

Assoc. Prof. HASAN AK

Personal Information

Office Phone: [+90 352 437 4931](tel:+903524374931) Extension: 33257

Email: hasanak@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/hasanak/>

International Researcher IDs

ORCID: 0000-0001-9385-5005

Yoksis Researcher ID: 127746

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri, Turkey 1998 - 2005

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri, Turkey 1994 - 1998

Undergraduate, Ankara University, Fen Fakültesi, Astronomi Ve Uzay Bilimleri, Turkey 1988 - 1993

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Be tayf türünden etkileşen çift yıldız Beta Lyrae'nin tayfsal analizi, Ankara University, Institute Of Science, --, 2005

Postgraduate, BÜYÜK KÜTLELİ ETKİLEŞEN ÇİFT YILDIZLAR, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri, 1998

Research Areas

Basic Sciences, Physics, Astronomy and Astrophysics, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Star Systems, Interstellar Medium, The Galaxy, Galactic and Extragalactic Objects and Systems, Cosmology, Stars

Academic Titles / Tasks

Assistant Professor, Erciyes University, Fen Fakültesi, Astronomi ve Uzay Bilimleri, 2018 - Continues

Assistant Professor, Erciyes University, Fen Fakültesi, Astronomi ve Uzay Bilimleri, 2006 - 2018

Other, Pennsylvania State University, Fen Fakültesi, Astronomi Ve Astrofizik, 2011 - 2014

Research Assistant, --Seçiniz--, Ondrejov Gözlemevi, Astronomi, 2003 - 2003

Research Assistant, Ankara University, Fen Fakültesi, Astronomi Ve Uzay Bilimleri, 1994 - 2003

Research Assistant, --Seçiniz--, Ondrejov Gözlemevi, Astronomi, 1997 - 1997

Academic and Administrative Experience

Erciyes University, 2007 - 2010

Head of Department, Erciyes University, Fen Fakültesi, Astronomi ve Uzay Bilimleri, 2006 - 2010

Erciyes University, 2006 - 2010

Erciyes Üniversitesi, Fen Fakültesi, Astronomi ve Uzay Bilimleri, 2006 - 2008

Courses

Uzmanlık Alan Dersi II, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Tayfsal Analiz, Postgraduate, 2019 - 2020, 2018 - 2019

Astronomide Gözlem Araç ve Yöntemleri, Undergraduate, 2019 - 2020

Gök Mekaniği, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Tez Çalışması, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Bitirme Tezi II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Tayfbilime Giriş, Undergraduate, 2018 - 2019

Astronomiye Giriş II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Araştırma Metodları ve Yayın Etiği, Doctorate, 2019 - 2020

Uzmanlık Alan Dersi I, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Astronomide Görüntü İşleme I, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Küresel Astronomi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Bitirme Tezi I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Uzay Ortamı, Undergraduate, 2019 - 2020

Yıldız Fotometrisi I, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Seminer, Doctorate, 2017 - 2018

Astronomiye Giriş I, Undergraduate, 2018 - 2019, 2017 - 2018

Yüksek Enerji Astrofiziği, Doctorate, 2017 - 2018

Astronomide Görüntü İşleme II, Postgraduate, 2017 - 2018

Advising Theses

Ak H., XMM-Newton arşiv verileri kullanılarak yakın galaksilerdeki X-ışın kaynaklarının araştırılması, Postgraduate, Ş.KAYACI(Student), 2011

Ak H., O-B türü örten çift yıldızların uzun zamanlı ışık eğrilerinden 3. bileşen taraması, Postgraduate, A.AVCI(Student), 2010

Jury Memberships

Post Graduate, Post Graduate, Erciyes Üniversitesi, November, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2017

Taught Courses And Trainings

Ak H., Bilim ve Sanat Merkezleri Fizik Öğretmenleri Astronomi Eğitimi ve Uygulamaları, 2017 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

1. Long-term, orbital, and rapid variations of the Be star V923 Aql = HD 183656

Wolf M., Harmanec P., Bozic H., Koubsky P., Yang S., Ruzdjak D., Slechta M., Ak H., Bakis H., Bakis V., et al.
ASTRONOMY & ASTROPHYSICS, vol.647, 2021 (SCI-Expanded)

- II. **The SDSS-HET Survey of Kepler Eclipsing Binaries. Description of the Survey and First Results**
Mahadevan S., Bender C. F., Hambleton K., Fleming S. W., Deshpande R., Conroy K., Matijevic G., Hebb L., Roy A., Ak H., et al.
ASTROPHYSICAL JOURNAL, vol.884, no.2, 2019 (SCI-Expanded)
- III. **THE APOGEE SPECTROSCOPIC SURVEY OF KEPLER PLANET HOSTS: FEASIBILITY, EFFICIENCY, AND FIRST RESULTS**
FLEMING S. W., MAHADEVAN S., DESHPANDE R., BENDER C. F., TERRIEN R. C., MARCHWINSKI R. C., Wang J., ROY A., Stassun K. G., ALLENDE PRIETO C., et al.
ASTRONOMICAL JOURNAL, vol.149, no.4, 2015 (SCI-Expanded)
- IV. **KIC 3858884: a hybrid delta Scuti pulsator in a highly eccentric eclipsing binary**
Maceroni C., Lehmann H., da Silva R., Montalban J., Lee C. -, AK H., Deshpande R., YAKUT K., Debosscher J., Guo Z., et al.
ASTRONOMY & ASTROPHYSICS, vol.563, 2014 (SCI-Expanded)
- V. **V2368 Ophiuchi: an eclipsing and double-lined spectroscopic binary used as a photometric comparison star for U Ophiuchi**
Harmanec P., Bozic H., MAYER P., Eenens P., BROZ M., Wolf M., Yang S., Slechta M., Ruzdjak D., Sudar D., et al.
ASTRONOMY & ASTROPHYSICS, vol.531, 2011 (SCI-Expanded)
- VI. **HD 143418: an unusual light variable and a double-lined spectroscopic binary with a CP primary**
Bozic H., Wolf M., Harmanec P., Prsa A., Percy J. R., Ruzdjak D., Sudar D., Slechta M., Ak H., Eenens P.
ASTRONOMY & ASTROPHYSICS, vol.464, no.1, pp.263-275, 2007 (SCI-Expanded)
- VII. **New findings supporting the presence of a thick disc and bipolar jets in the beta Lyrae system**
Ak H., CHADIMA P., Harmanec P., DEMIRCAN O., Yang S., KOUBSKY P., SKODA P., Slechta M., Wolf M., Bozic H., et al.
ASTRONOMY & ASTROPHYSICS, vol.463, no.1, pp.233-241, 2007 (SCI-Expanded)
- VIII. **Properties and nature of Be stars - XXIII. Long-term variations and physical properties of x Dra**
SAAD S., KUBAT J., KOUBSKY P., HARMANEC P., SKODA P., KORCAKOVA D., KRTICKA J., SLECHTA M., BOZIC H., AK H., et al.
ASTRONOMY & ASTROPHYSICS, vol.419, no.2, pp.607-621, 2004 (SCI-Expanded)
- IX. **Search for forced oscillations in binaries - IV. The eclipsing binary V436 Per revisited**
JANIK J., HARMANEC P., LEHMANN H., YANG S., BOZIC H., AK H., HADRAVA P., EENENS P., RUZDJAK D., SUDAR D., et al.
ASTRONOMY & ASTROPHYSICS, vol.408, no.2, pp.611-619, 2003 (SCI-Expanded)
- X. **Refinement of third body parameters and new photometric results for the early-type multiple system IU Aurigae**
OZDEMIR S., MAYER P., DRECHSEL H., DEMIRCAN O., AK H.
ASTRONOMY & ASTROPHYSICS, vol.403, no.2, pp.675-681, 2003 (SCI-Expanded)
- XI. **Chromospherically active binary systems, RT And and ER Vul: 1995-1998 observations and spot distributions**
EKMEKCI F., OZEREN F. F., AK H.
ASTRONOMISCHE NACHRICHTEN, vol.323, no.1, pp.31-35, 2002 (SCI-Expanded)
- XII. **A light and period study of SV Camelopardalis**
ALBAYRAK B., DEMIRCAN O., DJURASEVIC G., ERKAPIC S., AK H.
ASTRONOMY & ASTROPHYSICS, vol.376, no.1, pp.158-164, 2001 (SCI-Expanded)
- XIII. **UBV photometry of the massive eclipsing binary TT Aur**
OZDEMIR S., AK H., TANRIVER M., GULSECEN H., GULSECEN S., SAYGAC A., BUDDING E., DEMIRCAN O.
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA, vol.18, no.2, pp.151-157, 2001 (SCI-Expanded)
- XIV. **Search for forced oscillations in binaries - III. Improved elements and the detection of line-profile variability of the B4V+A6V: system AR Cassiopeiae**
HOLMGREN D., HADRAVA P., HARMANEC P., EENENS P., CORRAL L., YANG S., AK H., BOZIC H.
ASTRONOMY & ASTROPHYSICS, vol.345, no.3, pp.855-868, 1999 (SCI-Expanded)

- XV. **On the coronal activity of the RS CVn-type binaries.**
Demircan O., AK H.
Turkish Journal of Physics, vol.23, pp.433-443, 1999 (SCI-Expanded)
- XVI. **The early type contact binary system V 382 Cygni**
DEGIRMENCI O., SEZER C., DEMIRCAN O., ERDEM A., OZDEMIR S., Ak H., ALBAYRAK B.
ASTRONOMY & ASTROPHYSICS SUPPLEMENT SERIES, vol.134, no.2, pp.327-331, 1999 (SCI-Expanded)
- XVII. **A model of the early type binary system BF Aurigae**
DEMIRCAN O., OZDEMIR S., ALBAYRAK B., Ak H., TANRIVER M., DEGIRMENCI O., ERDEM A., SEZER C.
REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, vol.33, no.2, pp.131-135, 1997 (SCI-Expanded)
- XVIII. **UBV photometry of the WR binary CQ Cephei**
DEMIRCAN O., Ak H., OZDEMIR S., TANRIVER M., ALBAYRAK B.
ASTRONOMISCHE NACHRICHTEN, vol.318, no.5, pp.267-272, 1997 (SCI-Expanded)
- XIX. **An analysis of the light curves of the early-type binary BF Aurigae**
DJURASEVIC G., DEMIRCAN O., OZDEMIR S., TANRIVER M., MUYESSEROGLU Z., Ak H., ALBAYRAK B.
ASTROPHYSICS AND SPACE SCIENCE, vol.253, no.2, pp.265-274, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **The mysterious and complicated interacting binary beta Lyr, new proof of the existence of various structures of a circumstellar matter**
Chadima P., Harmanec P., AK H., Demircan O.
Open European Journal on Variable Stars, vol.109, pp.39-42, 2009 (Non Peer-Reviewed Journal)
- II. **New findings supporting the presence of several distinct structures of circumstellar matter in B Lyræ**
Chadima P., Harmanec P., AK H., DEMIRCAN O., Yang S., Koubsky P., Skoda P., Slechta M., Wolf M., Bozic H., et al.
Proceedings of the International Astronomical Union, vol.2, pp.205-208, 2006 (Scopus)
- III. **Photoelectric Minimum Times of Some Eclipsing Binary Stars II**
AK H., FİLİZ AK N.
IBVS, no.5462, pp.1-2, 2003 (Non Peer-Reviewed Journal)
- IV. **Photoelectric Minimum Times of Some Eclipsing Binary Stars**
AK H., FİLİZ AK N.
IBVS, no.5462, pp.5462, 2003 (Non Peer-Reviewed Journal)
- V. **Photoelectric Minimum Times of Some Eclipsing Binary Stars I**
AK H., ÖZEREN F. F., EKMEKÇİ F.
IBVS, no.5361, pp.1-2, 2003 (Non Peer-Reviewed Journal)
- VI. **Photoelectric Minimum Times of Two RS CVn Type Binary Systems: RT And and SV Cam**
Ekmekçi F., AK H.
IBVS, vol.5174, pp.5174, 2001 (Non Peer-Reviewed Journal)
- VII. **Photoelectric Observations and Minima Times of Four W UMa Systems: LS Del, SW Lac, V839 Oph and AQ Psc**
Demircan O., TANRIVER M., Devlen A., Bulut A., Savranlar A., Yüksel Y., Aşçılar A., Aslan Z., AK H., al. e.
IBVS, vol.4126, pp.4126, 1994 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Spectroscopic analysis of eclipsing SB2 stars: a case study**
Lehmann H., Soutworth J., Tkachenko A., Pavloski K., Maceroni C., AK H.
Setting a New Standard in the Analysis of Binary Stars, Tautenburg, Germany, 21 - 24 February 2014, vol.64, pp.219-227

- II. **High Resolution Coude Echelle Spectroscopy of IX Per**
Ak N., Eker Z., AK H., Kuecuk İ.
15th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, St Andrews, Scotland, 21 - 25 July 2008, vol.1094, pp.632-633
- III. **HD 10308 Çoklu Sisteminin TUG Coude Yüksek Çözünürlüklü Tayflarının Analizi**
AK H., FİLİZ AK N.
XVI. Ulusal Astronomi Toplantısı, Çanakkale, Turkey, 8 - 12 September 2008, vol.2, pp.629
- IV. **IX PER Sisteminin Yüksek Çözünürlüklü Coude-Echelle tayflarının Analizi**
FİLİZ AK N., AK H., Eker Z., KÜÇÜK İ.
XVI. Ulusal Astronomi Kongresi, Çanakkale, Turkey, 8 - 12 September 2008, vol.2, pp.644-653
- V. **New Findings Supporting the Presence of Several Distinct Structures of Circumstellar Matter in β Lyr**
Chadima P., Harmanec P., AK H., DEMİRCAN O., Yang S., Koubsky P., Skoda P., Slechta M., Wolf M., Bozic H., et al.
Binary Stars as Critical Tools & Tests in Contemporary Astrophysics, Prag, Czech Republic, 22 - 25 August 2006, vol.240, pp.205-208
- VI. **The Be star omicron Cassiopeiae**
Koubsky P., AK H., Harmanec P., Yang S., Bozic H.
Variable Stars in the Local Group, IAU Colloquium 193, Christchurch, New Zealand, 6 - 11 July 2003, vol.310, pp.387-390
- VII. **The Wind Material around the Binary Systems I Tau and TU Hor: A Photometric Study**
AK H., Demircan O.
New Directions for Close Binary Studies: The Royal Road to the Stars, Çanakkale, Turkey, 10 - 14 June 2002, pp.241-245
- VIII. **CQ Cep Çift Yıldız Sisteminde Rüzgar Etkinlikleri**
AK H., TANRIVER M., DEMİRCAN O.
XI. Ulusal Astronomi Toplantısı, Turkey, 23 - 27 August 1999, vol.1, pp.162-166
- IX. **A Photometric Study of the Early-type Binary BF Aurigae**
Djurasevic G., Demircan O., Özdemir S., TANRIVER M., Müyesseroğlu Z., AK H., Albayrak B.
Proceedings of the 20th Stellar Conference of the Czech and Slovak Astronomical Institutes, Brno, Czech Republic, 5 - 07 November 1997, vol.20, pp.58-63
- X. **V and R Observations of Two Carbon Stars: UX Dra and RY Dra**
AK H., Albayrak B., Aslan Z., Demircan O., Müyesseroğlu Z., Özdemir S., Yüce K.
The Carbon Star Phenomenon, Proceedings of the 177th Symposium of the International Astronomical Union, Antalya, Turkey, 27 - 31 May 1996, vol.177, pp.515
- XI. **Photometric variability of three noneclipsing active binaries II Peg UX Ari and V 1762 CYG**
AK H., EKMEKÇİ F., ALBAYRAK B., ÖZEREN F. F., Demircan O.
Cool stars; stellar systems; and the sun : 9, Florence, Italy, 3 - 06 September 1995, vol.109, pp.635-636

Other Publications

- I. **Photometric variability of three noneclipsing active binaries: II Peg, UX Ari and V 1762 CYG**
AK H., EKMEKÇİ F., ALBAYRAK B., ÖZEREN F. F., DEMİRCAN O.
Presentation, pp.635, 1996

Supported Projects

AK H., FİLİZ AK N., AVCI A., TANRIVER M., YILDIZ M. K., AKKAYA İ., Project Supported by Higher Education Institutions, ASTRONOMİ VE UZAY BİLİMLERİ BÖLÜMÜNDE OPTİK TELESKOP KURULUMU VE SEÇİLMİŞ ÇİFT YILDIZLARIN FOTOMETRİK GÖZLEMLERİ VE ANALİZİ, 2009 - 2017

TANRIVER M., AKKAYA İ., AK H., FİLİZ AK N., SARIKAYA M., Project Supported by Higher Education Institutions, OB BİLEŞENLİ ERKEN TÜR ÇİFT YILDIZLARIN IŞIK EĞRİSİ ANALİZİ VE FİZİKSEL PARAMETRELERİNİN BELİRLENMESİ, 2009 - 2017

AK H., KAYACI Ş., AKYÜZ A., Project Supported by Higher Education Institutions, XMM-Newton Arşiv Verilerini Kullanarak Yakın Galaksilerde X-ışın Kaynaklarının Araştırılması, 2010 - 2011

Memberships / Tasks in Scientific Organizations

Türk Astronomi Derneği, Member, 1994 - Continues

Tasks In Event Organizations

Tanriver M., Ak H., Akkaya Oralhan İ., Filiz Ak N., Yıldız M. K., Tokbay D. E., 21. Ulusal Astronomi Kongresi, Scientific Congress, Kayseri, Turkey, Eylül 2018

Mobility Activity

Other, Guest Researcher, Pennsylvania State University University College Park Campus, United States Of America, 2011 - 2014

Metrics

Publication: 38

Citation (WoS): 203

Citation (Scopus): 101

H-Index (WoS): 9

H-Index (Scopus): 7

Congress and Symposium Activities

21. Ulusal Astronomi Kongresi, Working Group, Kayseri, Turkey, 2018

Ulusal Astronomi Kongresi, Working Group, Erzurum, Turkey, 2016

Non Academic Experience

Penn State University, USA

Public Research Center, TÜBİTAK

Ulusal Gözlemevi

Ondrejov Observatory

Ondrejov Observatory