

Prof.Dr. ALTAN BAYKAL

Kişisel Bilgiler

İş Telefonu: [+90 210 507 7](tel:+902105077)

Fax Telefonu: [+90 210 509 9](tel:+902105099)

E-posta: altan@metu.edu.tr

Web: <https://avesis.metu.edu.tr/altan>

Posta Adresi: 06800

Uluslararası Araştırmacı ID'leri

ScholarID: 14LE_RwAAAAJ

ORCID: 0000-0003-4747-5129

Publons / Web Of Science ResearcherID: AAZ-9427-2020

ScopusID: 57209723426

Yoksis Araştırmacı ID: 11925

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Türkiye 1985 - 1991

Yaptığı Tezler

Doktora, Torque noise models for x-ray binaries, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, 1991

Araştırma Alanları

Fizik, Astronomi ve Astrofizik, Temel Astronomi ve Astrofizik: Enstrümantasyon, Teknikler ve Astronomik gözlemler, Yıldız Sistemleri;Yıldızlararası ortam;galaktik ve galaksi dışı nesneler ve sistemler;evren, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, 2001 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2003

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1996 - 1998

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1998

Yönetilen Tezler

BAYKAL A., Investigating the effects of outbursts on pulsars, the case of 2S 1417-624, Yüksek Lisans, Ö.CAN(Öğrenci), 2022

BAYKAL A., Spectral analysis of an ultraluminous x-ray source swift J0243.6+6124, Yüksek Lisans, G.ISLAMOV(Öğrenci), 2021

BAYKAL A., The pulse frequency noise of magnetars and persistent accretion powered pulsars, Doktora, D.SERİM(Öğrenci), 2021

BAYKAL A., Pulse timing studies of X-ray binaries: GX 1+4, Swift J0513.4-6547, X Persei and SXP 1062, Doktora, M.MİRAÇ(Öğrenci), 2019

BAYKAL A., THE SPECTRAL AND TEMPORAL PROPERTIES OF MAXI J1409-619, Yüksek Lisans, Ç.KEREM(Öğrenci), 2019

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BAYKAL A., X-ray analysis of high mass x-ray binary pulsars, Doktora, Ş.ŞAHİNER(Öğrenci), 2015

BAYKAL A., Pulse phase resolved x-ray spectroscopy of four accretion powered millisecond pulsars, Yüksek Lisans, S.MERVE(Öğrenci), 2014

BAYKAL A., Investigation of quasi-periodic noise features in X-Persei, Yüksek Lisans, Z.ACUNER(Öğrenci), 2014

BAYKAL A., Timing properties of recently discovered soft gamma repeaters, Yüksek Lisans, M.MİRAÇ(Öğrenci), 2012

BAYKAL A., Viscous time scale in accreting powered pulsars and anomalous X-ray pulsars, Yüksek Lisans, B.İÇDEM(Öğrenci), 2011

BAYKAL A., X-ray and optical observations of high mass x-ray binaries, Doktora, E.BEKLEN(Öğrenci), 2010

BAYKAL A., X-ray spectral and timing studies of the high mass X-ray binary pulsar 4U 1907+09, Yüksek Lisans, Ş.ŞAHİNER(Öğrenci), 2009

BAYKAL A., X-ray and timing properties of anomalous X-ray pulsar 1e 2259+586, Yüksek Lisans, S.ŞAŞMAZ(Öğrenci), 2007

BAYKAL A., RXTE and chandra observations of galactic microquasars GRS 1915+105 and GRO J1655-40, Yüksek Lisans, G.ESRA(Öğrenci), 2006

BAYKAL A., Galaktik mikrokuazarlar GRO J1655-40 ve GRS 1915+105'in Chandra ve RXTE gözlemleri, Yüksek Lisans, G.Esra(Öğrenci), 2006

BAYKAL A., The red noise power density estimation techniques and application to the source SAX J2103.5 + 4545, Yüksek Lisans, A.EMRE(Öğrenci), 2004

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Timing analysis of Swift J0243.6+6124 with NICER and Fermi/GBM during the decay phase of the 2017-2018 outburst**
Serim M. M., Dönmez Ç. K., Serim D., Ducci L., Baykal A., Santangelo A.
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- II. **Pulse frequency fluctuations of persistent accretion powered pulsars**
Serim D., Serim M. M., Baykal A.
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- III. **Timing and spectral analysis of 2S 1417-624 during its 2018 outburst**
Serim M. M., Ozudogru O. C., Donmez Ç. K., Sahiner S., Serim D., Baykal A., Inam S. C.
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- IV. **Comprehensive analysis of the transient X-ray pulsar MAXI J1409 619**
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- V. **Pulse frequency fluctuations of magnetars**
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- VI. **Dense matter with eXTP**
Watts A. L., Yu W., Poutanen J., Zhang S., Bhattacharyya S., Bogdanov S., Ji L., Patruno A., Riley T. E., Bakala P., et al.

- SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, cilt.62, sa.2, 2019 (SCI-Expanded)
- VII. **Observatory science with eXTP**
in't Zand J. J. M., Bozzo E., Qu J., Li X., Amati L., Chen Y., Donnarumma I., Doroshenko V., Drake S. A., Hernanz M., et al.
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- VIII. **Accretion in strong field gravity with eXTP**
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- IX. **Discovery of a glitch in the accretion-powered pulsar SXP 1062**
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- X. **Comprehensive timing and X-ray spectral analysis of GX 1+4**
Serim M. M., Sahiner S., Cerri-Serim D., İNAM S. Ç., BAYKAL A.
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- XI. **RXTE and Swift Observations of SWIFT J0513.4-6547**
Sahiner S., Serim M. M., BAYKAL A., İNAM S. Ç.
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- XII. **Timing studies of X Persei and the discovery of its transient quasi-periodic oscillation feature**
Acuner Z., İNAM S. Ç., Sahiner S., Serim M. M., BAYKAL A., Swank J.
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- XIII. **RXTE and Swift observations of SWIFT J1729.9-3437**
Sahiner S., İNAM S. Ç., Serim M. M., BAYKAL A.
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- XIV. **A comprehensive study of RXTE and INTEGRAL observations of the X-ray pulsar 4U 1907+09**
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- XV. **RXTE timing analysis of the anomalous X-ray pulsar 1E 2259+586**
İcdem B., BAYKAL A., İNAM S. Ç.
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- XVI. **Timing and X-ray spectral features of Swift J1626.6-5156**
İcdem B., İNAM S. Ç., BAYKAL A.
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- XVII. **Viscous timescale in high mass X-ray binaries (Research Note)**
İcdem B., BAYKAL A.
ASTRONOMY & ASTROPHYSICS, cilt.529, 2011 (SCI-Expanded)
- XVIII. **Analysis of RXTE-PCA Observations of SMC X-1**
İNAM S. Ç., BAYKAL A., Beklen E.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, cilt.403, sa.1, ss.378-386, 2010 (SCI-Expanded)
- XIX. **THE ORBITAL PERIOD OF SWIFT J1626.6-5156**
BAYKAL A., GÖĞÜŞ E., İNAM S. Ç., Belloni T.
ASTROPHYSICAL JOURNAL, cilt.711, sa.2, ss.1306-1309, 2010 (SCI-Expanded)
- XX. **Optical and X-ray outbursts of Be/X-ray binary system SAX J2103.5+4545**
Kiziloglu U., Ozbilgen S., Kiziloglu N., BAYKAL A.
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- XXI. **RXTE-PCA observations of XMMU J054134.7-682550**
İNAM S. Ç., Townsend L. J., McBride V. A., BAYKAL A., Coe M. J., Corbet R. H. D.
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- XXII. **Recent torque reversal of 4U 1907+09**
İNAM S. Ç., Sahiner S., BAYKAL A.
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- XXIII. **Recent RXTE/ASM and ROTSEIIId observations of EXO 2030+375 (V2246 Cygni)**

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- XXIV. Optical variabilities in the Be/X-ray binary system - GRO J2058+42 (CXOU J205847.5+414637)**
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- XXV. Timing studies on RXTE observations of SAX J2103.5+4545**
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- XXVI. Optical observations of the Be/X-ray transient system KS 1947+300**
Kiziloglu U., Baykal A., Kiziloglu N.
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- XXVII. Pulsar braking indices, glitches and energy dissipation in neutron stars**
Alpar M. A., Baykal A.
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- XXVIII. Evidence of a change in the long-term spin-down rate of the X-ray pulsar 4U 1907+09**
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- XXIX. Recent timing studies on RXTE observations of 4U 1538-52**
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- XXX. ROTSE observations of the young cluster IC 348**
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- XXXI. X-ray spectral evolution of Her X-1 in a low state and the following short high state**
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- XXXII. Discovery of a soft spectral component and transient 22.7 second quasi-periodic oscillations of SAX J2103.5+4545**
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- XXXIII. X-ray flux related timing and spectral features of 2S 1417-62**
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- XXXIV. The first hours of the optical afterglow from the cosmic gamma-ray burst 030329**
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- XXXVI. Hydrothermal and microwave synthesis of boron phosphate, BPO(4)**
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- XXXVII. Discovery of the orbit of the transient X-ray pulsar SAX J2103.5+4545**
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ASTROPHYSICAL JOURNAL, cilt.544, sa.2, 2000 (SCI-Expanded)
- XXXVIII. Differences between the two anomalous X-ray pulsars: variations in the spin-down rate of 1E 1048.1-5937 and an extended interval of quiet spin-down in 1E 2259+586**
Baykal A., Strohmayer T., Swank J., Alpar M., Stark M.
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- XXXIX. **X-ray powder diffraction and IR study of NaMg(H₂O)(2)[BP208]center dot H₂O and NH₄Mg(H₂O)(2)[BP208]center dot H₂O**
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- XL. **Short-term pulse frequency fluctuations of OAO 1657-415 from RXTE observations**
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- XLI. **Post-glitch RXTE-PCA observations of the Vela pulsar**
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- XLII. **X-ray flux and pulse frequency changes of three high mass X-ray binary pulsars: Vela X-1, GX 301-2 and OAO 1657-415**
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- XLIII. **The timing noise of PSR 0823+26, 1706-16, 1749-28, 2021+51 and the anomalous braking indices**
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- XLIV. **Spin down and oscillations in 4U 1907+09: a retrograde disk?**
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- XLVI. **Recent X-ray measurements of the accretion-powered pulsar 4U 1907+09**
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- XLVII. **The spectrum and dips of RE 0751+14: A joint evaluation of ROSAT and ASCA archival data**
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- XLVIII. **The torque and X-ray flux changes of OAO 1657-415**
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- XLIX. **Low frequency flickering of TT Arietis: Hard and soft X-ray emission region**
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- LI. **EXPECTANCY OF LARGE PULSAR GLITCHES - A COMPARISON OF MODELS WITH THE OBSERVED GLITCH SAMPLE**
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- LII. **A STATISTICAL STUDY OF THE 164 DAY CLOCK NOISE OF THE RELATIVISTIC BEAMS IN SS-433**
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- LIII. **THE NOISE IN THE 35-D CYCLE OF HER X-1**
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- LIV. **AN EMPIRICAL TORQUE NOISE AND SPIN-UP MODEL FOR ACCRETION-POWERED X-RAY PULSARS**
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- LV. **A SHOT NOISE MODEL FOR A 2-COMPONENT NEUTRON-STAR**
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Diger Dergilerde Yayınlanan Makaleler

- I. **Probing stellar winds and accretion physics in high mass X ray binaries and ultra luminous X ray sources with LOFT**
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- II. **Long term optical observations of Be X Ray binary system V0332 53**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **X Ray Timing Properties of GX 1 4**
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- II. **Timing Noise of Magnetars**
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- III. **RXTE an Swift Observations of SWIFT J0513 4 6547**
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- IV. **The Large Observatory For x ray Timing**
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- V. **Noise Strength Estimates of Three SGPs: Swift J1822.3-1606, SGR J1833-0832 and Swift J1834.9-0846**
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- VI. **Pulse Profiles of Swift J1626.6+5156**
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- VIII. **Accretion powered X-ray pulsars**
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- IX. **Expectancy of large pulsar glitches**
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Desteklenen Projeler

BAYKAL A., BALMAN Ş., Yükseköğretim Kurumları Destekli Proje, Bayes İstatistik Tekniğiyle Pulsarların ve Beyaz Cücelerin Güç Spektrumlarının Oluşturulması, 2016 - 2016

Metrikler

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H-İndeks (Scopus): 15

Ödüller

Baykal A., Mustafa Parlar Bilim Ödülü, Mustafa Parlar Vakfı, Aralık 2019

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Akademi Dışı Deneyim

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