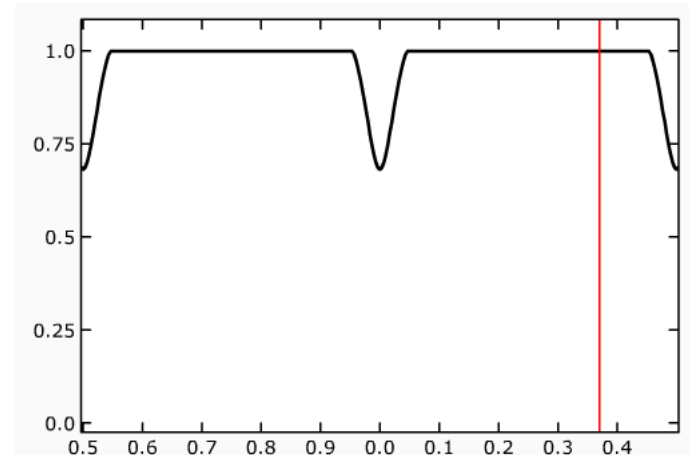
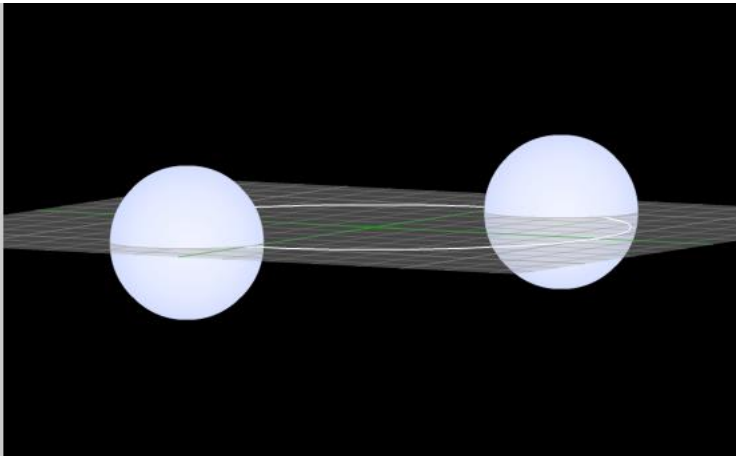


FGK TAYF TÜRLERİNİN DAĞILIMI



Yeni Veri Seti

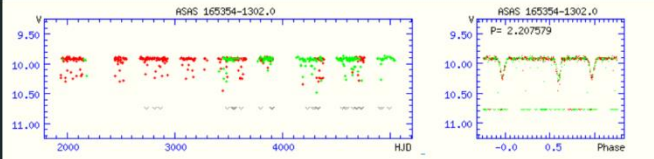
- Örten çift yıldızlar. Çünkü;
 - Algol (EA) türü sistemlerde aynı yarıçap, aynı sıcaklık özdeş bileşenlere işaret eder: Bu tür sistemlerdeki bileşenlerin aynı kütleli yıldızlardan oluşmasını bekleriz.



ASAS – All Sky Automated Survey Taraması

165354-1301.9

Back to: [ACVS](#) » [Star list](#) » 165354-1301.9



ASAS 165354-1301.9
Pe: 2.207579

Try period: 2.207579

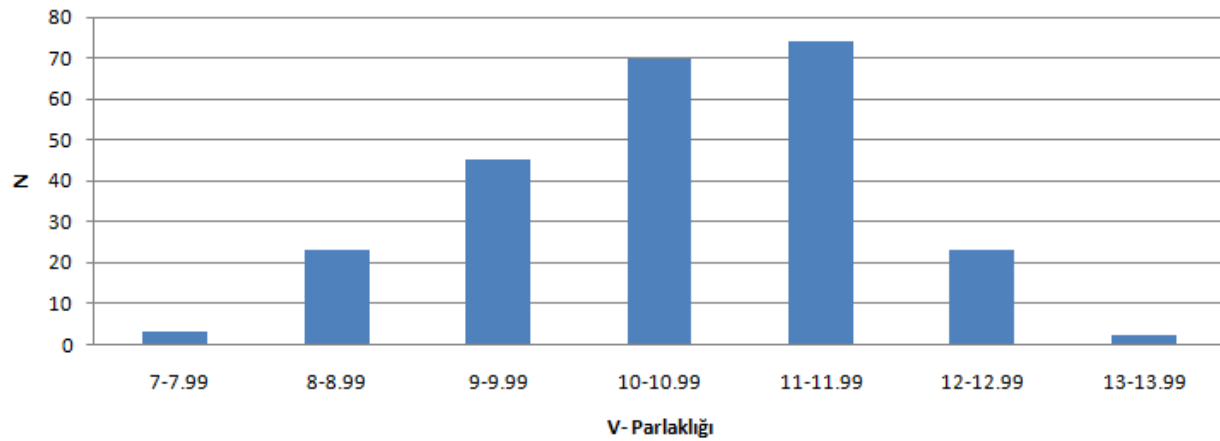
Field	Value	Units	Description
ID	165354-1301.9		ASAS identification (RA and DEC in the format: hhmmss+ddmm.m)
RA (2000)	16:53:53.9	[h:m:s]	Right ascension (FK5) Equinox=J2000
DEC (2000)	-13:01:54.0	[d:m:s]	Declination (FK5) Equinox=J2000
Period	2.207579	[days]	Period (or characteristic time scale of variation for irregular objects)
T ₀	2451937.8	[days]	Epoch of minimum (for eclipsing) or maximum (for pulsating) brightness
V max	9.84	[mag]	Magnitude in V at maximum brightness
V amp	0.37	[mag]	Amplitude of variation in V
I max	-	[mag]	Magnitude in I at maximum brightness
I amp	-	[mag]	Amplitude of variation in I
Class	ED		Type of variability in ASAS classification

~11064 EA türü ışık eğrisi

473 ikiz adayı

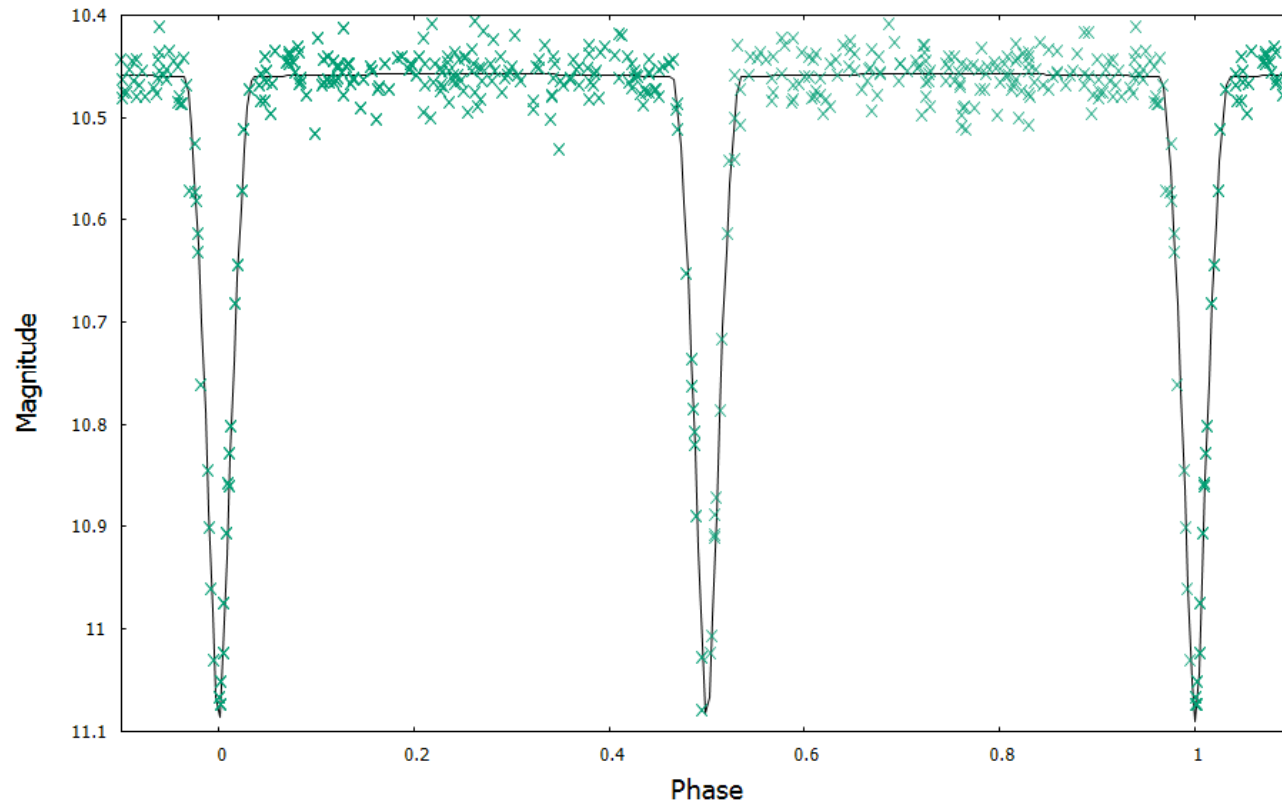
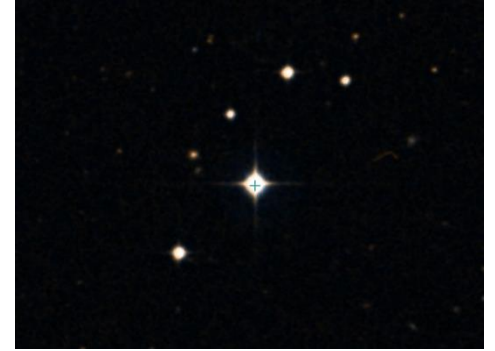
240 Kuzey yarım küreden gözlenebilen

ASAS İkiz Çift Yıldız Adaylarının Parlaklık Dağılımı



ASAS-6

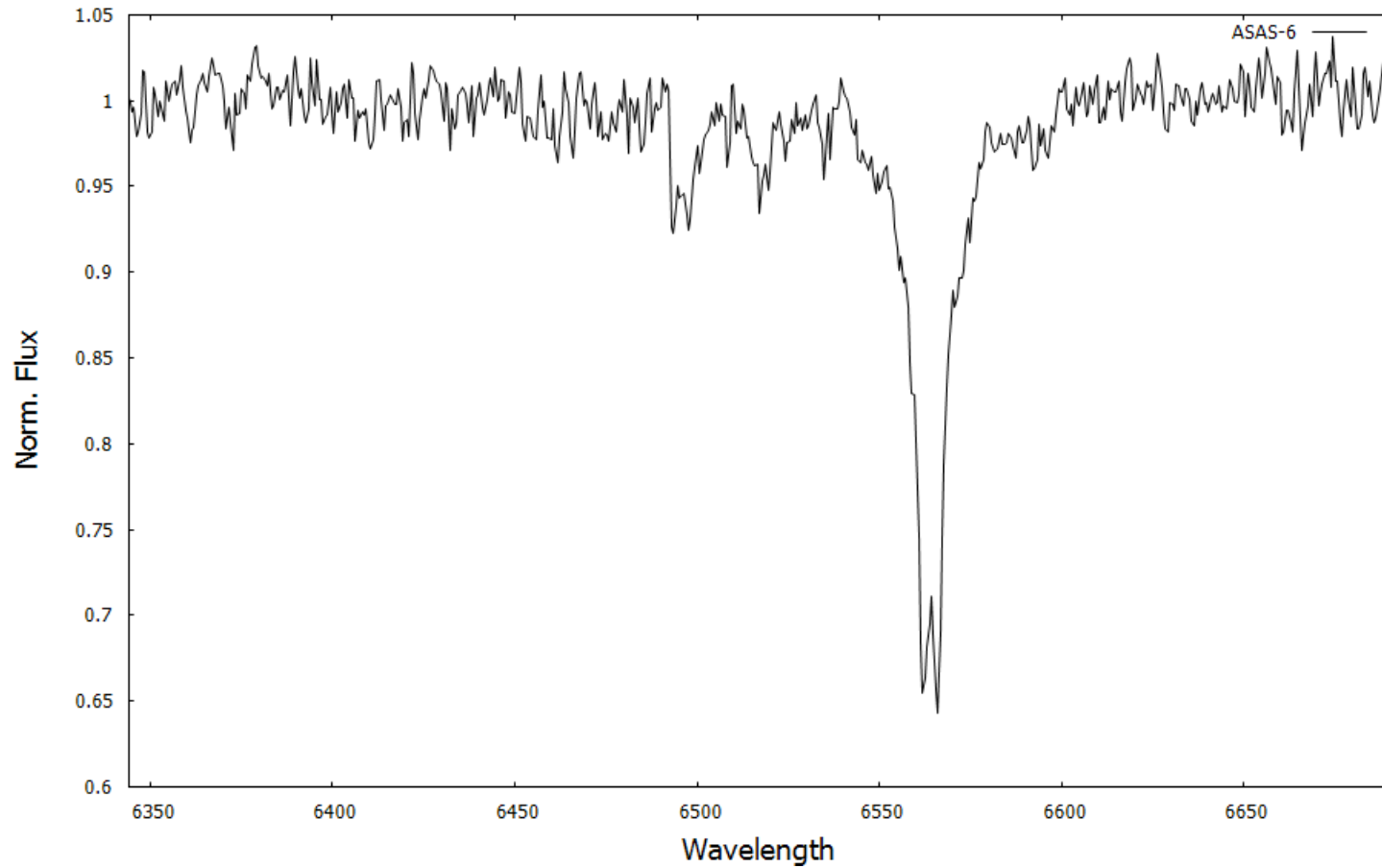
- HS Cet, $V=10^m.63$, $P=3.69$ gün



- $T_1/T_2 = 1.00$
- $r_1/r_2 = 1.00$

ASAS-6

- TUG TFOSC echelle H α bölgesi.



Yarıçap ve Sıcaklığa göre ikizlerin belirlenmesi

$0.95 < r_1/r_2 < 1.05$ & $0.95 < T_1/T_2 < 1.05$ sağlayan

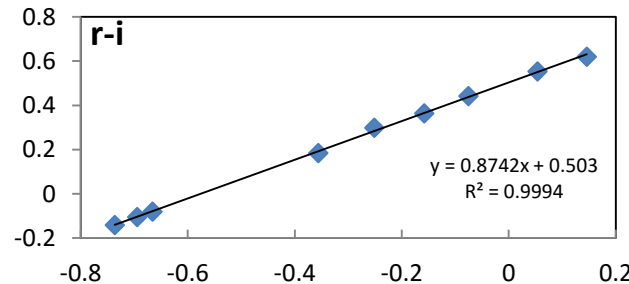
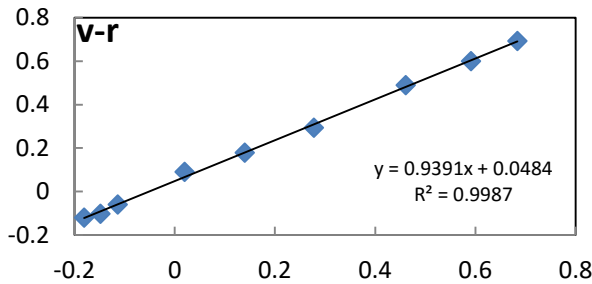
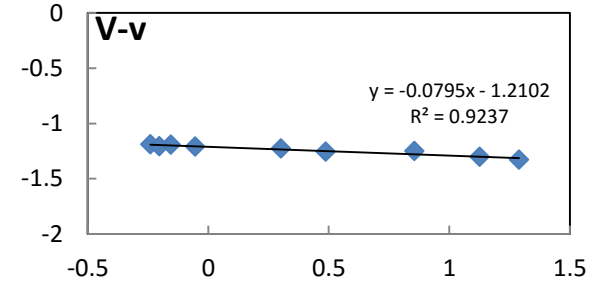
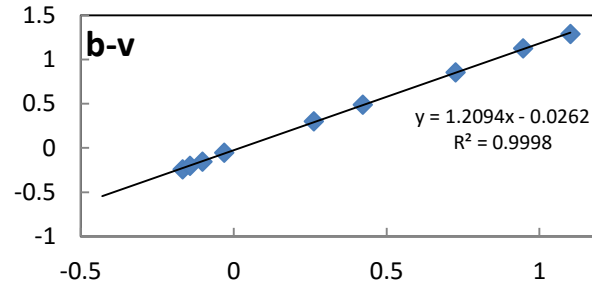
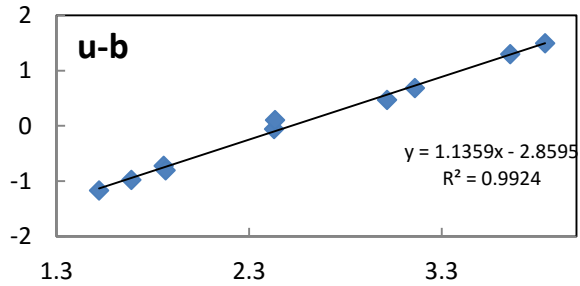
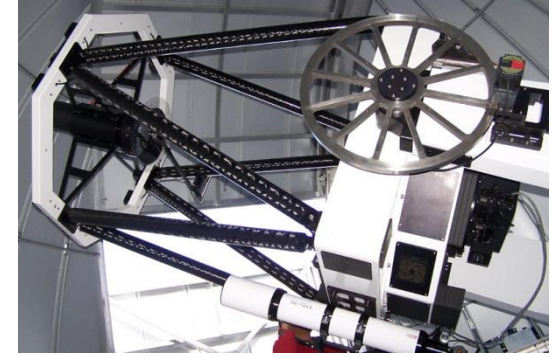
76/240,

$0.97 < r_1/r_2 < 1.03$ & $0.97 < T_1/T_2 < 1.03$ sağlayan

16/76 ikiz belirlendi.

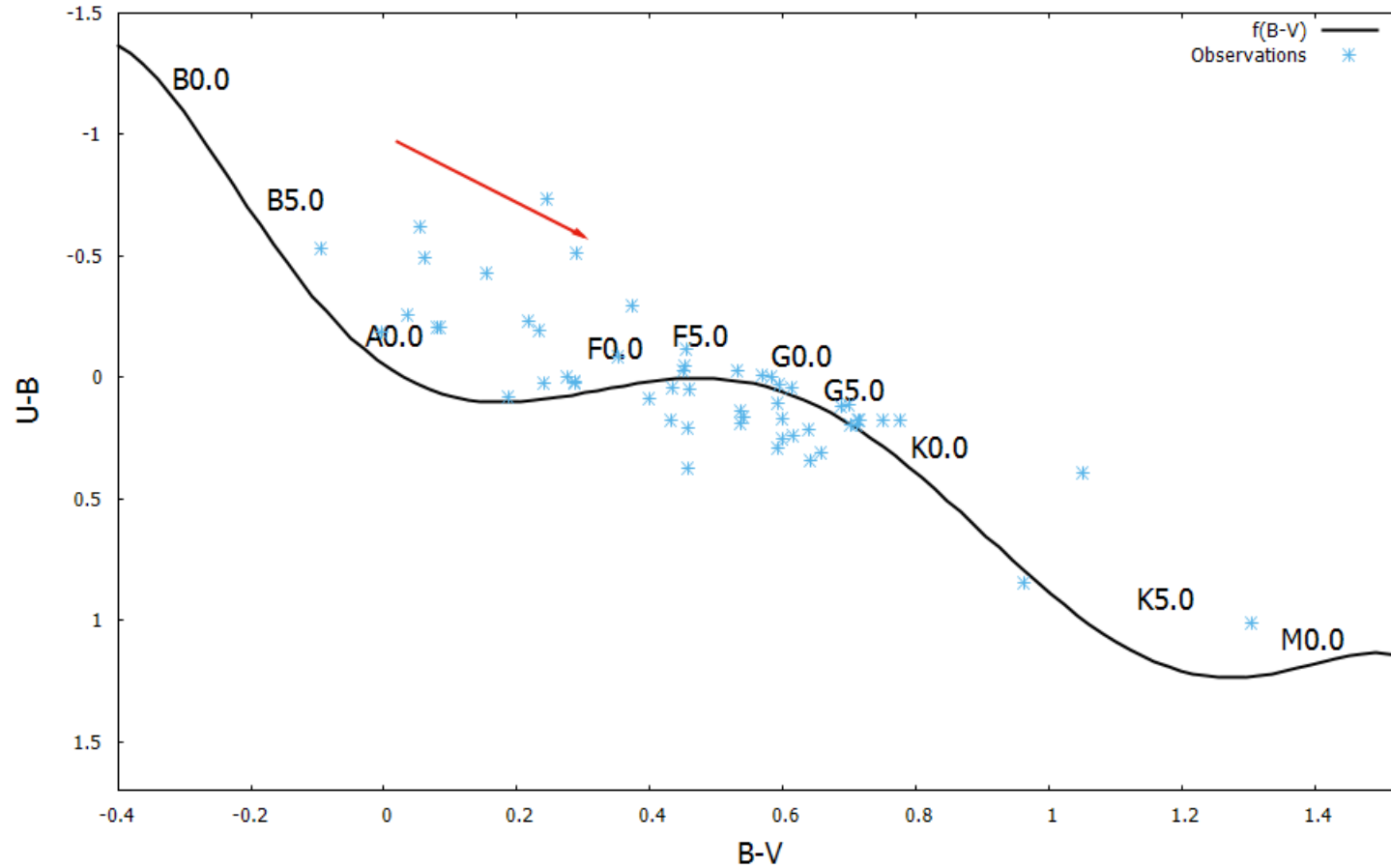
Gözlemler

- TUG T100
 - Toplamda 13 gece, standart ve ikiz adayları UBVRi filtrelerinde gözlemlendi.

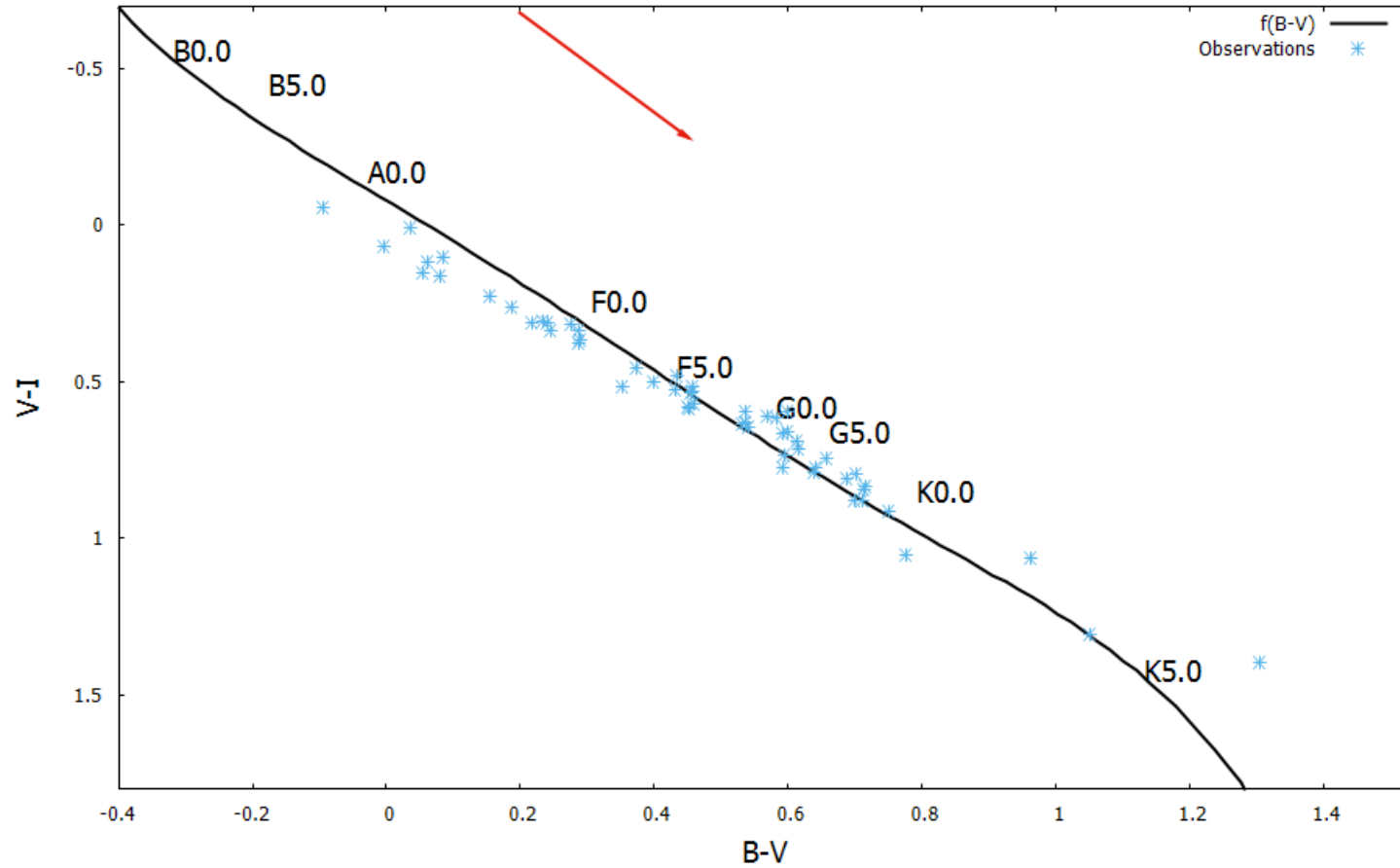


- AÜ UBT60, 2 gece

Renk-Renk Grafiği

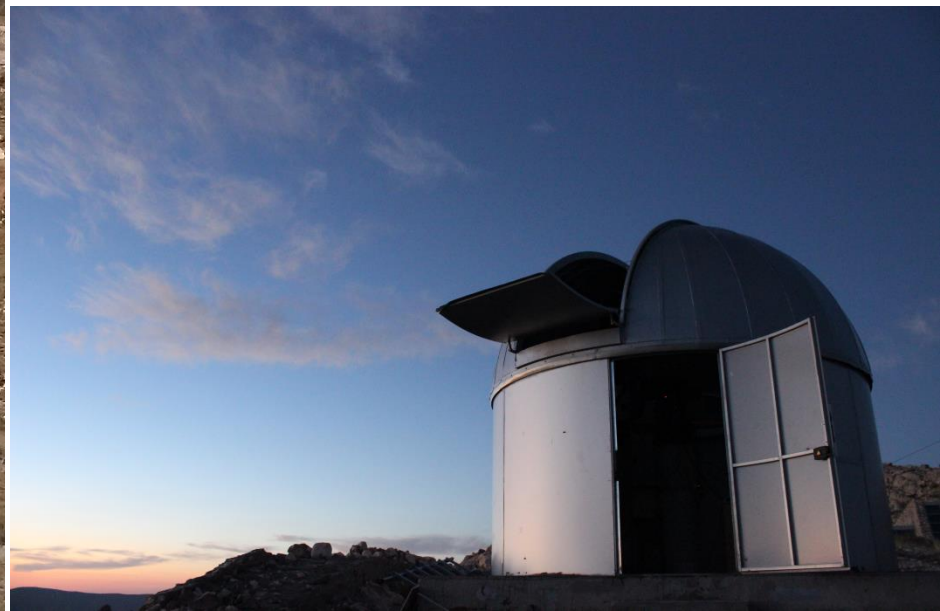


Renk-Renk Grafiği



AÜ UBT60

Yer: TÜBİTAK Ulusal Gözlemevi, Saklıkent, Antalya, Rakım: 2500 m



AÜ UBT60

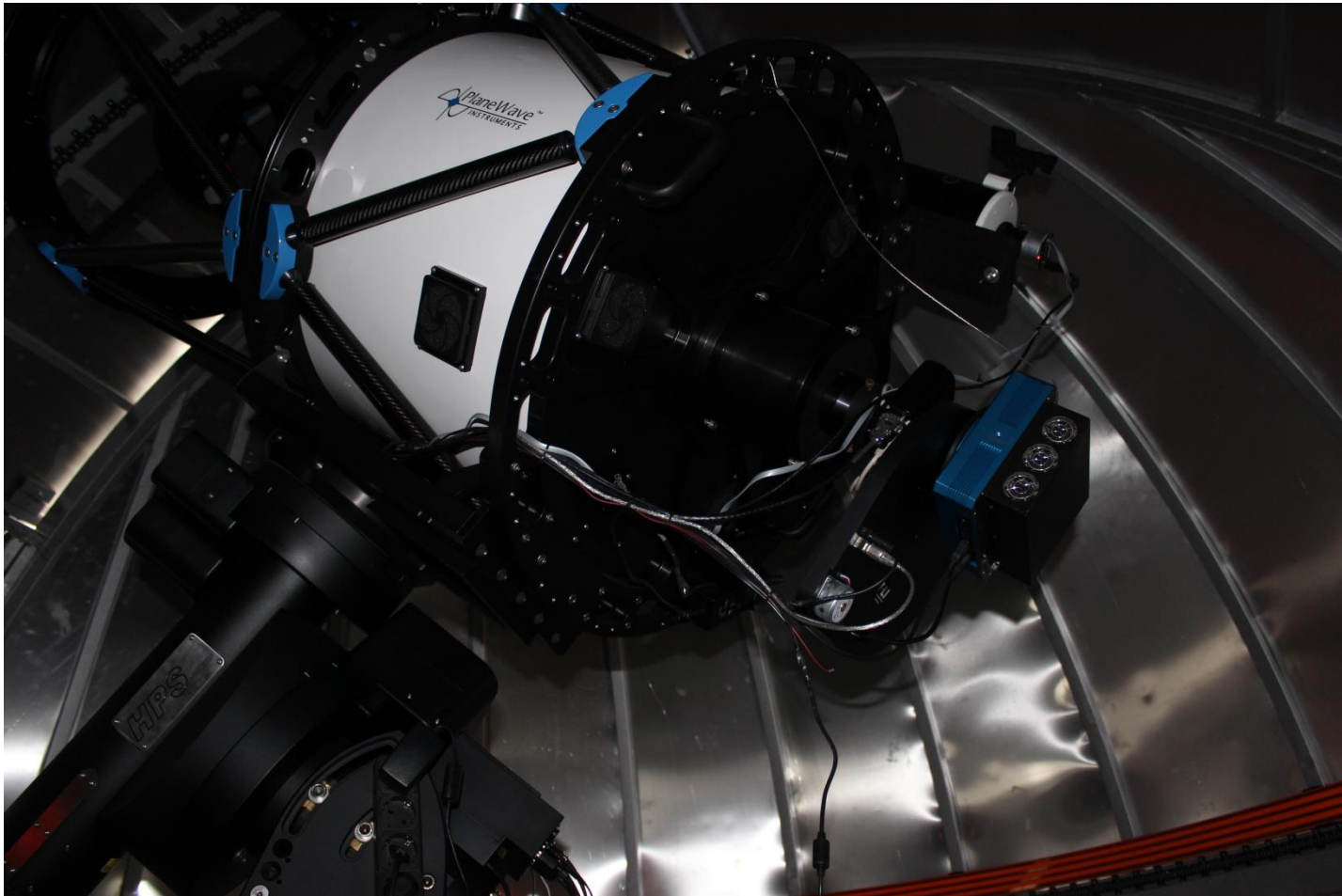
Teleskop: 61-cm CDK, Kundak: GM-4000 HPS



AÜ UBT60

Kamera: Alta U47 (QE~96 @ 5500 Angström)

Filtreler: Johnson UBVRi, ugriz, LRGB





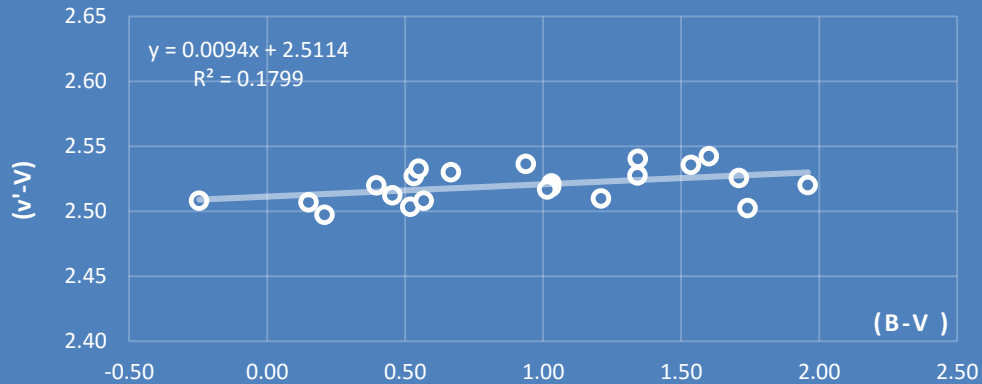
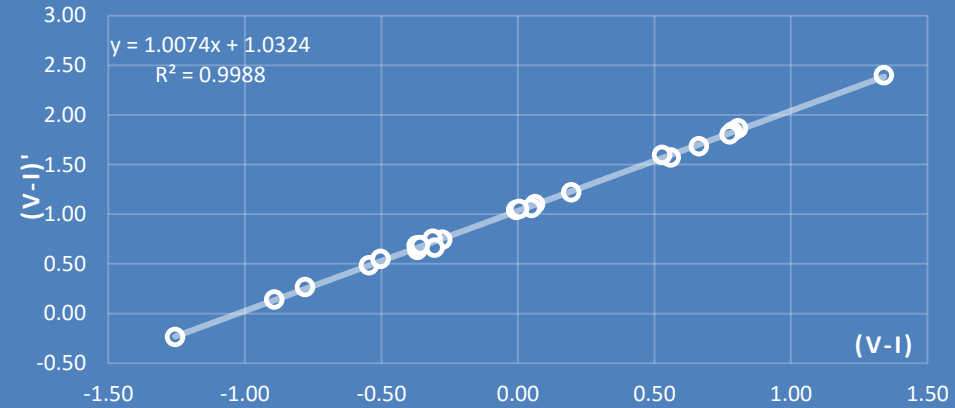
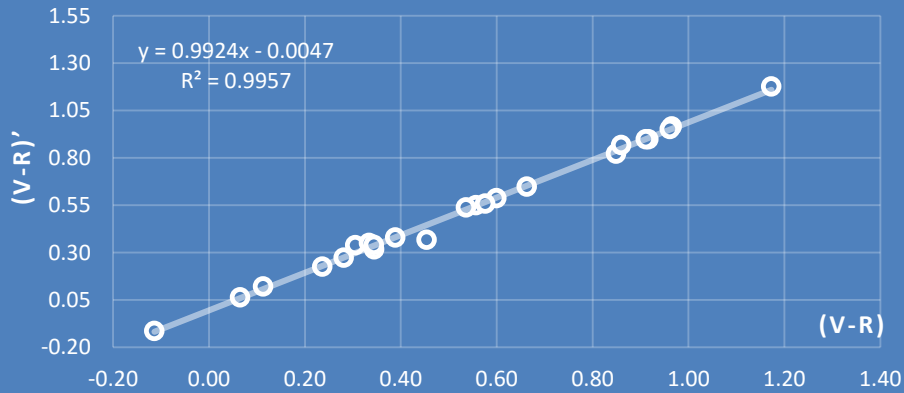
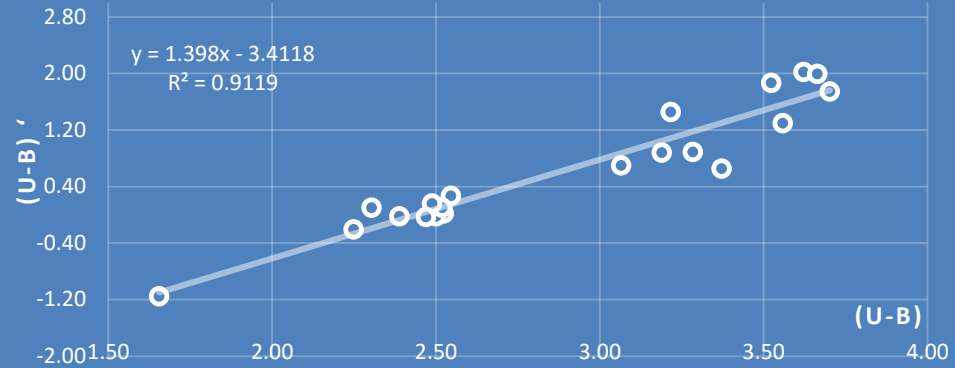
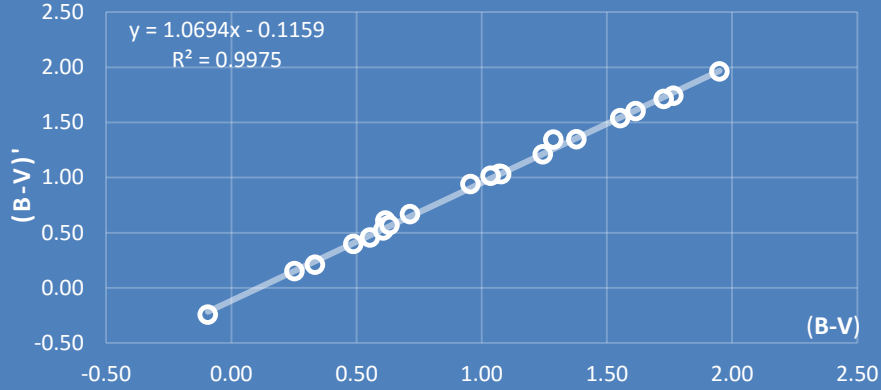
Halter Bulutsusu

Akdeniz Üniversitesi - UBT60



Üçgen Galaksisi
Akdeniz Üniversitesi - UBT60

UBT60 Standartları

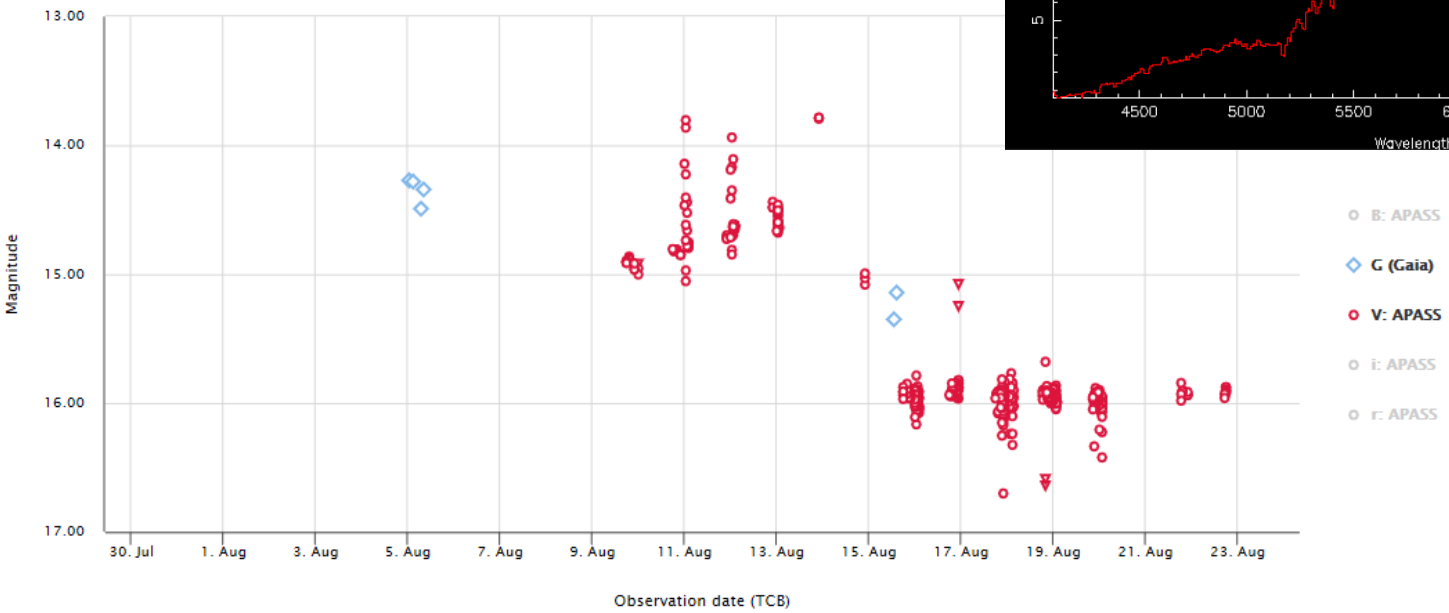
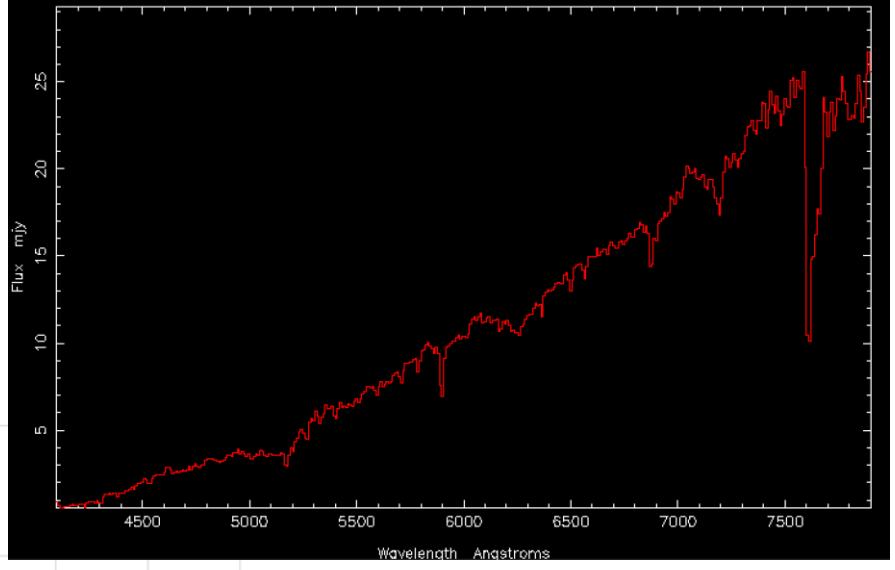




[[Previous](#)]

Gaia16aye: a flaring object of uncertain nature in Cygnus

ATel #9376; *V. Bakis (Akdeniz Univ.), U. Burgaz (Ege Univ.), T. Butterley (Durham Univ.), J. M. Carrasco (Institut de Ciencies del Cosmos-Univ. of Barcelona), V. S. Dhillon (Univ. of Sheffield), M. Dominik (Univ. St Andrews), A. Floers (INAF OAPd), L. K. Hardy (Univ. of Sheffield), G. Leto (INAF OACT), S. P. Littlefair (Univ. of Sheffield), J. R. Maund (Univ. of Sheffield), P. Ochner (INAF OAPd), A. Pastorello (INAF OAPd), A. Piascik (Liverpool JMU), L. Rhodes (Univ. of Sheffield), R. Z. Sanchez (INAF OACT), K. V. Sokolovsky (LAASARS NOA/SAI/ASC Lebedev), I. Steele (Liverpool JMU), S. Taubenberger (ESO), G. Terreran (INAF OAPd), L. Tomasella (INAF OAPd), R. W. Wilson (Durham Univ.), L. Wyrzykowski (Warsaw Univ. Astronomical Obs.), A. M. Zubareva (INASAN/SAI)*
 on 15 Aug 2016; 20:40 UT
 Credential Certification: Kirill Sokolovsky (kirx@scan.sai.msu.ru)



Teşekkürler...