



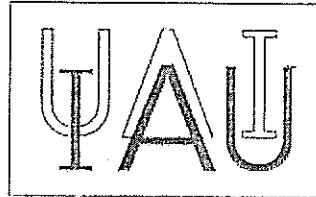
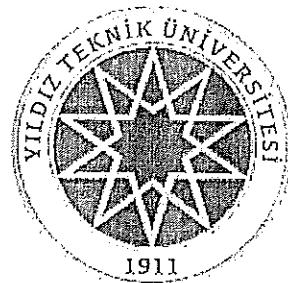
*8<sup>th</sup> International  
Workshop on  
Occultation and  
Eclipse*  
*1-2 March 2018,  
ISTANBUL,  
TURKEY*  
<https://iota-me.com/oe.php>



## Workshop Book

**8<sup>th</sup> International Workshop on  
Occultation and Eclipse  
(IWOE-8)**

**1-2 March 2018  
ISTANBUL, TURKEY**



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# Agenda – March 1, 2018

## Opening Session

9:00-10:00 Registration  
10:00-10:10 Opening Remarks

## Session: Exoplanets, Planetary Science, Variable Stars (1)

Chairman: Mehmet Emin Özel

10:10-10:40 Wolfgang Kundt (GW 170817, and its six forerunners: Signals emitted by merging binary neutron stars, if correctly evaluated)  
10:40-11:00 Özgür Baştürk (5 Years of Defocused Observations of Exoplanet Transits with T100: Timing Perspective)  
11:00-11:20 S. Mohammad Jamil Enayati (ON THE SOLAR CORONAL HEAT PROBLEM)  
11:20-11:40 Evrim KIRAN (SPECTROSCOPIC OBSERVATIONS OF ECLIPSING BINARY SYSTEM OT AND)  
11:40-12:00 Coffee Break  
12:00-12:20 Tuğçe İçli (Eclipsing LMXB system PSR J1023+0038)  
12:20-12:40 Mahan KHAZRAEI (How can we have light curve of variable stars)  
12:40-13:00 İlham NASIROGLU (Minima Timing of some close binary systems)  
13:00-14:30 Lunch time

## Session: TNOs, Asteroids, Comets, Occultation, Moon

Chairman: S. Mohammad Jamil Enayati

14:30-14:50 Wojciech Burzynski (THE HISTORY OF OCCULTATION OBSERVATIONS IN POLAND)  
14:50-15:10 Eberhard Riedel (The GRAZPREP-software –purpose and features)  
15:10-15:30 Djounai BABA AISSA (OCCULTATION OF THE STAR UCAC4 410-143659 BY TRITON ON OCTOBER 5th 2017 FROM ALGIERS OBSERVATORY (CRAAG))  
15:30-15:50 David Dunhum (IMPROVING ASTEROIDAL OCCULTATION PREDICTIONS USING RECENT PAST OCCULTATIONS BY THE SAME OBJECT)  
15:50-16:10 Coffee Break

## Session: Observation process, Spectroscopy

Chairman: MURAT HUDAVERDI

16:10-16:40 Koorosh Rokni (Application of Optical Aberrations in MEADE LX200 Telescope Calibration via the Curvature Sensing Method)  
16:40-17:00 Sara Momeni Mokoei (Optimizing the Surface Shape Coefficients of an Aspheric lens in Schmit Camera Setup to Balance the Aberration Elimination Capability and Manufacturing Feasibility)  
17:00-19:00 Poster Session (1) with welcome party

## Agenda – March 2, 2018

### Session: Exoplanets, Planetary Science, Variable Stars (2)

Chairman: Wolfgang Kundt

10:10-10:40 Osman Demircan (EVOLUTION OF THE PHYSICAL ELEMENTS OF V1309 SCO JUST BEFORE ERUPTION)

10:40-11:00 Ferhat Fikri ÖZEREN (CONTRIBUTION OF TÜBİTAK NATIONAL OBSERVATORY to ECLIPSING and OCCULTATION WORKS in TURKEY)

11:00-11:20 Derviş Ersin TOKBAY (Light Curve Analysis of the Eclipsing Binary System KIC 9489411)

11:20-11:40 İbrahim AKÖZ (An eclipsing Wolf-Rayet binary system: WR 155)

11:40-12:00 Coffee Break

12:00-12:20 Ahmet BULUT (ABSOLUTE DIMENSIONS OF CONTACT BINARY SYSTEM GSC 1042-2191)

12:20-12:40 Dolunay Koçak (Multi-color optical variability of the eclipsing X-ray binary system SS433)

12:40-13:00 Soleiman Hosseinpour (SOME APPLICATIONS OF FRACTIONAL CALCULUS IN ASTRONOMY)

13:00-14:30 Lunch time

### Session+: High Energy Astrophysics, Astrobiology

Chairman: Atıla Poro

14:30-14:50 Fatemeh Montazeri Najafabadi (Investigating the effect of obliquity and eccentricity of earthlike planet on their habitability)

14:50-15:10 Suzan Dogan (BREAKING A WARPED DISC)

15:10-15:30 MURAT HUDAVERDI (DECAYING DARK MATTER FROM X-RAY OBSERVATIONS)

15:30-15:50 Muhammed Kiyami Erdim (MERGER SIGNATURES IN THE GALAXY CLUSTERS)

15:50-16:10 Coffee Break

16:10-16:40 Wolfgang Kundt (Habitable Planets In our MilkyWay Galaxy)

16:40-17:10 Mehmet Emin Özal (Fermi's Paradox and Mathematical Theory of Rumours: A Possible New Solution)

17:10-18:00 Poster Session (2) and Workshop End

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## **GAIA14AAE – A Cataclysmic Variable Star with Deep Eclipses**

**Almaz Galeev(1), Hasan Esenoglu(2), Hulusi Gulsecen(3), Niyaz Nuryev(4), Evgeny Nikolaeva(5)**

(1)V.P. Engelgardt Astronomical observatory, Kazan Federal University, Kazan, Russia

(1)Email: Almaz.Galeev2 @kpfu.ru

(2,3)Department of Astronomy and Space Sciences, Faculty of Science, Istanbul University, Istanbul, Turkey

(4)Kazan Federal University, Kazan, Russia

(5)Department of Astronomy and Space Geodesy, Kazan Federal University, Kazan, Russia

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### **POSTER**

#### **Abstract**

This work the study of a new cataclysmic variable star GAIA14aae related to the stars of the type AM CVn are presented. Photometric observations of this star obtained in 2016-2017 at the telescopes RTT-150, T-100 and T-60 of the National Observatory TUBITAK. According to 10 nights of observations at the telescope RTT-150 and T-100, the value of orbital period of 49.7 minutes updated and a phase light curve with deep eclipses of more than 2.5 mag are received. The light curve and the analysis of spectra of this star, obtained with the TFOSC instrument telescope RTT-150 allows to identify the GAIA14aae as a eclipsing polar. Also according to the observations at the telescope T-60 the stellar BVR magnitudes are refined. We thank to TUBITAK, KFU and AST for partial supports in using RTT150 (Russian-Turkish 1.5-m telescope in Antalya).