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

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BAYKAL A., 4u 0142+61, 1e 2259+586, 1rxs j170849.0_400910 ve 1e 1841_045 anormal x-ışını atarcalarının x-ışını zamanlama özellikleri, Yüksek Lisans, D.Çerri(Öğrenci), 2015

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- 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
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- BAYKAL A., Galaktik mikrokuazarlar GRO J1655-40 ve GRS 1915+105'in Chandra ve RXTE gözlemleri, Yüksek Lisans, G.Esra(Öğrenci), 2006
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- 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. **Comprehensive analysis of the transient X-ray pulsar MAXI J1409 619**
Donmez Ç. K. , Serim M. M. , Inam S. C. , Sahiner S., Serim D., Baykal A.
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- II. **Pulse frequency fluctuations of magnetars**
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- III. **Accretion in strong field gravity with eXTP**
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- IV. **Observatory science with eXTP**
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- VI. **Discovery of a glitch in the accretion- powered pulsar SXP 1062**
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- VII. **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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- VIII. **RXTE and Swift Observations of SWIFT J0513.4-6547**
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- IX. **Timing studies of X Persei and the discovery of its transient quasi-periodic oscillation feature**
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- X. **RXTE and Swift observations of SWIFT J1729.9-3437**
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- XI. **A comprehensive study of RXTE and INTEGRAL observations of the X-ray pulsar 4U 1907+09**
Sahiner S., İNAM S. Ç. , BAYKAL A.
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- XII. **RXTE timing analysis of the anomalous X-ray pulsar 1E 2259+586**
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- XIII. **Timing and X-ray spectral features of Swift J1626.6-5156**
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- XIV. **Viscous timescale in high mass X-ray binaries (Research Note)**
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- XV. **Analysis of RXTE-PCA Observations of SMC X-1**
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- XVI. **THE ORBITAL PERIOD OF SWIFT J1626.6-5156**
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ASTROPHYSICAL JOURNAL, cilt.711, sa.2, ss.1306-1309, 2010 (SCI İndekslerine Giren Dergi)
- XVII. **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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- XVIII. **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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- XIX. **Recent torque reversal of 4U 1907+09**
İNAM S. Ç. , Sahiner S., BAYKAL A.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, cilt.395, sa.2, ss.1015-1020, 2009 (SCI İndekslerine Giren Dergi)
- XX. **Recent RXTE/ASM and ROTSEIII observations of EXO 2030+375 (V2246 Cygni)**
BAYKAL A., Kiziloglu U., Kiziloglu N., Beklen E., Oezbey M.
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- XXI. **Optical variabilities in the Be/X-ray binary system - GRO J2058+42 (CXOU J205847.5+414637)**
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- XXII. **Timing studies on RXTE observations of SAX J2103.5+4545**
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- XXIII. **Optical observations of the Be/X-ray transient system KS 1947+300**
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- XXIV. **Pulsar braking indices, glitches and energy dissipation in neutron stars**
Alpar M. A., Baykal A.
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- XXVI. **Recent timing studies on RXTE observations of 4U 1538-52**
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- XXVIII. **X-ray spectral evolution of Her X-1 in a low state and the following short high state**
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- XXX. **X-ray flux related timing and spectral features of 2S 1417-62**
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- XXXI. **The first hours of the optical afterglow from the cosmic gamma-ray burst 030329**
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- XXXIII. **Hydrothermal and microwave synthesis of boron phosphate, BPO(4)**
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- XXXV. **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**
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- XXXVI. **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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- XXXVII. **Short-term pulse frequency fluctuations of OAO 1657-415 from RXTE observations**
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- XXXVIII. **Post-glitch RXTE-PCA observations of the Vela pulsar**
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- XL. **The timing noise of PSR 0823+26, 1706-16, 1749-28, 2021+51 and the anomalous braking indices**
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- XLI. **Spin down and oscillations in 4U 1907+09: a retrograde disk?**
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- XLIII. **Recent X-ray measurements of the accretion-powered pulsar 4U 1907+09**
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- XLIV. **The spectrum and dips of RE 0751+14: A joint evaluation of ROSAT and ASCA archival data**
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- XLV. **The torque and X-ray flux changes of OAO 1657-415**
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- XLVI. **Low frequency flickering of TT Arietis: Hard and soft X-ray emission region**
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- XLVIII. **EXPECTANCY OF LARGE PULSAR GLITCHES - A COMPARISON OF MODELS WITH THE OBSERVED GLITCH SAMPLE**
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- XLIX. **A STATISTICAL STUDY OF THE 164 DAY CLOCK NOISE OF THE RELATIVISTIC BEAMS IN SS-433**
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- L. **THE NOISE IN THE 35-D CYCLE OF HER X-1**
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- LI. **AN EMPIRICAL TORQUE NOISE AND SPIN-UP MODEL FOR ACCRETION-POWERED X-RAY PULSARS**

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LII. **A SHOT NOISE MODEL FOR A 2-COMPONENT NEUTRON-STAR**

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Diğer Dergilerde Yayınlanan Makaleler

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I. **X Ray Timing Properties of GX 1 4**

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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 SGRs: Swift J1822.3-1606, SGR J1833-0832 and Swift J1834.9-0846**

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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

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Atıflar

Toplam Atıf Sayısı (WOS):735

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