

Prof. Şölen BALMAN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: N-6095-2019

ScopusID: 6603483828

Yoksis Researcher ID: 164330

Education Information

Doctorate, University of Wisconsin-Madison, College of Letters and Science, Physics, United States Of America 1992 - 1997

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department of Physics, Turkey 1987 - 1991

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Vocational Training, Introduction to SPACE SYSTEMS ENGINEERING" course by Prof. Dr. S. Gabriel, School of Engineering Sciences, Aerospace Engineering, Univ. of Southampton, European Space Agency, 2006

Other, Fine Arts (Minor), Bogazici University, 1991

Dissertations

Doctorate, X-Ray Emission from Classical Novae in Outburst: Nova Cygni 1992 and Other ROSAT Detections of Galactic Novae, University of Wisconsin-Madison, Fen-Edebiyat Fakültesi, Fizik, 1997

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty Of Science, Astronomy And Space Sciences, 2020 - Continues
Professor, Kadir Has University, Faculty Of Engineering And Natural Sciences, 2019 - Continues
Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2012 - 2018
Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1999 - 2002
Lecturer PhD, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1997 - 1999

Academic and Administrative Experience

BAP Scientific Commissioner, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2013 - 2018
BÖLÜM BAŞKAN DANIŞMANI, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2009 - 2012
Fakülte Kurulu Üyesi, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2000 - 2003

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Istanbul University, December, 2022
Associate Professor Exam, Associate Professor Exam, Istanbul University, February, 2021
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, August, 2018
Award, TÜBİTAK Bilim Ödülü, TÜBİTAK, June, 2018
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, December, 2017
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, March, 2016
Award, TÜBİTAK TEŞVİK ÖDÜLÜ JURİSİ, TÜBİTAK, June, 2014

Designed Lessons

Balman Ş., De Pascual M., Radiative Processes in Astrophysics, Postgraduate, 2021 - 2022
Balman Ş., Exploring the Cosmos, Undergraduate, 2019 - 2020
Balman Ş., X-ray Binaries, Doctorate, 2007 - 2008
Balman Ş., Astrophysical Data Analysis, Doctorate, 2004 - 2005
Balman Ş., PHYS 281 Basic Physics III -- An introduction to Astronomy, Undergraduate, 1999 - 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterizing the Advective Hot Flows of Nova-like Cataclysmic Variables in the X-Rays: The Case of BZ Cam and V592 Cas**
BALMAN Ş., Schlegel E. M., Godon P.
ASTROPHYSICAL JOURNAL, vol.932, no.1, 2022 (SCI-Expanded)
- II. **Time domain astronomy with the THESEUS satellite**
Mereghetti S., Balman Ş., Caballero-Garcia M., Del Santo M., Doroshenko V., Erkut M. H., Hanlon L., Hoeflich P., Markowitz A., Osborne J. P., et al.
EXPERIMENTAL ASTRONOMY, vol.52, pp.309-406, 2021 (SCI-Expanded)
- III. **Synergies of THESEUS with the large facilities of the 2030s and guest observer opportunities**
Rosati P., Basa S., Blain A. W., Bozzo E., Branchesi M., Christensen L., Ferrara A., Gomboc A., O'Brien P. T., Osborne J. P., et al.
EXPERIMENTAL ASTRONOMY, vol.52, no.3, pp.407-437, 2021 (SCI-Expanded)
- IV. **The Remarkable Spin-down and Ultrafast Outflows of the Highly Pulsed Supersoft Source of Nova Herculis 2021**

Drake J. J., Ness J., Page K. L., Luna G. J. M., Beardmore A. P., Orio M., Osborne J. P., Mroz P., Starrfield S., Banerjee D. P. K., et al.

ASTROPHYSICAL JOURNAL LETTERS, vol.922, no.2, 2021 (SCI-Expanded)

- V. **The ULX source X-3 in NGC 4258: a search for its X-ray and optical properties**
Akyuz A., Avdan S., Allak S., Aksaker N., Oralhan I. A., Balman Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.499, no.2, pp.2138-2147, 2020 (SCI-Expanded)
- VI. **Preface: Nova eruptions, cataclysmic variables and related systems: Challenges in the 2020 era**
BALMAN Ş.
ADVANCES IN SPACE RESEARCH, vol.66, no.5, pp.1001-1003, 2020 (SCI-Expanded)
- VII. **X-ray properties of dwarf nova EY Cyg and the companion star using an XMM-Newton observation**
Nabizadeh A., BALMAN Ş.
ADVANCES IN SPACE RESEARCH, vol.66, no.5, pp.1139-1146, 2020 (SCI-Expanded)
- VIII. **Accretion flows in nonmagnetic white dwarf binaries as observed in X-rays**
BALMAN Ş.
ADVANCES IN SPACE RESEARCH, vol.66, no.5, pp.1097-1122, 2020 (SCI-Expanded)
- IX. **Disk structure of cataclysmic variables and broadband noise characteristics in comparison with XRBs**
BALMAN Ş.
ASTRONOMISCHE NACHRICHTEN, vol.340, no.4, pp.296-301, 2019 (SCI-Expanded)
- X. **Optical Counterparts of ULXs and Their Host Environments in NGC 4490/4485**
Avdan S., AKYÜZ A., Vinokurov A., AKSAKER N., Avdan H., Fabrika S., Valeev A., Akkaya-Oralhan I., BALMAN Ş.
ASTROPHYSICAL JOURNAL, vol.875, no.1, 2019 (SCI-Expanded)
- XI. **Science with e-ASTROGAM A space mission for MeV-GeV gamma-ray astrophysics**
De Angelis A., Tatischeff V., Grenier I. A., McEnery J., Mallamaci M., Tavani M., Oberlack U., Hanlon L., Walter R., Argan A., et al.
JOURNAL OF HIGH ENERGY ASTROPHYSICS, vol.19, pp.1-106, 2018 (SCI-Expanded)
- XII. **A long serendipitous XMM-Newton observation of the intermediate polar XY Ari**
Camurdan D. Z., BALMAN Ş., Burwitz V.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.477, no.3, pp.4035-4045, 2018 (SCI-Expanded)
- XIII. **Modifying the Standard Disk Model for the Ultraviolet Spectral Analysis of Disk-dominated Cataclysmic Variables. I. The Novalikes MV Lyrae, BZ Camelopardalis, and V592 Cassiopeiae**
Godon P., Sion E. M., Balman Ş., Blair W. P.
ASTROPHYSICAL JOURNAL, vol.846, no.1, 2017 (SCI-Expanded)
- XIV. **Reanalysis of high-resolution XMM-Newton data of V2491 Cygni using models of collisionally ionized hot absorbers**
BALMAN Ş., Gamsizkan C.
ASTRONOMY & ASTROPHYSICS, vol.598, 2017 (SCI-Expanded)
- XV. **X-RAY SPECTRAL AND OPTICAL PROPERTIES OF A ULX IN NGC 4258 (M106)**
Avdan H., Avdan S., AKYÜZ A., BALMAN Ş., AKSAKER N., Oralhan I. A.
ASTROPHYSICAL JOURNAL, vol.828, no.2, 2016 (SCI-Expanded)
- XVI. **Pre-outburst Chandra observations of the recurrent nova T Pyxidis**
BALMAN Ş.
ASTRONOMY & ASTROPHYSICS, vol.572, 2014 (SCI-Expanded)
- XVII. **SWIFT X-RAY ILLESCOPE OBSERVATIONS OF THE NOVA-LIKE CATAclysmic VARIABLES MV Lyr, BZ Cam, AND V592 Cas**
BALMAN Ş., Godon P., Sion E. M.
ASTROPHYSICAL JOURNAL, vol.794, no.1, 2014 (SCI-Expanded)
- XVIII. **A search for periodicities from a ULX in the LINER galaxy NGC 4736**
Avdan H., Avdan S. K., AKYÜZ A., BALMAN Ş.
ASTROPHYSICS AND SPACE SCIENCE, vol.352, no.1, pp.123-128, 2014 (SCI-Expanded)
- XIX. **XMM-NEWTON OBSERVATIONS OF LUMINOUS SOURCES IN NEARBY GALAXIES NGC 4395, NGC 4736,**

AND NGC 4258

AKYÜZ A., Kayaci S., Avdan H., Ozel M. E., Sonbas E., BALMAN Ş.

ASTRONOMICAL JOURNAL, vol.145, no.3, 2013 (SCI-Expanded)

- XX. **X-ray variations in the inner accretion flow of dwarf novae**
BALMAN Ş., Revnivtsev M.
ASTRONOMY & ASTROPHYSICS, vol.546, 2012 (SCI-Expanded)
- XXI. **The outburst of Nova CSS 081007:030559+054715 (HV Ceti)**
Beardmore A. P., Osborne J. P., Page K. L., Hakala P. J., Schwarz G. J., Rauch T., BALMAN Ş., Evans P. A., Goad M. R., Ness J. -, et al.
ASTRONOMY & ASTROPHYSICS, vol.545, 2012 (SCI-Expanded)
- XXII. **ORBITAL-PHASE-RESOLVED SPECTROSCOPY OF THE INTERMEDIATE POLAR FO AQR USING XMM-NEWTON OBSERVATORY DATA**
Pekon Y., BALMAN Ş.
ASTRONOMICAL JOURNAL, vol.144, no.2, 2012 (SCI-Expanded)
- XXIII. **XMM-NEWTON OBSERVATIONS OF THE DWARF NOVA RU Peg IN QUIESCENCE: PROBE OF THE BOUNDARY LAYER**
BALMAN Ş., Godon P., Sion E. M., Ness J., Schlegel E., Barrett P. E., Szkody P.
ASTROPHYSICAL JOURNAL, vol.741, no.2, 2011 (SCI-Expanded)
- XXIV. **Orbital and spin phase-resolved spectroscopy of the intermediate polar EX Hya using XMM-Newton data**
Pekon Y., BALMAN Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.411, no.2, pp.1177-1196, 2011 (SCI-Expanded)
- XXV. **Frequency-resolved spectroscopy of XB1323-619 using XMM-Newton data: detection of a reflection region in the disc**
BALMAN Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.407, no.3, pp.1895-1902, 2010 (SCI-Expanded)
- XXVI. **A search for supernova remnants in the nearby spiral galaxy M74 (NGC 628)**
Sonbas E., AKYÜZ A., BALMAN Ş., Ozel M. E.
ASTRONOMY & ASTROPHYSICS, vol.517, 2010 (SCI-Expanded)
- XXVII. **The XMM-Newton detection of extended emission from the nova remnant of T Pyxidis**
BALMAN Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.404, no.1, 2010 (SCI-Expanded)
- XXVIII. **Swift observations of CSS081007:030559+054715**
Beardmore A. P., Osborne J. P., Page K. L., Schwarz G., Starrfield S., Hakala P., Ness J. -, BALMAN Ş., Wagner R. M.
ASTRONOMISCHE NACHRICHTEN, vol.331, no.2, pp.156-159, 2010 (SCI-Expanded)
- XXIX. **A STUDY OF THE LOW-MASS X-RAY BINARY DIP SOURCES XB 1916-053, XB 1323-619, X 1624-490 AND 4U 1746-371 OBSERVED WITH INTEGRAL**
BALMAN Ş.
ASTRONOMICAL JOURNAL, vol.138, no.1, pp.50-62, 2009 (SCI-Expanded)
- XXX. **The broad-band noise characteristics of selected anomalous X-ray pulsars and soft gamma-ray repeaters**
Kulebi B., BALMAN Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.395, no.4, pp.2356-2362, 2009 (SCI-Expanded)
- XXXI. **An optical search for supernova remnants in the nearby spiral galaxy NGC 2903**
Sonbas E., AKYÜZ A., BALMAN Ş.
ASTRONOMY & ASTROPHYSICS, vol.493, no.3, pp.1061-1065, 2009 (SCI-Expanded)
- XXXII. **Variations in the dip properties of the low-mass X-ray binary XB 1254-690 observed with XMM-Newton and INTEGRAL**
Trigo M. D., Parmar A. N., Boirin L., Motch C., Talavera A., BALMAN Ş.
ASTRONOMY & ASTROPHYSICS, vol.493, no.1, pp.145-157, 2009 (SCI-Expanded)
- XXXIII. **RR Pic (1925): A Chandra X-ray view**

- Pekoen Y., BALMAN Ş.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.388, no.2, pp.921-926, 2008 (SCI-Expanded)
- XXXIV. **The inclination angle and mass of the black hole in XTE J1118+480**
Gelino D., BALMAN Ş., Kiziloglu U., Yilmaz A., Kalemci E., Tomsick J.
ASTROPHYSICAL JOURNAL, vol.642, no.1, pp.438-442, 2006 (SCI-Expanded)
- XXXV. **The detection of a 3.5 hr period in the classical nova Velorum 1999 (V382 Vel) and the long-term behavior of the Nova light curve**
BALMAN Ş., Retter A., Bos M.
ASTRONOMICAL JOURNAL, vol.131, no.5, pp.2628-2633, 2006 (SCI-Expanded)
- XXXVI. **An archival study of extended X-ray emission from classical and recurrent novae**
Balman Ş.
ADVANCES IN SPACE RESEARCH, vol.38, no.12, pp.2840-2843, 2006 (SCI-Expanded)
- XXXVII. **X-ray outburst of 4U 0115+634 and ROTSE observations of its optical counterpart V635 Cas**
Baykal A., Kiziloglu U., Kiziloglu N., BALMAN Ş., Inam S.
ASTRONOMY & ASTROPHYSICS, vol.439, no.3, pp.1131-1134, 2005 (SCI-Expanded)
- XXXVIII. **Chandra observation of the shell of Nova Persei 1901 (GK Persei): Detection of localized nonthermal X-ray emission from a miniature supernova remnant**
BALMAN Ş.
ASTROPHYSICAL JOURNAL, vol.627, no.2, pp.933-952, 2005 (SCI-Expanded)
- XXXIX. **Discovery of irradiation-induced variations in the light curve of the classical nova V2275 Cyg (N Cyg 2001 No. 2)**
Balman Ş., Yilmaz A., Retter A., Saygac T., Esenoglu H. H.
Monthly Notices of the Royal Astronomical Society, vol.356, no.2, pp.773-777, 2005 (SCI-Expanded)
- XL. **Discovery of a transient magnetar: XTE J1810-197**
Ibrahim A., Markwardt C., Swank J., Ransom S., Roberts M., Kaspi V., Woods P., Safi-Harb S., BALMAN Ş., Parke W., et al.
ASTROPHYSICAL JOURNAL, vol.609, no.1, 2004 (SCI-Expanded)
- XLI. **A Chandra low energy transmission grating spectrometer observation of V4743 Sagittarii: A supersoft X-ray source and a violently variable light curve**
Ness J., Starrfield S., Burwitz V., Wichmann R., Hauschildt P., Drake J., Wagner R., Bond H., Krautter J., Orio M., et al.
ASTROPHYSICAL JOURNAL, vol.594, no.2, 2003 (SCI-Expanded)
- XLII. **CHANDRA detection of 16 new X-ray sources**
Yoldas A., BALMAN Ş.
ASTRONOMY & ASTROPHYSICS, vol.384, no.1, pp.190-194, 2002 (SCI-Expanded)
- XLIII. **The re-analysis of the ROSAT data of Nova Mus 1983 using white dwarf atmosphere emission models**
Balman Ş., Krautter J.
Monthly Notices of the Royal Astronomical Society, vol.326, no.4, pp.1441-1447, 2001 (SCI-Expanded)
- XLIV. **The emission nebula associated with V1974 Cygni: a unique object?**
Casalegno R., Orio M., Mathis J., Conselice C., Gallagher J., BALMAN Ş., Della Valle M., Homeier N., Ogelman H.
ASTRONOMY & ASTROPHYSICS, vol.361, no.2, pp.725-733, 2000 (SCI-Expanded)
- XLV. **The first resolved and detected classical nova shell in X-rays in comparison with the ROSAT detections of hard X-ray emission from classical nova in outburst**
Balman Ş., Ögelman H.
Advances in Space Research, vol.25, pp.363-368, 2000 (SCI-Expanded)
- XLVI. **The first resolved and detected classical nova shell in X-rays: The shell of Nova Persei 1901**
BALMAN Ş., Ogelman H.
ASTROPHYSICAL JOURNAL, vol.518, no.2, 1999 (SCI-Expanded)
- XLVII. **The X-ray spectral evolution of classical Nova V1974 Cygni 1992: A reanalysis of the ROSAT data**
BALMAN Ş., Krautter J., Ogelman H.
ASTROPHYSICAL JOURNAL, vol.499, no.1, pp.395-406, 1998 (SCI-Expanded)
- XLVIII. **X-ray emission of Nova Puppis 1991: Accretion or a shocked shell?**

Orio M., BALMAN Ş., DellaValle M., Gallagher J., Ogelman H.
ASTROPHYSICAL JOURNAL, vol.466, no.1, pp.410-414, 1996 (SCI-Expanded)

- XLIX. **ROSAT OBSERVATION OF THE OLD CLASSICAL NOVA CP PUPPIS**
BALMAN Ş., ORIO M., OGELMAN H.
ASTROPHYSICAL JOURNAL, vol.449, no.1, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **TUG-SRG Kaynakları Arasından Simbiyotik Keşfi**
Esenoğlu H. H., Aktekin Çalışkan E., Sonbaş E., Balman Ş., Khamitov I., Yelkenci F. K., Fişek S., Zengin Çamurdan D.
TJAA, vol.4, no.3, pp.353-358, 2023 (Peer-Reviewed Journal)
- II. **Inner Disk Structure of Dwarf Novae in the Light of X-Ray Observations**
Balman Ş.
Acta Polytechnica CTU Proceedings, vol.2, no.1, pp.116-127, 2015 (Peer-Reviewed Journal)
- III. **The X-ray properties of cataclysmic variables**
Balman Ş.
MEMORIE DELLA SOCIETÀ ASTRONOMICA ITALIANA, vol.83, no.2, pp.585-597, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Nova Eruptions, cataclysmic Variables and Related Systems: Challenges in the 2020 Era**
Balman Ş. (Editor)
Elsevier Science, Oxford/Amsterdam , New York, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **TUG-SRG Kaynakları Arasından Simbiyotik Keşfi**
Esenoğlu H. H., Aktekin Çalışkan E., Sonbaş E., Balman Ş., Khamitov I., Yelkenci F. K., Fişek S.
22. Ulusal Astronomi Kongresi (UAK), İzmir, Turkey, 6 - 08 September 2022
- II. **SGRAJ213151.5+491400 - SRG Misyonu ile Keşfedilen bir Manyetik Katakliksmik Değişkenin Tanımlanması ve Çoklu-Dalgaboyu Gözlemleri**
Balman Ş., Khamitov I., Kolbin A., Aktekin Çalışkan E., Bikmaev I., Özdönmez A., Burenin R., Kılıç Y., Esenoğlu H. H., Yelkenci F. K., et al.
22. Ulusal Astronomi Kongresi (UAK), İzmir, Turkey, 6 - 08 September 2022
- III. **X-ray and Optical Properties of ULXs in NGC 4490/4485**
Avdan Ş., AKYÜZ A., Avdan H., AKSAKER N., BALMAN Ş.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- IV. **X-ray Spectral analysis of the Cataclysmic Variable LS Peg using XMM-Newton Observatory Data**
Balman Ş.
The X-ray Universe 2017, Rome, Italy, 1 - 05 May 2017, pp.330
- V. **Reanalysis of high-resolution XMM-Newton data of V2491 Cygni using models of collisionally ionized hot absorbers**
Gamsizkan C., Balman Ş.
The X-ray Universe 2017, Rome, Italy, 6 - 09 June 2017, pp.1-2
- VI. **Exploring the Nature of ULX X-3 in NGC 4258**
AKYÜZ A., Avdan H., Avdan Ş., AKSAKER N., BALMAN Ş.
THE X-RAY UNIVERSE 2017" SYMPOSIUM, Roma, Italy, 6 - 09 June 2017, pp.72
- VII. **Long Term Temporal and Spectral Evolution of Point Sources in Nearby Elliptical Galaxies**

Duygu D., Guver T., Hudaverdi M., Sert H., BALMAN Ş.

XMM-Newton: The Next Decade, Madrid, Spain, 9 - 11 May 2016

- VIII. **XMM Newton Observations of TW PIC in comparison with the Archival SWIFT and RXTE data**
BALMAN Ş., Talebpour Sheshvan N., Nabizadeh A.
XMM-Newton: The Next Decade, Madrid, Spain, 9 - 11 May 2016
- IX. **Probing disk truncation in Dwarf Novae and CVs with X-ray variations and comparisons with work on other wavelengths**
Balman Ş.
Frontier Research in Astrophysics, Palermo, Italy, 26 May 2015, pp.1-15
- X. **XIPE: The X-ray imaging polarimetry explorer**
Soffitta P., Bellazzini R., Bozzo E., Burwitz V., Castro-Tirado A. J., Costa E., Courvoisier T., Feng H., Gburek S., Goosmann R., et al.
Space Telescopes and Instrumentation 2016: Ultraviolet to Gamma Ray, Edinburgh, United Kingdom, 26 June - 01 July 2016, vol.9905
- XI. **The LOFT mission concept - A status update**
Feroci M., Bozzo E., Brandt S., Hernanz M., van der Klis M., Liu L. -, Orleanski P., Pohl M., Santangelo A., Schanne S., et al.
Conference on Space Telescopes and Instrumentation - Ultraviolet to Gamma Ray, Edinburgh, Saint Helena, 26 June - 01 July 2016, vol.9905
- XII. **Bazi Nova Gibi sistemlerin X isini Gozlemleri**
Balman Ş.
Ulusal Astronomi Konferansi, Ankara, Turkey, 2 - 04 February 2015, vol.1, pp.261-264
- XIII. **Dissecting accretion and outflows in accreting white dwarf binaries**
de Martino D., Sala G., BALMAN Ş., Hernanz M.
LOFT Collaboration Group Meeting, 8 - 10 July 2014
- XIV. **Inner Disk Structure of Dwarf Novae in the Light of X-ray Observations**
Balman Ş.
Golden Age of Cataclysmic Variables II, Palermo, Italy, 7 - 13 September 2014, vol.2, pp.116-122
- XV. **Pre-outburst Chandra Observation of the Recurrent Nova T Pyxidis in Quiescence**
Balman Ş.
The X-ray Universe 2014, Dublin, Ireland, 16 - 19 June 2014, pp.1-2
- XVI. **On Different Absorption Components in the X-ray Spectra of the Intermediate Polar Systems**
Balman Ş., Okcu B.
The X-ray Universe 2014, Dublin, Ireland, 16 - 19 June 2014, pp.1-8
- XVII. **Phase Resolved X-Ray Spectral Analysis of Intermediate Polars EX Hya and FO Aqr**
Pekon Y., BALMAN Ş.
Conference on Physics at the Magnetospheric Boundary, Geneva, Switzerland, 25 - 28 June 2013, vol.64
- XVIII. **Probing disk structure of dwarf novae and cataclysmic variables using broadband noise**
Balman Ş.
Frontier Research in Astrophysics, FRAPWS 2014, Mondello, Palermo, Italy, 26 - 31 May 2014
- XIX. **The Large Observatory For x-ray Timing**
Feroci M., den Herder J. W., Bozzo E., Barret D., Brandt S., Hernanz M., van der Klis M., Pohl M., Santangelo A., Stella L., et al.
Conference on Space Telescopes and Instrumentation - Ultraviolet to Gamma Ray, Montreal, Canada, 22 - 26 June 2014, vol.9144
- XX. **High Resolution XMM-Newton Data of Nova Outbursts using Warm & Hot Absorber Models**
BALMAN Ş., Pekon Y.
281st Symposium of the International-Astronomical-Union, Padova, Italy, 4 - 08 July 2011, pp.124-125
- XXI. **The X-ray Properties of Cataclysmic Variables**
Balman Ş.
The Golden Age of Cataclysmic Variables I, Palermo, Italy, 4 - 10 September 2011, vol.83, pp.585-593

- XXII. **LOFT - the Large Observatory For x-ray Timing**
 Feroci M., den Herder J. W., Bozzo E., Barret D., Brandt S., Hernanz M., van der Klis M., Pohl M., Santangelo A., Stella L., et al.
 Conference on Space Telescopes and Instrumentation 2012 - Ultraviolet to Gamma Ray, Amsterdam, Netherlands, 1 - 06 July 2012, vol.8443
- XXIII. **Orbital Phase Resolved Spectroscopy of EX Hya Using XMM-NEWTON**
 Pekon Y., BALMAN Ş.
 International Conference on X-Ray Astronomy-2009: Present Status, Multi-Wavelength Approach and Future Perspectives, Bologna, Italy, 7 - 11 September 2009, vol.1248, pp.137-138
- XXIV. **Frequency Resolved Spectroscopy of XB 1323-619 and EXO 0748-676**
 BALMAN Ş.
 International Conference on X-Ray Astronomy-2009: Present Status, Multi-Wavelength Approach and Future Perspectives, Bologna, Italy, 7 - 11 September 2009, vol.1248, pp.135-136
- XXV. **Variations in the dip properties of XB 1254-69 observed with XMM-newton and INTEGRAL**
 Trigo M. D., Parmar A., Boirin L., Motch C., Talavera A., Balman Ş.
 7th Microquasar Workshop: Microquasars and Beyond, MQW 2008, Foca, Izmir, Turkey, 1 - 05 September 2008
- XXVI. **A Study of Broad-Band Noise Characteristics of AXPs and SGRs**
 Balman Ş., Külebi B.
 The X-ray Universe 2008, Granada, Spain, 27 - 30 May 2008, pp.1-2
- XXVII. **The broad-band noise characteristics of selected AXPs and SGRs: Probing the magnetar coronae**
 Külebi B., Balman Ş.
 40 Years Of Pulsars: Millisecond Pulsars, Magnetars and More, Montreal, Canada, 12 - 17 August 2007, vol.983, pp.283-285
- XXVIII. **A study of selected low-mass X-ray binary dip sources observed with INTEGRAL**
 Balman Ş.
 40 Years Of Pulsars: Millisecond Pulsars, Magnetars and More, Montreal, Canada, 12 - 17 August 2007, vol.983, pp.530-532
- XXIX. **The inclination angle and mass of the black hole in XTE J1118+480**
 Gelino D. M., BALMAN Ş., Kiziloglu U., Yilmaz A., Kalemci E., Tomsick J. A.
 Conference on Nature and Evolution of X-Ray Binaries in Diverse Environments, Florida, United States Of America, 28 October - 02 November 2007, vol.1010, pp.82-83
- XXX. **An optical search for Supernova Remnants in NGC 3184 and NGC 2903**
 Sonbas E., AKYÜZ A., BALMAN Ş., Cekmecelioglu E.
 6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.135-136
- XXXI. **Time-averaged broad-band spectra of the dipping low-mass X-ray binaries observed with INTEGRAL**
 Balman Ş., Parmar A., Sidoli L., Paizis A., Diaz Trigo M., Oosterbroek T.
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- XXXII. **Optical search for supernova remnants in two-spiral galaxies**
 AKYÜZ A., Balman Ş., Bhattacharya D., Sonbas E., Cekmecelioglu E.
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- XXXIII. **A study of temporal characteristics of selected cataclysmic variables : The broad-band noise structure between 2-20 keV**
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- XXXIV. **CCD photometry of V2275 Cygni (N Cyg 2001 No.2) in 2002-2003**
 BALMAN Ş., YILMAZ A., Retter A., Saygac T., ESENOGLU H. H.
 Conference on Astrophysics of Cataclysmic Variables and Related Objects, Strasbourg, France, 11 - 16 July 2004, vol.330, pp.431-432
- XXXV. **Discovery of localized non-thermal X-ray emission from the nova remnant of GK Persei (1901)**
 BALMAN Ş.

Conference on Astrophysics of Cataclysmic Variables and Related Objects, Strasbourg, France, 11 - 16 July 2004, vol.330, pp.433-434

XXXVI. The CHANDRA data of the classical nova RR Pic (1925): A possible magnetic cataclysmic variable candidate

BALMAN Ş., Kupcu-Yoldas A.

IAU Colloquium 190 Workshop on Magnetic Cataclysmic Variables, Cape-Town, South Africa, 8 - 13 December 2002, vol.315, pp.172-173

XXXVII. The discovery of a Transient magnetar

Ibrahim A., Markwardt C., Swank J., Ransom S., Roberts M., Kaspi V., Woods P., Safi-Harb S., BALMAN Ş., Parke W., et al.

Conference on X-Ray Timing 2003 - Rossi and Beyond, Cambridge, Canada, 3 - 05 November 2003, vol.714, pp.294-297

XXXVIII. CCD Photometry of Selected CVs with the Tug 1.5M Telescope

Balman Ş.

White Dwarfs : Galactic and Cosmological Probes, Sydney, Australia, 13 - 26 July 2003, vol.332, pp.233-242

XXXIX. On the possibility of detecting remnants of novae in the X-rays and recovering the remains of an explosion after a century

BALMAN Ş.

International Conference on Classical Nova Explosions, SITGES, Spain, 20 - 24 May 2002, vol.637, pp.365-371

XL. Analysis of the ASCA data of the intermediate polar YY Dra

Yazgan E., Balman Ş.

The Physics of Cataclysmic Variables and Related Objects, Göttingen, Germany, 13 August 2001, pp.177-179

XLI. Chandra Observation of the Shell of Classical Nova Persei 1901 (GK Per): A Miniature Supernova Remnant

Balman Ş.

The High Energy Universe at Sharp Focus: Chandra Science, Minnesota, United States Of America, 16 - 18 July 2001, vol.262, pp.253-263

XLII. The CHANDRA observation of the first resolved and detected classical nova shell in X-rays: The shell of Nova Persei 1901 (GK Per)

BALMAN Ş.

X-Ray Astronomy 2000 Conference, MONDELLO, Italy, 4 - 09 September 2000, vol.234, pp.269-274

XLIII. Application of the hot white dwarf atmosphere models to the X-ray data of classical novae

BALMAN Ş.

Conference of the NATO-Advanced-Study-Institute on Variable Stars as Essential Astrophysical Tools, CESME, Turkey, 31 August - 10 September 1998, vol.544, pp.773-782

XLIV. The reanalysis of the ROSAT data of classical nova V1974 Cygni 1992

BALMAN Ş., Ogelman H., Krautter J.

Wild Stars in the Old West - 13th North American Workshop on Cataclysmic Variables and Related Objects, Wyoming, United States Of America, 14 - 19 June 1997, vol.137, pp.400-405

XLV. The ROSAT observations of classical novae

Orio M., Ogelman H., BALMAN Ş.

158th Colloquium of the International-Astronomical-Union on Cataclysmic Variables and Related Objects, KEELE, ENGLAND, 26 - 30 June 1995, vol.208, pp.289

XLVI. ROSAT observation of the old classical nova CP PUPPIS

BALMAN Ş., Orio M., Ogelman H.

Conference on Cataclysmic Variables, ABANO TERME, Italy, 20 - 24 June 1994, vol.205, pp.469

Supported Projects

Balman Ş., Project Supported by Public Organizations in Other Countries, X-ray Line Diagnostics and Characterization of

the Advective Hot Flow in Nonmagnetic Nova-like BZ Cam, 2023 - 2025

Balman Ş., Project Supported by Public Organizations in Other Countries, Spectral and Temporal Studies of a New Cataclysmic Variable Detected during the Scan period of Spektr-RG Mission, 2021 - 2022

Balman Ş., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Doğu Anadolu Gözlemevi Projesi, 2012 - 2020

Balman Ş., Project Supported by Public Organizations in Other Countries, Characterization of the X-ray Emission and the Boundary Layers in Nova-like cataclysmic Variables, 2016 - 2018

Balman Ş., TUBITAK Project, Amanyetik Katakлизмik Değişken Sistemlerin X-ışını İncelemeleri ve Sınır Katmanı Teorisinin Gözlemsel Araştırmaları, 2015 - 2017

Balman Ş., Project Supported by Higher Education Institutions, Bayes İstatistik Tekniğiyle Pulsarların ve Beyaz Cucelerin Güç Spektrumlarının Oluşturulması, 2016 - 2016

Balman Ş., TUBITAK Project, Yakın Galaksilerde Çoklu Dalga Boyu Gözlemleri ile Yüksek Isıya Sahip Kaynakların Belirlenmesi, 2013 - 2016

Balman Ş., Project Supported by Public Organizations in Other Countries, Probing the Boundary Layers of Accreting White Dwarfs in Nova-Like Cataclysmic Variables, 2013 - 2014

Balman Ş., Universities of Other Countries Supported Project, Extended X-ray Emission from the Recurrent Nova T Pyxidis, 2011 - 2012

Balman Ş., TUBITAK Project, İlk Soğurgan Etkilerinin Katakлизмik Değişken Sistemlerde ve X Işını Çift Yıldız Sistemlerinde İncelenmesi, 2009 - 2012

Balman Ş., Project Supported by Private Organizations in Other Countries, A Search for Photo ionized Absorbers in High Mass X ray Binary 4U 1907+09, 2008 - 2010

Balman Ş., FP6 Project, FP6 The Study of Neutron Stars and Their Environments, 2006 - 2010

Balman Ş., TUBITAK Project, Bileşenlerinden Biri Sıkı Cisim Olan Çift Yıldız Sistemlerdeki Disk Yapılarının İncelenmesi, 2006 - 2009

Balman Ş., Project Supported by Private Organizations in Other Countries, A Study of the Warm Absorber in the Dipping LMXB 4U 1254-690 Using Broad-Band INTEGRAL Observations, 2007 - 2008

Balman Ş., Project Supported by Public Organizations in Other Countries, Multiwavelength Target of Opportunity observations of a bright nova in outburst, 2003 - 2004

Balman Ş., Universities of Other Countries Supported Project, Studying the Nova shells in the X ray wavelengths I The shell of GK Persei 1991, 2000 - 2002

Memberships / Tasks in Scientific Organizations

International Astronomical Union, Associate Member, 2012 - Continues, United States Of America

European Astronomical Society, Member, 2009 - Continues, Switzerland

Turkish Physical Society, Associate Member, 2005 - Continues, Turkey

Türk Astronomi Derneği, Associate Member, 2001 - Continues, Turkey

COSPAR (Committee on Space Research), National Advisory Committee member , Member of Advisory Board, 1998 - Continues, France

Scientific Refereeing

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, SCI Journal, January 2024

NEW ASTRONOMY, SCI Journal, April 2023

ASTRONOMY AND ASTROPHYSICS, SCI Journal, February 2023

PUBLICATION OF THE ASTRONOMICAL SOCIETY OF JAPAN, Journal Indexed in SCI-E, February 2022

Project Supported by Public Organizations in Other Countries, COST, Belgium, January 2022

ASTRONOMY AND ASTROPHYSICS, SCI Journal, December 2021

PUBLICATION OF THE ASTRONOMICAL SOCIETY OF JAPAN, Journal Indexed in SCI-E, December 2021

NATURE COMMUNICATIONS, SCI Journal, October 2021

NATURE COMMUNICATIONS, SCI Journal, July 2021
ASTROPHYSICAL JOURNAL, SCI Journal, June 2021
ASTROPHYSICAL JOURNAL, SCI Journal, May 2021
ASTROPHYSICAL JOURNAL, SCI Journal, March 2021
ASTROPHYSICAL JOURNAL, SCI Journal, March 2021
NEW ASTRONOMY, SCI Journal, November 2020

Tasks In Event Organizations

Balman Ş., Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions, in the 45. GA of COSPAR, Scientific Congress, Busan, South Korea, Temmuz 2024
Balman Ş., RS Oph and the recurrent nova phenomenon -- EAS 2022 annual Meeting, Scientific Congress, Valencia, Spain, Temmuz 2022
Balman Ş., Novae, Cataclysmic Variables and related systems: Observational and theoretical Challenges in the 2020 Era, in the 42. GA of COSPAR, Scientific Congress, California, United States Of America, Temmuz 2018
Balman Ş., Yerli S. K., UAK 2015 ---19. Ulusal Astronomi Konferansı, Scientific Congress, Ankara, Turkey, Şubat 2015
Balman Ş., Outflows to accretion from white dwarfs to supermassive black holes, in the 40. GA of COSPAR , Scientific Congress, Moscow, Russia, Ağustos 2014
Balman Ş., IAUS 281-- Binary Paths to explosions of type Ia Supernovae, Scientific Congress, Padua, Italy, Temmuz 2011
Balman Ş., UAK 2010-- 17. Ulusal Astronomi Konferansı, Scientific Congress, Adana, Turkey, Eylül 2010
Balman Ş., The electromagnetic spectrum of neutron stars, NATO ASI, Science / Art Camp or Summer School Organization, Muğla, Turkey, Haziran 2004

Metrics

Publication: 100
Citation (WoS): 1019
Citation (Scopus): 1079
H-Index (WoS): 15
H-Index (Scopus): 14

Invited Talks

Advective hot flows in CVs and spectral-timing studies in the high accretion rate regime, Conference, Golden age of cataclysmic variables and related objects VI, Italy, September 2023
THESEUS Science on Time-domain Studies of Compact Object Binaries, Conference, Multifrequency Behaviour of High Energy Cosmic Sources XIV, Italy, June 2023
RS Ophiuchi and the recurrent nova phenomenon--Lunch Panel, Conference, European Astronomical Society (EAS 2022 annual meeting), Spain, June 2022
Beyaz Cüce X-ışın Çiftlerinde Madde Aktarımı ve Disk Yapısı, Workshop, Ege Üniversitesi, Turkey, February 2021
X-ışın Çiftlerinin Karakteristiklerine Bir Bakış, Workshop, Çukurova Üniversitesi, Turkey, January 2020
Observational Aspects of CVs with disk truncations based on X-ray observations, Conference, European Astronomical Society -- EAS 2019 Annual Meeting, France, June 2019
Disk Structure in CVs, Conference, Accretion Processes in Cosmic Sources II -- RAS-- Russian Academy of Sciences, Russia, September 2018
X-ray Observations: a useful tool for physics of accretion in AWBs, Seminar, Istanbul Technical University, Turkey, November 2017
X-ray observations: A useful tool for physics of accretion in CVs, Conference, Golden age of cataclysmic variables and

related objects IV, Italy, September 2017

Reanalysis of high resolution XMM-Newton data of 2491 Cygni using hot/warm absorber models, Conference, HERNANZFEST -- From cooling to explosion: The physics of WDs ; IEEC, ICE/UPC, Barcelona, Spain, Spain, June 2017

Accretion and Outflows in accreting WD Binaries, Seminar, Istanbul University, Turkey, May 2017

New prospects for accretion in WD binaries , Seminar, Bogazici University, Turkey, November 2016

Accretion and Outflows in WD Binaries, Conference, Accretion Processes in Cosmic Sources I -- Russian Academy of Sciences, Russia, September 2016

Yüksek Enerji Astrofizikinde kataklismik değişkenler ve Nova Patlamaları, Workshop, Istanbul Bilgi University, Turkey, April 2016

The recurrent Nova T Pyx : A Review, Conference, Golden Age of Katakismik Variables and Related Objects III -- INAF, Italy, Italy, September 2015

Yüksek Enerji Astrofizikinde kataklismik Değişkenler ve Nova patlamaları, Seminar, Mimar Sinan Fine Arts University, Turkey, April 2015

Inner disk structure of dwarf novae in the light of X-ray observations, Conference, Golden Age of Cataclysmic Variables II -- INAF, Italy, Italy, September 2013

X-ray Observations of Dwarf Novae in Quiescence and Outburst, Conference, Nicolaus Copernicus Astronomical Center, Poland, September 2012

Kataklismik Değişkenlerin X-ışın Özellikleri, Seminar, Cukurova University, Turkey, May 2012

X-ray Properties of Cataclysmic Variables, Conference, Golden Age of Cataclysmic variables I, -- INAF, Italy , Italy, September 2011

Astrofizikte Nova patlamalarının Yüksek Enerjilerde İncelenmesi, Conference, Cukurova University, Turkey, September 2010

The Spectral Characteristics of Low-mass X-ray Binary Dippers , Seminar, University of Warwick, England, November 2008

The X-ray Observations of Novae, Seminar, Utrecht University, Netherlands, September 2006

The X-ray Observations of Classical Novae and the First Resolved and Detected Nova remnant GK Per, Seminar, ESA-ESTEC (European Space Agency), Netherlands, April 2006

Yıldız Patlamaları, Seminar, Ataturk University, Turkey, June 2005

Klasik Nova Patlamaları ve X-ışınlarının patlamaları teşhiste rolü, Seminar, Istanbul Technical University, Turkey, May 2004

CCD İndirgeme Teknikleri, optik data analizi ve teknikleri, Workshop, Middle East Technical University, Turkey, June 2002

Bir Klasik Nova Kabuğundan İlk Işınlara ve Nova Persei 1901, Seminar, Cukurova University, Turkey, May 2002

The Nova shell of GK Persei (1901) : A miniature supernova remnant , Conference, Astronomical Society of the Pacific, ASP; 113. GA of ASP , United States Of America, May 2001

X-ray spectral evolution of Classical Novae, Workshop, Sabanci University, Turkey, April 2000

The recent Developments in the X-ray Observations of Classical Novae, Seminar, Rikkyo University, Japan, July 1998

Awards

Balman Ş., TUBA GEBİP, Türkiye Bilimler Akademisi, June 2003

Non Academic Experience

University of Warwick

Non-profit Organisation, European Space Agency, RSSD (Research and Science Division)

Avrupa Uzay Ajansı ESA-ESTEC Hollanda

University of Wisconsin-Madison

Bogazici University