

## Prof. İHSAN YILMAZ

### Personal Information

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### Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Turkey 1993 - 1997

Post Graduate, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Turkey 1991 - 1993

Under Graduate, Canakkale Onsekiz Mart University, Fen Fakültesi, Astronomi Ve Uzay Bilimleri-Matematik, Turkey 1987 - 1991

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Computer Sciences, Equipment, Quantum Calculation, Physics, General Physics, Relativity and Gravitation, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2013 - Continues

### Advising Theses

YILMAZ İ., Kuantum Temelli Görüntü İşleme, Doctorate, E.ŞAHİN(Student), 2019

YILMAZ İ., Kuantum bilgisayarları ve bazı uygulamalar, Doctorate, M.ŞAHİN(Student), 2014

YILMAZ İ., Karanlık madde ve karanlık enerji çözümleri, Doctorate, G.DEMİREL(Student), 2009

YILMAZ İ., Kuark gluon maddenin uzay zaman geometrisi, Doctorate, C.AKTAŞ(Student), 2008

YILMAZ İ.,  $f(R)$  gravite teorileri, Post Graduate, İ.ŞENER(Student), 2008

YILMAZ İ., Kurt delikleri, karanlık enerji ve madde ilişkileri, Doctorate, M.AYGÜN(Student), 2007

YILMAZ İ., Erken evrendeki bazı topolojik yapıların oluşumu ve gravitasyonel alanları, Post Graduate, M.AYGÜN(Student), 2005

YILMAZ İ., Kara delik çözümleri, Post Graduate, T.İKBAL(Student), 2004

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

#### I. QRMA: quantum representation of multichannel audio

Şahin E., Yılmaz İ.

QUANTUM INFORMATION PROCESSING, vol.18, 2019 (Journal Indexed in SCI)

- II. **Some information from thermodynamic curvature of Chaplygin gas**  
Turkgenc E., YILMAZ İ.  
MODERN PHYSICS LETTERS A, vol.34, no.23, 2019 (Journal Indexed in SCI)
- III. **A novel quantum steganography algorithm based on LSBq for multi-wavelength quantum images**  
Şahin E., Yilmaz İ.  
QUANTUM INFORMATION PROCESSING, vol.17, 2018 (Journal Indexed in SCI)
- IV. **Teleparallel energy-momentum distribution of various black hole and wormhole metrics**  
Aygün S., Baysal H., Aktas C., Yilmaz I., Sahoo P. K., Tarhan I.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.33, no.30, 2018 (Journal Indexed in SCI)
- V. **QRMW: quantum representation of multi wavelength images**  
Şahin E., Yilmaz İ.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, pp.768-779, 2018 (Journal Indexed in SCI)
- VI. **Strange quark matter solutions for Marder's universe in  $f(R, T)$  gravity with  $\Lambda$**   
Aygün S., Aktas C., Yilmaz I.  
ASTROPHYSICS AND SPACE SCIENCE, vol.361, no.12, 2016 (Journal Indexed in SCI)
- VII. **Higher dimensional FRW universe solutions with quark and strange quark matter in creation field cosmology**  
AYGÜN S., AKTAŞ C., YILMAZ İ., Sahin M.  
CHINESE JOURNAL OF PHYSICS, vol.54, no.5, pp.810-819, 2016 (Journal Indexed in SCI)
- VIII. **Expanding and nonexpanding conformal wormholes in scalar-tensor theory**  
ULU DOĞRU M., YILMAZ İ.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.24, no.8, 2015 (Journal Indexed in SCI)
- IX. **Quark and strange quark matter in  $f(R)$  gravity for Bianchi type I and V space-times**  
Yilmaz I., BAYSAL H., AKTAŞ C.  
GENERAL RELATIVITY AND GRAVITATION, vol.44, no.9, pp.2313-2328, 2012 (Journal Indexed in SCI)
- X. **Is the universe homogeneous and isotropic in the time when quark-gluon plasma exists?**  
AKTAŞ C., YILMAZ İ.  
GENERAL RELATIVITY AND GRAVITATION, vol.43, no.6, pp.1577-1591, 2011 (Journal Indexed in SCI)
- XI. **Energy-momentum distributions of Hawking wormholes**  
Aygün M., YILMAZ İ.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.3, pp.707-721, 2008 (Journal Indexed in SCI)
- XII. **Reply to comments on 'Five-dimensional cosmological model with variable  $g$  and  $\Lambda$ '**  
Baysal H., Yilmaz I.  
CHINESE PHYSICS LETTERS, vol.25, no.1, pp.352, 2008 (Journal Indexed in SCI)
- XIII. **Plagiarism? No, we're just borrowing better English**  
Yilmaz I.  
NATURE, vol.449, no.7163, pp.658, 2007 (Journal Indexed in SCI)
- XIV. **The Moller energy complexes of various wormholes in general relativity and Teleparallel gravity**  
Aygün M., Yilmaz I.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.46, no.8, pp.2146-2157, 2007 (Journal Indexed in SCI)
- XV. **Five-dimensional cosmological model with variable  $G$  and  $\Lambda$**   
Baysal H., Yilmaz I.  
CHINESE PHYSICS LETTERS, vol.24, no.8, pp.2185-2188, 2007 (Journal Indexed in SCI)
- XVI. **Edtergy-momentum problem in general relativity and tele-parallel gravity for string and domain wall**  
Aygün M., Yilmaz I.  
ACTA PHYSICA POLONICA B, vol.38, no.8, pp.2497-2511, 2007 (Journal Indexed in SCI)
- XVII. **Moller energy-momentum complex in general relativity for higher dimensional universes**  
Aygün M., Aygün S., Yilmaz I., Baysal H., Tarhan I.  
CHINESE PHYSICS LETTERS, vol.24, no.7, pp.1821-1824, 2007 (Journal Indexed in SCI)
- XVIII. **Magnetized quark and strange quark matter in the spherical symmetric space-time admitting**

## **conformal motion**

Aktas C., Yilmaz I.

GENERAL RELATIVITY AND GRAVITATION, vol.39, no.6, pp.849-862, 2007 (Journal Indexed in SCI)

- XIX. **The behavior of the strange quark matter in the FRW universes**  
YILMAZ İ., KÜÇÜKARSLAN A., ÖZDER S.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.22, no.12, pp.2283-2291, 2007 (Journal Indexed in SCI)
- XX. **Moller energy complexes of monopoles and textures in general relativity and teleparallel gravity**  
Aygün M., Yilmaz I.  
CHINESE PHYSICS LETTERS, vol.24, no.4, pp.874-877, 2007 (Journal Indexed in SCI)
- XXI. **Energy and momentum of Rigidly Rotating Wormhole space-time**  
Aygün M., Yilmaz I., Aygün S.  
ACTA PHYSICA POLONICA B, vol.37, no.10, pp.2795-2803, 2006 (Journal Indexed in SCI)
- XXII. **String cloud and domain walls with quark matter in 5-D Kaluza-Klein cosmological model**  
Yilmaz I.  
GENERAL RELATIVITY AND GRAVITATION, vol.38, no.9, pp.1397-1406, 2006 (Journal Indexed in SCI)
- XXIII. **Higher-dimensional cosmological models with strange quark matter**  
Yilmaz I., Yavuz A. A.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.15, no.4, pp.477-483, 2006 (Journal Indexed in SCI)
- XXIV. **Topological defect solutions in the spherically symmetric space-time admitting conformal motion**  
Yilmaz I., Aygün M., Aygün S.  
GENERAL RELATIVITY AND GRAVITATION, vol.37, no.12, pp.2093-2104, 2005 (Journal Indexed in SCI)
- XXV. **Strange quark matter attached to the string cloud. in the spherical symmetric space-time admitting conformal motion**  
YAVUZ İ., Yilmaz I., Baysal H.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.14, no.8, pp.1365-1372, 2005 (Journal Indexed in SCI)
- XXVI. **Domain wall solutions in the nonstatic and stationary Godel universes with a cosmological constant - art. no. 103503 (Retracted article. See vol. 77, pg. Nil\_1735, 2008)**  
Yilmaz I.  
PHYSICAL REVIEW D, vol.71, no.10, 2005 (Journal Indexed in SCI)
- XXVII. **Rigidly rotating strange quark stars**  
Yilmaz I., Baysal H.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.14, pp.697-705, 2005 (Journal Indexed in SCI)
- XXVIII. **Spacelike Ricci inheritance vectors in a model of string cloud and string fluid stress tensor**  
Baysal H., Yilmaz I.  
CLASSICAL AND QUANTUM GRAVITY, vol.19, no.24, pp.6435-6443, 2002 (Journal Indexed in SCI)
- XXIX. **Conformal collineations in string cosmology**  
Baysal H., CAMCI U., Tarhan I., Yilmaz I., YAVUZ İ.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.11, no.3, pp.463-469, 2002 (Journal Indexed in SCI)
- XXX. **Rotating string cosmologies with scalar field and heat flux**  
Baysal H., Yilmaz I., Tarhan I.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.10, no.6, pp.935-942, 2001 (Journal Indexed in SCI)
- XXXI. **Timelike and spacelike Ricci collineation vectors in string cosmology**  
Yilmaz I.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.10, no.5, pp.681-690, 2001 (Journal Indexed in SCI)
- XXXII. **Ricci collineations of the Bianchi types I and III, and Kantowski-Sachs spacetimes**  
CAMCI U., Baysal H., Tarhan I., Yilmaz I., YAVUZ İ.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.10, no.5, pp.751-765, 2001 (Journal Indexed in SCI)
- XXXIII. **Generation of Bianchi type V universes filled with a perfect fluid**  
CAMCI U., YAVUZ İ., Baysal H., Tarhan I., Yilmaz I.  
ASTROPHYSICS AND SPACE SCIENCE, vol.275, no.4, pp.391-400, 2001 (Journal Indexed in SCI)
- XXXIV. **Curvature inheritance symmetry in Riemannian spaces with applications to string cloud and string**

## fluids

Yilmaz I., Tarhan I., YAVUZ İ., Baysal H., CAMCI U.

INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.8, no.5, pp.659-668, 1999 (Journal Indexed in SCI)

XXXV. **Inheriting conformal and special conformal killing vectors in string cosmology**

Yavuz I., Yilmaz I.

GENERAL RELATIVITY AND GRAVITATION, vol.29, no.10, pp.1295-1307, 1997 (Journal Indexed in SCI)

XXXVI. **Some exact solutions of string cosmology with heat flux in bianchi type III space-time**

Yavuz I., Yilmaz I.

ASTROPHYSICS AND SPACE SCIENCE, vol.245, no.1, pp.131-138, 1996 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Secure Transmission of 3D-QRMW Quantum Images via Quantum Fourier Transform in Blind Cloud**  
DOĞAN Ö., YILMAZ İ.  
International Journal of Scientific and Technological Research, vol.5, no.5, pp.117-127, 2019 (Refereed Journals of Other Institutions)
- II. **Security of NEQR Quantum Image by Using Quantum Fourier Transform with Blind Trent**  
Şahin E., Yilmaz İ.  
International Journal of Information Security Science, vol.7, no.1, pp.20-25, 2018 (Refereed Journals of Other Institutions)
- III. **Quantum Group Proxy Digital Signature based on Quantum Fourier Transform by Using Blinded and Non Blinded Trent**  
YILMAZ İ.  
International Journal of information security science, vol.6, no.4, pp.79-86, 2017 (Refereed Journals of Other Institutions)
- IV. **The Behaviour of Magnetized Strange Quark Matter on Bianchi V Universe in the Framework of  $f(R,T)$  Theory**  
AYGÜN S., AKTAŞ C., YILMAZ İ.  
Archives of Current Research International, vol.11, no.2, pp.1-8, 2017 (Refereed Journals of Other Institutions)
- V. **Thermodynamics of Phantom Energy in Higher Dimension**  
GÜNAY DEMİREL E. C., YILMAZ İ.  
Balkan Physics Letters, pp.29-37, 2011 (Refereed Journals of Other Institutions)
- VI. **Domain Wall Solutions With Quark Matter In Higher Dimensional Space-Times**  
AKTAŞ C., YILMAZ İ., BAYKAL D., ULU DOĞRU M., GÜNAY DEMİREL E. C.  
AIP Advances, vol.899, no.1, pp.137-138, 2007 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Defining Metadata Model for Quantum Information Theory of Electronic Document Management System**  
YAŞAR C., YILMAZ İ.  
Turkish Physical Society 34. International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, vol.1, pp.227
- II. **Dark Matter And Dark Energy Solutions Using By Observational Evidence**  
Demirel E. C. G., Yilmaz I.  
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- III. **Information Transmission Based on Quantum in Electronic Document System**  
YAŞAR C., YILMAZ İ.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam,

Turkey, 19 - 21 October 2018, pp.506-509

- IV. **RIGIDLY ROTATING GÖDEL TYPE WORMHOLE**  
ULU DOĞRU M., YILMAZ İ.  
TÜRK FİZİK DERNEĞİ 32. ULUSLARARASI FİZİK KONGRESİ, 6 - 09 September 2016
- V. **Multi-Partied Quantum Digital Signature Scheme Without Assumptions On Quantum Channel Security**  
Sahin M., YILMAZ İ.  
International Conference on Quantum Science and Applications (ICQSA), Eskişehir, Turkey, 25 - 27 May 2016, vol.766
- VI. **Yüksek Boyutta Chaplygin Gazın Termodinamiği**  
GÜNAY DEMİREL E. C. , YILMAZ İ.  
Sunum, Turkey, 31 August 2010
- VII. **Evrenin İlk Anlarındaki Kuark Gluon Madde**  
YILMAZ İ., AKTAŞ C.  
XVI. ULUSAL ASTRONOMİ KONGRESİ, Turkey, 8 - 12 September 2008
- VIII. **Silindirik Simetrik Marder Uzay-Zamanında Enerji-Momentum Probleminin Araştırılması**  
ULU DOĞRU M., YILMAZ İ., AYGÜN S.  
6th XVI. Ulusal Astronomi Kongresi ve V. Ulusal Öğrenci Astronomi Kongresi, Turkey, 8 - 12 September 2008
- IX. **N Boyutlu Uzay Zamanda Karanlık madde Karanlık Enerji ve Baryonik madde çözümleri**  
GÜNAY DEMİREL E. C. , YILMAZ İ.  
Sunum, Turkey, 08 September 2008
- X. **SİLİNDİRİK SİMETRİK MARDER UZAY ZAMANINDA ENERJİ MOMENTUM PROBLEMİNİN ARAŞTIRILMASI**  
Aygün M., YILMAZ İ., AYGÜN S.  
XVI. Ulusal Astronomi Kongresi, V. Ulusal Astronomi Kongresi, Turkey, 8 - 12 September 2008
- XI. **Domain wall solutions with quark matter in higher dimensional space-times**  
AKTAŞ C., YILMAZ İ., Baysal H., Ayguen M., Demirel C.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.137-138
- XII. **Energy of rigidly rotating wormhole space-time**  
Ayguen M., YILMAZ İ., AYGÜN S.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.159-160
- XIII. **Energy of Rigidly Rotating Wormhole Space-time**  
ULU DOĞRU M., YILMAZ İ., AYGÜN S.  
6th International Balkan Physical Union-2006, 22 - 26 August 2006
- XIV. **Erken Evrende Bazı Topolojik Yapıların Oluşumu ve Gravitasyonel Alanları**  
ULU DOĞRU M., YILMAZ İ.  
Türk Fizik Derneği Uluslar arası Kongresi, Muğla Üniversitesi -2005, 13 - 16 September 2005
- XV. **Riemann Uzayındaki Eğrilik Inheritance Simetrisinin String Bulutu ve String Akışkan'ına Uygulaması**  
YILMAZ İ., YAVUZ İ., BAYSAL H., TARHAN İ., CAMCI U.  
XII. Ulusal Astronomi Toplantısı, İzmir, Turkey, 11 May - 14 April 2001, pp.509-520
- XVI. **Kozmik Nötrino Kaynaklı Bazı Kozmolojik Modeller**  
TARHAN İ., ÖZDEMİR M., BAYSAL H., CAMCI U., YILMAZ İ., YAVUZ İ.  
XII: Ulusal Astronomi Toplantısı, İzmir, Turkey, 11 - 14 May 2001, pp.495-507
- XVII. **Bir İdeal Akışkanla Dolu Bianchi Tipi V Uzay-Zaman Çözümleri**  
CAMCI U., YAVUZ İ., BAYSAL H., TARHAN İ., YILMAZ İ.  
II. Spil Fen Bilimleri Kongresi, Manisa, Turkey, 23 - 25 October 1997, vol.2, pp.75-80
- XVIII. **Bianchi Tipi III Uzay-Zamanda Isı Akıllı String (Sicim) Kozmolojinin Bazı Exact Çözümleri**  
YAVUZ İ., YILMAZ İ., TARHAN İ., BAYSAL H., CAMCI U., ERDEM A., DEMİR R.  
II. Spil Fen Bilimleri Kongresi, Manisa, Turkey, 23 - 25 October 1997, vol.2, pp.113-119
- XIX. **Sistring Akışkanlarda Inheritance Konformal Simetriler**

YAVUZ İ., YILMAZ İ., BAYSAL H., TARHAN İ.

I. Kızılırmak Fen Bilimleri Kongresi, Kırıkkale, Turkey, 14 - 16 May 1997, pp.135-146

**XX. Bianchi Tipi I Uzay-Zamanda Bazı String (Sicim) Kozmolojik Modeller**

YAVUZ İ., TARHAN İ., BAYSAL H., CAMCI U., YILMAZ İ.

I. Kızılırmak Fen Bilimleri Kongresi, Kırıkkale, Turkey, 14 - 16 May 1997, pp.200-211

## Supported Projects

ŞAHİN E., YILMAZ İ., Project Supported by Higher Education Institutions, Çok dalga boylu kuantum görüntülerde kenar belirleme algoritmalarının geliştirilmesi, 2019 - 2020

AYGÜN S., AKTAŞ C., YILMAZ İ., BAYSAL H., Project Supported by Higher Education Institutions, Tetrad Teoride Kara Delik ve Solucan Delikleri için Enerji Momentum Dağılımlarının Araştırılması, 2018 - 2018

AYGÜN S., AKTAŞ C., YILMAZ İ., Project Supported by Higher Education Institutions, Evrenin ivmelenmesi probleminin  $f(R,T)$  gravitasyon teorisinde araştırılması, 2017 - 2017

AYGÜN S., AKTAŞ C., YILMAZ İ., ŞAHİN M., Project Supported by Higher Education Institutions, Creation Field teori ve evrenin ivmelenmesi probleminin araştırılması, 2016 - 2016

AKTAŞ C., YILMAZ İ., CAMCI Ç., Project Supported by Higher Education Institutions, Kuark Maddenin Çökmesiyle Kara Delik Oluşumu, 2011 - 2016

BAYSAL H., YILMAZ İ., Project Supported by Higher Education Institutions, Beş boyutlu sicim kozmolojik modeller, 2005 - 2007

TARHAN İ., YILMAZ İ., BAYSAL H., KANMAZ E., GÜÇLÜ K., CAMCI U., Project Supported by Higher Education Institutions, Skaler alan kaynaklı bazı kozmolojik modeller ve evrenin evrimine etkileri, 2002 - 2006

TARHAN İ., YILMAZ İ., ÖZDEMİR M., YAVUZ İ., CAMCI U., KUŞKU N., AYKUT İ., BAYSAL H., Project Supported by Higher Education Institutions, String (Sicim) akışkan kaynaklı bazı kozmolojik modeller ve evrenin evrimine etkileri, 2000 - 2006

## Citations

Total Citations (WOS):395

h-index (WOS):13