

ÖZGEÇMİŞ



1. Adı Soyadı : İZZET SAKALLI
2. Doğum Tarihi : 15 EKİM 1977
3. Ünvanı : Profesör
4. Öğrenim Durumu : PhD
5. Çalıştığı Kurum : DOĞU AKDENİZ ÜNİVERSİTESİ

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Uzmanlık Alanı: Matematiksel Fizik , Astronomi, Astrofizik ve Uzay Bilimleri , Yüksek Enerji ve Parçacık Fiziği

YÖKSİS Araştırmacı ID: 307002

Yüksek Lisans Tez Başlığı ve Tez Danışmanı:

MS Tez Başlığı: "Particle Motion in a Uniform Electromagnetic Universe"

Fizik Bölümü, DAÜ, Gazi Magosa, KKTC, Eylül 2000.

Danışman: Prof. Dr. Mustafa HALİLSOY

Doktora Tezi/S.Yeterlik Çalışması/Tıpta Uzmanlık Tezi Başlığı (özeti ekte) ve Danışman(lar)ı:

Doktora Tez Başlığı: "Solution of the Dirac Equation in the Non-Asymptotically Flat Geometries"

YÖK Tez Merkezi Tez No: 513575

Fizik Bölümü, DAÜ , Gazi Magosa, KKTC, Ocak 2005.

Danışman: Prof. Dr. Mustafa HALİLSOY

YÖK Tez Merkezi Tez No: 513575

Derece	Alan	Üniversite	Yıl
Lisans	FİZİK	T.C. OSMANGAZİ ÜNİVERSİTESİ	1994-1998
Öğretmenlik (Pedagojik Formasyon) Sertifikası	T.C. Osmangazi Üniversitesi Fen Edebiyat Fakültesi Öğretmenlik Sertifikası Sertifika No:1233 ÖSP Toplam Kredisi:27 (Ulusal)	T.C. OSMANGAZİ ÜNİVERSİTESİ	30.09.1996 - 22.06.1998
Yüksek Lisans	FİZİK	DOĞU AKDENİZ ÜNİVERSİTESİ	1998-2000
Doktora	FİZİK	DOĞU AKDENİZ ÜNİVERSİTESİ	2000-2005

5. Akademik Unvanlar

Yardımcı Doçentlik Tarihi	: 14 ŞUBAT 2008
Doçentlik Tarihi	: 01 NİSAN 2011
Profesörlük Tarihi	: 01 HAZİRAN 2017

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri (Doğu Akdeniz Üniversitesi/Lisansüstü Eğitim Öğretim ve Araştırma Enstitüsü/Fizik Anabilim Dalı)

- a) Atena Farahi MS Tezi: "Effect of the Dilaton on the Entropic Force", Eylül 2010–Haziran 2011.
- b) Sherwan Yakub MS Tezi: "Hawking Radiation of Rindler Black Hole", Eylül 2013–Temmuz 2014.
- c) Alan Hameed Hussein MS Tezi: "Geodesics of Linear Dilaton Black Holes", Mart 2014–Ağustos 2014
- d) Gülnehal Tokgöz MS Tezi: "Spectroscopy of Black Holes", Mart 2014–Şubat 2015.
- e) Huriye Gürsel MS Tezi: "Hawking Radiation of 3D Black Holes", Ekim 2014–Eylül 2015
- f) Shakhawan R. H.T.H. Talib MS Tezi: "Greybody Factors of 3D Black Holes", Mart 2015–Şubat 2016
- g) Esen Uğural MS Thesis: "Quantization of Black Holes via the Euclidean Metric Method", Ekim 2015–Temmuz 2016
- g) Hüseyin Karyal MS Thesis: "Geodesics of Schwarzschild-like black holes in bumblebee gravity models", Ekim 2019–Eylül 2020 (Eş-Danışman)
- h) Nazım Sertkan MS Thesis: "Geodesics of Schwarzschild-like black holes in bumblebee gravity models", Ekim 2020–Eylül 2021 (Danışman)
- i) Esra Yörük MS Thesis: "Hawking Radiation of Bosons From a Black Hole Having Lorentz Symmetry Breaking", Ekim 2020–Eylül 2021 (Danışman)

6.2. Doktora Tezleri (Doğu Akdeniz Üniversitesi/Lisansüstü Eğitim Öğretim ve Araştırma Enstitüsü/Fizik Anabilim Dalı)

- a) Hale Paşaoğlu PhD Tezi: "Information Loss Problem in Linear Dilaton Black Holes", Ekim 2009–Mayıs 2012. (Eş-Danışman)
- b) S. Fatemeh Mirekhtary PhD Tezi: "Hawking Radiation of Non-asymptotically Flat Black Holes", Eylül 2012–Haziran 2014. (Danışman)
- c) Gülnehal Tokgöz PhD Tezi: "Scalar Clouds and Quasinormal Modes", Ekim 2015–Ocak 2019 (Danışman)
- d) Huriye Gürsel PhD Tezi: "Radiation Physics of Black Holes and Black Strings", Mart 2017– Devam Ediyor. (Danışman)
- e) Sara Kanzi PhD Tezi: "Quantum Tunneling and Hawking Radiation", Ekim 2017– Eylül 2021. (Danışman)

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI, SCIE, SSCI, Arts and Humanities)

Mangut, M., Gürsel, H., Sakallı, İ.

Gravitational lensing in Kerr–Newman anti de Sitter spacetime (2023) *Astroparticle Physics*, 144, art. no. 102763, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137158821&doi=10.1016%2fj.astropartphys.2022.102763&partnerID=40&md5=0e175c59aeed78750c43bb74e42c8c86> DOI: 10.1016/j.astropartphys.2022.102763

Mirekhtiary, F.S., Sakallı, İ.

Quasinormal Modes of AdS Black Strings (2023) *Indian Journal of Physics*, 97 (1), pp. 1-6. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85122673496&doi=10.1007%2fs12648-021-02262-3&partnerID=40&md5=2a838282cf0416b4869364ce5ff8f22f> DOI: 10.1007/s12648-021-02262-3

Pourhassan, B., Sakallı, İ.

Non-perturbative correction to the Hořava–Lifshitz black hole thermodynamics (2022) *Chinese Journal of Physics*, 79, pp. 322-338. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141723422&doi=10.1016%2fj.cjph.2022.09.006&partnerID=40&md5=24bfd1a436af551eece5257cabae604f> DOI: 10.1016/j.cjph.2022.09.006

Mirekhtiary, S.F., Sakallı, İ.

Thermodynamics and Phase Transition of Gravitational Global and Local Monopole (2022) *Gravitation and Cosmology*, 28 (2), pp. 175-185. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85131303227&doi=10.1134%2fS0202289322020098&partnerID=40&md5=4b7c02fb55e662273376522df0bb5f0a> DOI: 10.1134/S0202289322020098

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Sakallı, İ., Kanzi, S.

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Sakallı, İ., Kanzi, S.

Topical Review: greybody factors and quasinormal modes for black holes in various theories - fingerprints of invisibles (2022) *Turkish Journal of Physics*, 46 (2), pp. 51-103. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85132413370&doi=10.55730%2f1300-0101.2691&partnerID=40&md5=fdda71e812e96a66f1d52b70fbd5ef89> DOI: 10.55730/1300-0101.2691

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Al-Badawi, A., Kanzi, S., Sakallı, İ.

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 Quantum tunneling of fermions from Grumiller black hole (2020) Indian Journal of Physics, 94 (11), pp. 1853-1859. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075191553&doi=10.1007%2fs12648-019-01617-1&partnerID=40&md5=64f6b17f159b8d2b4c6fe3de1d2e5407> DOI: 10.1007/s12648-019-01617-1
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Solution of Dirac equation and greybody radiation around a regular Bardeen black hole surrounded by quintessence (2020) Annals of Physics, 412, art. no. 168026, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075315878&doi=10.1016%2fj.aop.2019.168026&partnerID=40&md5=1f84c975d4519432f3166c46004501ad> DOI: 10.1016/j.aop.2019.168026
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Weak gravitational lensing by Kerr-MOG black hole and Gauss–Bonnet theorem (2019) Annals of Physics, 411, art. no. 167978, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073949901&doi=10.1016%2fj.aop.2019.167978&partnerID=40&md5=aa83258ff828ac852ac2c5f74b0e2015> DOI: 10.1016/j.aop.2019.167978
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GUP modified Hawking radiation in bumblebee gravity (2019) Nuclear Physics B, 946, art. no. 114703, . <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069965889&doi=10.1016%2fj.nuclphysb.2019.114703&partnerID=40&md5=b290e93085b593ffcbb4d9357cb4dc8> DOI: 10.1016/j.nuclphysb.2019.114703
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Conference Proceedings Volume: 2075 Article Number: 040001 Published: 2019
- [4] “Supersymmetries and Quantum Symmetries – SQS'19”, Yerevan-Armania, 26-31 August 2019. (<http://theor.jinr.ru/sqs19/>)
Konuşma Başlığı: “Entropy/Area Quantization of Schwarzschild-like Black Holes in Bumblebee Gravity Model”
- [5] “11th International Conference of the Balkan Physical Union” 28 August – 1 September 2022, Belgrade, Serbia. (<https://bpu11.info/>) *Session S03 Gravitation and Cosmology*
Konuşma Başlığı: “Analytical Quasinormal modes of charged fermions in Einstein-Born-Infeld dilaton black hole spacetime”

7.4. Davetli Olarak Katılman Bilimsel Etkinlikler ve Görevler

- [1] **Invited Lecturer:** “Black Hole Quantization and Hawking radiation” by Prof. Dr. İzzet Sakallı
<https://sites.google.com/view/atitphysics/home/2022W?authuser=0>
Conference: Advanced Topics in Theoretical Physics (7-12.2.2022) “ATITPhysics 2022” by FEZA GÜRSEY FİZİK VE MATEMATİK UYGULAMA ve ARAŞTIRMA MERKEZİ
<http://fezagursev.boun.edu.tr/?savfa=78>
<https://www.emu.edu.tr/en/news/news/emu-arts-and-sciences-faculty-physics-department-members-attend-the-feza-gursev-research-center-bogazici-university-winter-school/1206/pid/3953>
- [2] **Invited Lecturer:** “Quantum spacetime, black hole quasinormal modes, gravitational waves, quantum gravity phenomenology, gamma ray bursts, singularities of spacetime, Planck scale physics, black holes entropy, Hawking radiation, grey body factors, the information paradox, QFT on quantum spaces, noncommutative geometry, generalized symmetries, modified gravity, Lorenz violating theories, GUP inspired black holes, nonlinear electrodynamics.” by Prof. Dr. İzzet Sakallı
<http://thphys.irb.hr/events/bh22/>
Conference: Quantum aspects of Spacetime and Gravity 05 - 09 September 2022 at Ruđer Bošković Institute, Zagreb, Croatia
<https://www.emu.edu.tr/tr/haberler/haberler/dau-fizik-bolumu-ogretim-uyesi-prof-dr-izzet-sakallidan-ruer-bokovi-enstitusunde-onemli-temsiliyet/1206/pid/4136>
- [3] **Conference Session Chair:** “Frontiers of Fundamental Physics” | FFP16 International Symposium | 23-26 May 2022 | Online Meeting <https://ffp16.istanbul.edu.tr/en/content/program/fundamental-physics>
24 May 2022 Second Day – Tuesday; Session 2 Chairs: Altuğ Özpıneci (Middle East Technical University) & İzzet Sakallı (Doğu Akdeniz University)

<https://www.kibrispostasi.com/c91-EGITIM/n424406-dau-fizik-bolumu-akademisyenleri-nobellerin-toplantisinda-oturma-baskanligi-yapti>

[4] **Conference Session Chair:** “International Conference on High Energy Physics” | 06-07 July 2022 | Online Meeting <http://hep.du.ac.ir/en/>

July 6-7, 2022, International Conference on High Energy Physics, Damghan University, Iran.

Program: <http://hep.du.ac.ir/en/files.php?rid=6>

[5] **Conference Session Chair:** “2nd International Conference on High Energy Physics” | 25-26 January 2023 | Hybrid Meeting <https://holography2023.du.ac.ir/en/>

January 25-26, 2023, 2nd International Conference on High Energy Physics, Damghan University, Iran.

Program: <https://holography2023.du.ac.ir/en/files.php?rid=2>

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

Yok

7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

[1] “Quantization, Dualities and Integrable Systems”, Ankara University, Ankara-Turkey, 23-25 April, 2009. (<http://dualities.science.ankara.edu.tr>)

Konuşma Başlığım: “*Hawking Radiation of Higher Dimensional Linear Dilaton Black Holes in Einstein-Yang-Mills-Dilaton Theory*”

[3] “Quantization, Dualities and Integrable Systems”, Yeditepe University, İstanbul-Turkey, 23-25 April, 2010. (<http://qdis.yeditepe.edu.tr>)

Konuşma Başlığım: “*Information Loss and Entropy Conservation of Linear Dilaton Black Holes in Quantum Corrected Hawking Radiation*”

[4] “Quantization, Dualities and Integrable Systems”, Pamukkale University, Denizli-Turkey, 21-23 April, 2012. (<http://qdis2012.pau.edu.tr>)

Konuşma Başlığım: “*Quasinormal Modes of Charged Fermions around Dilaton Black Holes in EMD Theory with Double Liouville-Type Potentials: Exact Frequencies*”

[5] “Quantization, Dualities and Integrable Systems”, Koç University, İstanbul-Turkey, 19-20 April, 2014. (<http://home.ku.edu.tr/~qdis/qdis13.html>)

Konuşma Başlığım: “*Quantization of black holes with the aid of confluent hypergeometric functions*”

[6] “Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2019: YEFAK 2019”, İstanbul Üniversitesi, İstanbul-Türkiye, 30-31 Ocak 2019. (<http://yefak.org/>)

Konuşma Başlığım: “*Asimptotik Olarak Düz Olmayan Karadeliklerin Hawking Işıması ve Karakteristik Frekansları*”

[7] “Third International Conference Of Mathematical Sciences (ICMS 2019)”, Maltepe Üniversitesi, İstanbul-Türkiye, 05-08 Eylül 2019. (<https://www.maltepe.edu.tr/icms19/>)

Konuşma Başlığım (Plenary Speaker): “*Mathematical Beauty in Black Hole Radiation*”

[*] “Quantization, Dualities and Integrable Systems”, Eastern Mediterranean University, Gazimagosa-TRNC, 01-02 Mayıs, 2015. (<http://qdis15.emu.edu.tr/>) (Bu çalıştayın organizatörlerinden birisiydim)

[**] “2nd Physics Days Meeting”, Eastern Mediterranean University, Gazimagosa-TRNC, 21-22 Mart, 2019. (<https://physicsdays.emu.edu.tr/en/>) (Bu çalıştayın organizasyon başkanıyım.)

7.7. Diğer yayınlar

“**Editorial:** Black Holes: Insights and Enigmas” I. Sakalli, E. Guendelman, and D. Singleton, ADVANCES IN HIGH ENERGY PHYSICS Volume: 2018 Article Number: 5874973 Published: 2018 [SCIE]

<https://www.hindawi.com/journals/ahp/si/519381/>

8. Projeler ve Editörlük

Proje: Doğu Akdeniz Üniversitesi BAPC-04-18-01 numaralı ve “Massive Scalar Waves in 5-Dimensional Black Strings” başlıklı proje (teorik & simülasyon). Proje yürütücüsü olduğum bu projeyi doktora öğrencim Huriye Gürsel ile tamamladım. Proje Başlangıcı: 19 Şubat 2018; Bitiş Tarihi: 15 Aralık 2018
<https://doi.org/10.1155/2018/8504894>

Editör-1: Baş Konuk Editörü (Lead Guest Editor): İzzet Sakallı (2018)

Black Holes: Insights and Enigmas

Guest Editors: Eduardo Guendelman (Israel), Douglas Singleton (USA), and Habib Mazharimousavi (Cyprus)

Advances in High Energy Physics

Editorial (2 pages), Article ID 5874973, Volume 2018 (2018) [SCIE]

<https://www.hindawi.com/journals/ahp/si/519381/>

Editör-2: Alan Editörü (Mathematical Methods in Physics): İzzet Sakallı (Aktif)

Proceedings of International Mathematical Sciences

<https://dergipark.org.tr/tr/pub/pims/board>

9. İdari, Teknik ve Diğer Görevler

- a) DAÜ Fizik Bölüm Başkanlığı: (Kasım 2016 – Kasım 2019), (Kasım 2019- Kasım 2022), (Kasım 2022- Devam Ediyor)
- b) DAÜ Kimya Bölüm Başkanlığı: (Kasım 2016 – Kasım 2019), (Kasım 2019- Kasım 2022), (Kasım 2022- Devam Ediyor)
- c) DAÜ Müfredat Komitesi Üyeliği: Ekim 2010 -.Şubat 2017
- d) DAÜ Fen-Edebiyat Fakültesi Stratejik Plan Komitesi Üyeliği: Mart - Temmuz 2012
- e) DAÜ Öğrenci Disiplin Kurulu Üyeliği: Ekim 2009 - Eylül 2010.
- f) DAÜ Fizik Bölümü Eğitim Çıktıları Komisyonu Üyeliği: Eylül 2008 - Şubat 2009
- g) DAÜ Senato Üyeliği: (Kasım 2016 – Kasım 2019), (Kasım 2019- Kasım 2022), (Kasım 2022- Devam Ediyor)
- h) TÜBİTAK Panelist & Danışman: 2019-Günümüz
- i) DAÜ Fizik Lisans (İngilizce) Programının Açılışı (YÖK & YÖDAK Onaylı): Sürecin İcra Kurulu Başkanı: Kasım 2019- Ağustos 2020
- j) DAÜ Kimya Lisans (İngilizce) Lisans Programı Açılışı (YÖK & YÖDAK tarafından onaylanmıştır): Sürecin İcra Kurulu Başkanı: Kasım 2019- Ağustos 2020
- k) KKTC Polis Teşkilatı Bilirkişi Uzmanı (Trafik Kazaları): 2019-Günümüz

10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

Kıbrıs Türk Bilim ve Teknoloji Derneği (BİLTED) (bilted.org/)
Institute of Physics (iopscience.iop.org/)

11. Ödüller

- 1) Osmangazi Üniversitesi Fen&Edebiyat Fakültesi Fakülte Birinciliği: 3.93/4.00 mezuniyet ortalaması ile, (Haziran 1998)
- 2) En iyi hakem ödülü: “Outstanding Reviewer 2017 by the journal of Classical and Quantum Gravity (Bristol University-UK)”
(<https://publishingsupport.iopscience.iop.org/questions/classical-quantum-gravity-2017-reviewer-awards/>)
- 3) En iyi hakem ödülü: “Outstanding Reviewer 2018 by the journal of Classical and Quantum Gravity (Bristol University-UK)”

12. Son iki yılda verilen lisans ve lisansüstü düzeydeki dersler

Lisans

Dönem	Ders Adı	Dili	Saat
2022-2023	PHYS103 Introduction to Physics	İngilizce	3
2022-2023	PHYS381 Oscillations and Waves	İngilizce	3
2021-2022	PHYS321 Classical Mechanics	İngilizce	3
2021-2022	PHYS103 Introduction to Physics	İngilizce	3
2021-2022	FIZK103 Fizik - I	Türkçe	4

Yüksek Lisans

Dönem	Ders Adı	Dili	Saat
2022-2023	PHYS521 Classical Mechanics - I	İngilizce	3
2021-2022	PHYS521 Classical Mechanics - I	İngilizce	3
2021-2022	PHYS598 Seminar	İngilizce	0

Doktora

Dönem	Ders Adı	Dili	Saat
2022-2023	PHYS600 Ph.D.Thesis	İngilizce	0
2022-2023	PHYS698 Seminar	İngilizce	0
2022-2023	PHYS605 Selected Topics in General Relativity - III	İngilizce	3
2022-2023	PHYS699 Ph.D.Qualifying Exam	İngilizce	0
2021-2022	PHYS699 Ph.D. Qualifying Exam	İngilizce	0
2021-2022	PHYS600 Ph.D. Thesis	İngilizce	0
2021-2022	PHYS621 Classical Mechanics - II	İngilizce	3
2021-2022	PHYS698 Seminar	İngilizce	0
2021-2022	CHEM699 Ph.D. Qualifying Exam	İngilizce	0

13. Fakülte Bazında Verilen Lisans Dersleri

A- Fen ve Edebiyat Fakültesi Verilen Fizik Dersleri ()

PHYS103 Introduction to Physics (Fiziğe Giriş), İngilizce
PHYS321 Classical Mechanics (Klasik Mekanik), İngilizce
PHYS381 Oscillations and Waves (Titreşim ve Dalgalar), İngilizce
PHYS101 Physics I (Mechanics), İngilizce
PHYS102 Physics II (Thermodynamics and Electromagnetism), İngilizce

B- Eğitim Fakültesine Verilen Fizik Dersleri

FIZK203 Fiziğe Giriş, Türkçe
FIZK101 & 102 Fizik I&II ve Genel Fizik I&II, Türkçe
FIZK201 & 202 Genel Fizik I&II, Türkçe
FIZK204 Modern Fiziğe Giriş, Türkçe
FIZK211 Genel Fizik III (Dalgalar ve Optik), Türkçe
FIZK301 Fizikte Özel Konular (Yarı İletkenler ve Süper İletkenlik), Türkçe
FIZK402 Astrofizik, Türkçe

C- Mühendislik Fakültesine Verilen Fizik Dersleri

PHYS101 Physics I (Mechanics), İngilizce
PHYS102 Physics II (Thermodynamics and Electromagnetism), İngilizce
PHYS201 Modern Physics, İngilizce

D- Eczacılık Fakültesine Verilen Fizik Dersleri

PHYS111 Fundamentals of Physics, İngilizce

E- Sağlık Bilimleri Fakültesine Verilen Fizik Dersleri

FIZK109 Temel Fizik, Türkçe
PHYS109 Basic Physics, English