

Asst. Prof. Ayşe ULUBAY

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-1236-2020

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Education Information

Doctorate, Ludwig-Maximilians-Universitaet München, Faculty Of Physics, Physics/Astronomy, Germany 2005 - 2009

Postgraduate, Universitaet Stuttgart, Faculty Of Mathematics And Physics, Department Of Physics, Germany 2001 - 2004

Undergraduate, Ege University, Faculty Of Science, Astronomi Ve Uzay Bilimleri Bölümü, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Self-Gravitating Warped Disks Around Supermassive Black Holes in Galactic Nuclei, Ludwig-Maximilians-Universitaet München, 2009

Postgraduate, Monte Carlo Simulations for the Radiative Transfer in the Magnetospheres of Strongly Magnetized Compact Cosmic X-and Gamma-Ray Sources, Die Universitaet Stuttgart, 2004

Research Areas

Physics, Astronomy and Astrophysics, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2018 - Continues

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2010 - 2018

Researcher, Harvard University, Center For Astrophysics, Astronomy, 2010 - 2010

Other, Ludwig-Maximilians-Universitaet München, Faculty Of Physics, Physics Department, 2006 - 2009

Academic and Administrative Experience

Deputy Head of Department, Istanbul University, Faculty Of Science, Department Of Physics, 2021 - 2023

Courses

Calculus II, Undergraduate, 2022 - 2023, 2021 - 2022
Fluid Mechanics, Undergraduate, 2022 - 2023
Calculus I, Undergraduate, 2022 - 2023, 2021 - 2022
Algoritma ve Bilgisayar Programlamaya Giriş , Undergraduate, 2022 - 2023, 2021 - 2022
Seminer, Doctorate, 2021 - 2022
Undergraduate, 2020 - 2021
Physics II, Undergraduate, 2019 - 2020
Reading and Translation in Science, Undergraduate, 2020 - 2021, 2019 - 2020
İleri Fizik Uygulamaları II, Undergraduate, 2019 - 2020
Calculus I, Undergraduate, 2020 - 2021
Undergraduate, 2020 - 2021, 2019 - 2020
Physics I, Undergraduate, 2019 - 2020
Physics 1, Undergraduate, 2019 - 2020, 2018 - 2019
Dynamics of Astrophysical Discs, Doctorate, 2017 - 2018
Diferansiyel Denklemler, Undergraduate, 2017 - 2018, 2016 - 2017
Matematik 2, Undergraduate, 2017 - 2018, 2016 - 2017
İleri Fizik uygulamaları, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2012 - 2013
Galaxy II, Doctorate, 2016 - 2017
Numerical Methods In Physics & Applications II, Doctorate, 2016 - 2017
Galaxy I, Doctorate, 2016 - 2017
Galaxy III, Doctorate, 2016 - 2017
Matematik 1, Undergraduate, 2016 - 2017
Genel Fizik 2, Undergraduate, 2015 - 2016
Num. Meth. In Physics & Applications I, Doctorate, 2016 - 2017
Fizik 1, Undergraduate, 2016 - 2017
Bilgisayar Programlama II, Undergraduate, 2012 - 2013
Bilgisayar Programlama I, Undergraduate, 2012 - 2013, 2011 - 2012

Advising Theses

ULUBAY A., Gökada Merkezi'ndeki Nükleer Gaz Disk ve Genç Yıldız Disklerinin Modellenmesi, Postgraduate, B.Ekinci(Student), 2014

Jury Memberships

Doctoral Examination, Doctoral Examination, Sabancı Üniversitesi, February, 2021
Doctorate, Doctorate, Mimar Sinan Güzel Sanatlar Üniversitesi, February, 2021
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, July, 2020
Post Graduate, Post Graduate, Ege Üniversitesi, August, 2019
Doctorate, Doktora tez savunma jürisi, Ege Üniversitesi, June, 2017
Post Graduate, Yüksek lisans tez savunma jürisi, Trakya Üniversitesi, November, 2015
Post Graduate, Yüksek lisans tez savunma jürisi, Trakya Üniversitesi, November, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On counter-rotating, self-gravitating warped discs in galactic nuclei**
Ulubay A.
ASTROPHYSICS AND SPACE SCIENCE, vol.367, no.5, 2022 (SCI-Expanded)
- II. **The torque reversals of 4U 1626-67**
Gencali A. A., Niang N., Toyran O., Ertan U., Ulubay A., Sasmaz S., Devlen E., Vahdat A., Ozcan S., Alpar M. A.
ASTRONOMY & ASTROPHYSICS, vol.658, 2022 (SCI-Expanded)
- III. **Time evolution simulations for the galactic centre circumnuclear disc**
Ekinci B., ULUBAY A.
Astrophysics and Space Science, vol.366, no.1, 2021 (SCI-Expanded)
- IV. **Magnetorotational instability in diamagnetic, misaligned protostellar discs**
DEVLEN E., Ulubay A., PEKÜNLÜ E.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.491, no.4, pp.5481-5488, 2020 (SCI-Expanded)
- V. **On the possibility of a warped disc origin of the inclined stellar discs at the Galactic Centre**
Ulubay-Siddiki A., Bartko H., Gerhard O.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.428, no.3, pp.1986-2000, 2013 (SCI-Expanded)
- VI. **Self-gravitating warped discs around supermassive black holes**
Ulubay-Siddiki A., Gerhard O., Arnaboldi M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.398, no.2, pp.535-547, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of Equilibrium Warp Profiles of Maser Discs in Galactic Nuclei**
Ulubay A.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.17, no.2, pp.551-558, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Gökada merkezlerindeki yüksek kütleli eğri disklerin evrimi**
Ulubay A.
4. Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, 1 - 02 February 2021
- II. **Aktif Gökada Çekirdeklerindeki Yüksek Kütleli ve Eğrilikli Maser Disklerin Evrimi için Simülasyonlar**
ULUBAY A., Greenhill L.
19. Ulusal Astronomi Kongresi, 8. Ulusal Astronomi Öğrenci Kongresi, Ankara, Turkey, 2 - 06 February 2016, vol.1, pp.315
- III. **Gökada Merkezi'ndeki Nükleer Gaz Disk ve Genç Yıldız Disklerinin Modellenmesi**
Ekinci B., Ulubay A.
19. Ulusal Astronomi Kongresi, 8. Ulusal Astronomi Öğrenci Kongresi, Ankara, Turkey, 2 - 06 February 2016, vol.1, pp.251-253
- IV. **Counter-rotating, Self-gravitating Warped Discs in Galactic Nuclei**
Ulubay A.
5. Uluslararası Akdeniz Bilim ve Mühendislik Kongresi , Antalya, Turkey, 21 - 23 October 2020, pp.449-453
- V. **Diyamanyetik Gezegen Oluşum Disklerinde Manyetik Dönme Kararsızlığı**
DEVLEN E., ULUBAY A., PEKÜNLÜ E. R.
YEFAK-2019, Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, İstanbul, Turkey, 30 - 31 January 2019
- VI. **Magnetorotational Instability In Diamagnetic Disks**
Devlen E., Ulubay A., Pekünlü E. R.

YEFAK-2018, Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, İstanbul, Turkey, 8 - 09 February 2018, pp.36

VII. Simulations of warped megamaser disks in Galactic Nuclei

Ulubay A., Greenhill L.

Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Munich, Germany, 18 - 22 March 2013

VIII. On the Possibility of a Warped Disk Origin of the Inclined Stellar Disks at the Galactic Center

ULUBAY SİDDİKİ A., Hendrik B.

The Central Kiloparsec in Galactic Nuclei Astronomy at High Angular Resolution 2011, Germany, 1 - 04 July 2012, vol.372, pp.12017

IX. Yakın Aktif Gökada Çekirdekleri ve Samanyolu Merkezinde Eğrilikli Diskler

ULUBAY A.

Astrofizikte Manyetik ve Hidrodinamik Süreçler I. Çalıştayı, İzmir, Turkey, 1 - 03 February 2010, pp.64-74

X. Gökada Merkezindeki Genç Yıldız Diskleri için Eğrilikli Disk Oluşum Senaryosu

ULUBAY A., Gerhard O., Arnaboldi M.

XVI. Ulusal Astronomi Kongresi ve V. Ulusal Öğrenci Astronomi Kongresi, Çanakkale, Turkey, 8 - 12 September 2008, pp.21-29

XI. Self-Gravitating Warped Disks Around Black Holes

Ulubay Siddiki A., Arnaboldi M., Gerhard O.

Microquasars and Beyond, İzmir, Turkey, 1 - 04 December 2008, pp.84

XII. Self-gravitating warped disks around nuclear black holes

ULUBAY SİDDİKİ A., Gerhard O., Arnaboldi M.

Black Holes from Stars to Galaxies -- Across the Range of Masses - IAU Symposium #238, Czech Republic, 1 - 04 April 2007, vol.238, pp.467-468

XIII. Süper Kütleli Karadelikler Etrafında Eğrilikli Diskler

ULUBAY A., Gerhard O., Arnaboldi M.

XV. Ulusal Astronomi Kongresi ve IV. Ulusal Öğrenci Astronomi Kongresi, İstanbul, Turkey, 25 August - 01 September 2006, pp.699-708

Other Publications

I. Astronomi-Bir Bakışta Evren/Astronomy the Universe at a Glance (yazarlar: E. Chaisson, S. McMillan) kitap çevirisi

Yıldız M., İnam S. Ç., ULUBAY A.

Other, pp.310, 2016

Supported Projects

Ulubay A., Ertan Ü., Devlen E., TUBITAK Project, Kütle Aktaran Nötron Yıldızlarının Dönme Fazları Üzerine, 2021 - 2023

Ulubay A., Devlen E., Zengin Çamurdan D., TUBITAK Project, Güneş Tacının Isıtılması Ve Güneş Rüzgarının

İvmelendirilmesinde Mhd Dalgalarının Rolü, 2019 - 2022

ULUBAY A., TUBITAK Project, Gökada Merkezi'ndeki Merkezi Gaz Disk Ve Genç Yıldız Disklerinin Modellenmesi, 2013 - 2015

ULUBAY A., Project Supported by Higher Education Institutions, Simulations of Warped Megamaser Disks in Galactic Nuclei, 2013 - 2013

ULUBAY A., Project Supported by Higher Education Institutions, Circinus Gökadasındaki Maser Disk İçin Öz Çekimsel Eğrilikli Disk Modeli, 2011 - 2013

ULUBAY A., Project Supported by Higher Education Institutions, On the Possibility of a Warped Disk Origin of the Inclined Stellar Disks at the Galactic Center, 2011 - 2011

Memberships / Tasks in Scientific Organizations

Uluslararası Astronomi Birliği, Member, 2015 - Continues
Avrupa Astronomi Derneği, Member, 2015 - Continues
Türk Astronomi Derneği, Member, 2012 - Continues

Scientific Refereeing

Project Supported by Higher Education Institutions, June 2017
TUBITAK Project, June 2012

Tasks In Event Organizations

Ulubay A., Ertan Ü., Devlen E., Ekşi K. Y., Şaşmaz S., Işık E., Hakkı Ögelman Yaz Okulu II - Astrofizikte Modelleme: Güneş'ten Gökada Merkezlerine , Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ağustos 2019
Aydiner E., Ulubay A., Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştay, Workshop Organization, Turkey, Ocak 2019
Ulubay A., Çalışkan Ş., Devlen E., Erkut M. H., Ertan Ü., Şaşmaz S., Feza Gürsey Yaz Okulları 2017: Astrofiziksel Diskler, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ağustos 2017
Ulubay A., Devlen E., Pekünlü E. R., Astrofizikte Manyetik ve Hidrodinamik Süreçler I. Çalıştay, Workshop Organization, İzmir, Turkey, Şubat 2010

Metrics

Publication: 21
Citation (WoS): 23
Citation (Scopus): 22
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

22. Akademik Bilişim Konferansı, Audience, İstanbul, Turkey, 2024
Gezegenlerin İç Yapısı ve Evrimi (GİYE) Çalıştay, Session Moderator, İzmir, Turkey, 2023
Ege Üniversitesi Gözlemevi Çalıştay Serisi #8- Toplanma Disklerinin Doğası, Invited Speaker, İzmir, Turkey, 2021
Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştay – 2021, Invited Speaker, İstanbul, Turkey, 2021
Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştay – 2018, Attendee, Turkey, 2018
European Week of Astronomy and Space Science, Attendee, Santa Cruz De Tenerife, Spain, 2015
19.Ulusal Astronomi Kongresi ve 8. Ulusal Öğrenci Astronomi Kongresi, Attendee, Ankara, Turkey, 2015
Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Attendee, Tegernsee, Germany, 2013
XVIII. ULUSAL ASTRONOMİ ve UZAY BİLİMLERİ KONGRESİ VII. ULUSAL ÖĞRENCİ ASTRONOMİ ve UZAY BİLİMLERİ KONGRESİ, Attendee, Malatya, Turkey, 2012
Black Holes by the Black Sea, Attendee, İstanbul, Turkey, 2012
Astronomy at High Angular Resolution, Attendee, Bad Honnef, Germany, 2011
Dynamics from the Galactic Center to the Milky Way Halo, Audience, Massachusetts, United States Of America, 2010
Physics of Galactic Nuclei, Attendee, Tegernsee, Germany, 2009
Active Galactic Nuclei at the highest angular resolution: theory and observations, Attendee, Torun, Poland, 2007
Galactic Center Workshop, Attendee, Tegernsee, Germany, 2007
N-Body Dynamics in Near Keplerian Potentials, Attendee, Leiden, Netherlands, 2007

IAU Sempozyumu/238: Black Holes - From Stars to Galaxies, Attendee, Prag, Czech Republic, 2006

Invited Talks

GÖKADA MERKEZLERİNDEKİ YÜKSEK KÜTLELİ EĞRİ DİSKLERİN EVRİMİ, Workshop, İstanbul Üniversitesi, Turkey, February 2021

Scholarships

Doktora Araştırma Bursu, Other International Organizations, 2006 - 2009

Doktora Araştırma Bursu, Other International Organizations, 2005 - 2005

Doktora Bursu, Official Institutions of Foreign Countries, 2004 - 2005