



Assoc. Prof. Dr. Ali Övgün

Curriculum Vitae (Monday 20th May, 2024)

PERSONAL DETAILS

Birthdate March 22, 1988
Address AS246, Physics Department, EMU, Albert Einstein Street, 99628, Gazimagusa, KKTC Mersin 10 TÜRKİYE
Mail ali.ovgun@emu.edu.tr
Webpage <https://staff.emu.edu.tr/aliovgun/en>
Personal Webpage <http://aovgun.weebly.com>
Office Tel +90-392-6301376

Google Scholar Profile
Web of Science Profile
Inspirehep Profile
arXiv Profile
Scopus Profile
Researchgate Profile

RESEARCH INTEREST

Theoretical Physics, Quantum Gravity, Modified Gravity Theories, Black holes, Wormholes, Gravitational lensing, Cosmology, Inflation, Early Universe, Dark Matter, Dark Energy, Shadow cast, Gravitational waves, Quasinormal modes, Greybody factors, Hawking Radiation, Black hole chemistry, AdS/CFT correspondence, Holographic Superconductors, Entanglement, Complexity

ACADEMIC EXPERIENCES

- Associate Professor** 2020-Now
Eastern Mediterranean University, Gazimagusa, TÜRKİYE
- Postdoctoral Fellows** 2017-2020
Instituto de Física, Pontificia Universidad Católica de Valparaíso (PUCV), CHILE
- Research visitor** July/August 2022
Prof. Durmus A. Demir, Sabanci University, Istanbul, TÜRKİYE.
- School of Prospects in Theoretical Physics 2018 From Qubits to Spacetime (PITP 2018)** July 2018
Institute for Advanced Study, 1 Einstein Drive, Princeton, USA.
- Research visitor** April/May 2018
Prof. Leonard Susskind, Stanford Institute for Theoretical Physics, Stanford University, Stanford, California 94305, USA.
- Research visitor** April 2018
Prof. Douglas Singleton, Physics Department, California State University, Fresno, CA 93740, USA.
- Research visitor** Jan/Feb 2018
Prof. Robert B. Mann, Department of Physics and Astronomy, University of Waterloo, Waterloo, Ontario, N2L 3G1, CANADA
- Research visitor** Jan/Feb 2018
Perimeter Institute for Theoretical Physics, Waterloo, Ontario, N2L 2Y5, CANADA

Research visitor

Oct/2017

Theoretical Physics - The European Organization for Nuclear Research-CERN Theory Division, Geneva, SWITZERLAND

Research Assistant in Physics09/2011-
07/2016

Eastern Mediterranean University, Full-time,

working alongside teachers to support learning activities, acting as a specialist assistant for particular subjects and leading classes under the direction of the teacher

EDUCATION

BSc. Physics (English)09/2006-
07/2010

Izmir Institute of Technology, TÜRKİYE

CGPA: 3.28/4.00 With honors degree and graduated from undergrad as the 2nd. best student. Thesis title: Time in Quantum Tunneling.

Supervisor: Prof. Dr. Durmus A. Demir

NExT Ph.D. Astroparticle Physics (as a Visiting Scholar)09/2010-
06/2011

University of Southampton, UNITED KINGDOM

I took QFT, QFT2, Cosmology and GR courses.

MSc. Physics09/2011-
02/2013

Eastern Mediterranean University,

CGPA:3.43/4.00, Thesis title: Dark Matter Modification of f(R) or Wimps Miracle

Supervisor: Prof. Dr. Mustafa Halilsoy

Ph.D. Physics02/2013-
06/2016

Eastern Mediterranean University,

CGPA:3.71/4.00 Thesis title: Studies on Thin-shells and Thin-shell Wormholes

Supervisor:Prof. Dr. Mustafa Halilsoy

High School09/1999-
07/2005

19 Mayıs Turk Maarif Koleji, Girne,

CGPA: 8.6/10 Majored in Science and Mathematics, with high honors

SKILLS

Languages Turkish (mother tongue)
English (fluent) (YÖKDİL Exam: 92.50/100)
Spanish (beginner)
Russian (beginner)
Italian (beginner)

Software MAPLE, L^AT_EX, PYTHON, LINUX, FORTRAN, MATHEMATICA
XVS, RNPLETAL, EDCRGTC, RICCI, GRTENSOR, CADABRA, MAXIMA, xACT.

INTERNATIONAL PROJECTS

CONICYT FONDECYT Postdoctorado Grant No. 3170035- CHILE

2017-2020

Information Extraction From Black Holes And Wormholes By Their Quasinormal-Modes, Greybodies And Hawking Radiations,

*Sponsoring researcher and institution: Prof. Dr. Joel Saavedra
Pontificia Universidad Catolica De Valparaiso, Chile.*

Budget: 120,000 \$.

EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY**2019-2023***CA18108- Quantum gravity phenomenology in the multi-messenger approach (QG-MM),**Working Group Membership: WG 1 Theoretical frameworks for gravity effects below the Planck energy, WG 2 Phenomenology of quantum gravity, WG 6 Gravitational waves.***EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY****2022-2026***CA21136 - Addressing observational tensions in cosmology with systematics and fundamental physics (Cosmo-Verse),**Working Group Membership: WG 3 Fundamental Physics.***EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY****2022-2026***CA21106 - COSMIC WISPerS in the Dark Universe: Theory, astrophysics and experiments (CosmicWISPerS),**Working Group Membership: WG 2 WISPerS Dark Matter and Cosmology, WG 3 WISPerS in Astrophysics.***EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY****2023-2027***CA22113 - Fundamental challenges in theoretical physics (THEORY-CHALLENGES),**Working Group Membership: WG 2 Gravity and Holography, WG 3 Low-dimensional systems.*

MEMBERSHIPS

1. American Physical Society (APS)
2. The European Physical Society (EPS)
3. Canadian Association of Physicists (CAP)
4. The Cyprus Physicists Society
5. Southeastern European Network in Mathematical and Theoretical Physics (SEENET-MTP)
6. Turkish Astronomical Society (TAD)
7. American Mathematical Society (AMS)

HONORS, AWARDS AND GRANTS

1. 2005-2010 Scholarship from TRNC Ministry of National Education.
2. 2010 Scholarship for MSc EuroMasters in Physics from University of Southampton, UK.
3. 2010 Scholarship from AtoSim Erasmus Mundus Master of Science, EU.
4. 2010-2011 Scholarship from NExT PhD school, University of Southampton, UK.
5. 2011-2016 Research Assistantships, Eastern Mediterranean University.
6. 2014-2016 EMU IGSR Publication Awards.
7. 2017-2020 Postdoctoral Fellowship, CONICYT-Chile through FONDECYT postdoctorado No. 3170035, Pontificia Universidad Catolica de Valparaiso, CHILE.
8. WEBOFSCIENCE PUBLONS 2018 Peer Review Awards, USA.
9. EMU 2018 Outstanding Publication Awards
10. EMU 2018 Citation Awards
11. WEBOFSCIENCE PUBLONS 2019 Top Peer Reviewer in Physics Awards, USA.
12. IOP 2019 Outstanding Reviewer for Classical and Quantum Gravity
13. EMU 2019 Citation Awards
14. EMU 2019 Outstanding Publication Awards
15. Among World's Top 2% Scientists – Stanford University 2019 Releases List

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16. [Ranking of first 6000 academicians along with their major and scientific area of interests in TÜRKİYE based on H-index and citations, 2021 Scientists – Prof. Murat Alper](#)
 17. [Among World’s Top 2% Scientists – Stanford University 2020 Releases List](#)
 18. [Among World’s Top 2% Scientists – Stanford University 2021 Releases List](#)
 19. [Among World’s Top 2% Scientists – Stanford University 2022 Releases List](#)

SUPERVISORSHIPS

- PhD Supervisor: YASHMITHA KUMARAN
[Weak Deflection Angle via Gauss-Bonnet Theorem](#), 2018-2023.

- MSc Supervisor: FLORA BABAYEVA
[Shadow Cast of The Schwarzschild-like Black Holes](#), 2020-2022.

- MSc Supervisor: HAMZA SABER ZEBARI
[Newtonian Cosmology](#), 2018-2020.

- MSc Supervisor: GABRIEL WIRDZELII JOSEPH
[Cosmology with Varying Physical Constants](#), 2018-2020.

- MSc Co-Supervisor: HUSEYIN KARYAL
[Geodesics of Black Holes in Bumblebee Gravity Theory](#), 2018-2020.

- Msc Project: ILIM IRFAN CIMDIKER (SABANCI UNIVERSITY-TÜRKİYE)
[Black Hole Shadow in Symmergent Gravity](#), PHYSICS OF DARK UNIVERSE 2021. (Supervisor: Prof.Dr.Durmus Ali Demir)

- BSc Project: CEREN H. BAYRAKTAR (IYTE-TÜRKİYE)
[Thermodynamics of regular black holes with cosmic strings](#), European Physical Journal - Plus 2018. (Supervisor: Prof.Dr.Durmus Ali Demir)

- BSc Project: MERT OKYAY (MIAMI UNI.-USA)
[Nonlinear electrodynamic effects on the black hole shadow, deflection angle, quasinormal modes and greybody factors](#), Journal of Cosmology and Astroparticle Physics 2022.

SINGLE AUTHOR PAPERS

1. [Weak gravitational lensing of regular black holes with cosmic strings using the Gauss-Bonnet theorem](#),
[Physical Review D 99, 104075 \(2019\)](#),
arXiv:1902.04411.
2. [Light deflection by Damour-Solodukhin wormholes and Gauss-Bonnet theorem](#),
[Physical Review D 98, 044033 \(2018\)](#),
arXiv: 1805.06296.
3. [Black hole with confining electric potential in scalar-tensor description of regularized 4-dimensional Einstein-Gauss-Bonnet gravity](#),
[Physics Letters B 820, 136517 \(2021\)](#),
arXiv:2105.05035.
4. [Inflation and Acceleration of the Universe by Nonlinear Magnetic Monopole Fields](#),
[The European Physical Journal C 77:105 \(2017\)](#),
arXiv:1604.01837.
5. [Evolving topologically deformed wormholes supported in the dark matter halo](#),
[The European Physical Journal Plus 136: 987 \(2021\)](#),
arXiv:1803.04256.
6. [Rotating Thin-Shell Wormhole](#),
[The European Physical Journal Plus 131: 389 \(2016\)](#),
arXiv:1604.08477.

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7. **Entangled Particles Tunneling From a Schwarzschild Black Hole immersed in an Electromagnetic Universe with GUP**,
[International Journal of Theoretical Physics 55: 2919-2927 \(2016\)](#),
arXiv:1508.04100.
 8. **P-V criticality of a specific black hole in $f(R)$ gravity coupled with Yang-Mills field**,
[Advances in High Energy Physics 2018, 8153721, \(2018\)](#),
arXiv:1710.06795.
 9. **The Bekenstein-Hawking Corpuscular Cascading from the Backreacted Black Hole**,
[Advances in High Energy Physics 2017, 1573904, \(2017\)](#),
arXiv:1609.07804.
 10. **Deflection angle of photon through dark matter by black holes and wormholes using the Gauss-Bonnet theorem**,
[Universe 5\(5\), 115 \(2019\) \(invited\): Special Issue "Gravitational Lensing and Optical Geometry: A Centennial Perspective"](#)
arXiv:1806.05549.
 11. **Weak Deflection Angle of Black-bounce Traversable Wormholes Using Gauss-Bonnet Theorem in the Dark Matter Medium**,
[Turkish Journal of Physics 44, 465-471 \(2020\) \(invited\)](#),
arXiv:2011.04423.

JOURNALS EDITOR

1. Turkish Journal of Physics
2. Review Editor: Frontiers in Physics: Special Issue on Quasinormal Modes in Relativistic Stars and Black Holes
3. Review Editor: Frontiers in Physics: High-Energy and Astroparticle Physics
4. Guest Associate Editor: Frontiers in Physics: in Stellar and Solar Physics
5. Guest Editor: UNIVERSE: Special Issue "Recent Progress of Black Holes Physics"
6. Guest Editor: SYMMETRY: Special Issue "Recent Progress of Black Holes Physics"

SOME HIGH IMPACT JOURNALS REFEREED

My Web of Science Profile for complete list

1. Physical Review D
2. Classical and Quantum Gravity
3. Physics Letters B
4. The European Physical Journal C
5. Nuclear Physics B
6. Journal of Cosmology and Astroparticle Physics
7. Fortschritte der Physik- Progress of Physics
8. Annals of physics
9. Annalen der Physik
10. The European Physical Journal Plus
11. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences
12. EPL (Europhysics Letters)
13. Physics of the Dark Universe
14. General Relativity and Gravitation
15. International Journal of Geometric Methods in Modern Physics
16. Canadian Journal of Physics

TUBITAK AND OTHER INTERNATIONAL PROJECTS REFEREED

- TUBITAK UPAG - Uluslararası Isbirliği Projeleri Arastirma Destek Grubu Projeleri
- TUBITAK 1001 - Bilimsel ve Teknolojik Arastırma Projelerini
- TUBITAK 1002 - Hızlı Destek Programı
- TUBITAK BİDEB 2021 Bilim İnsani Destekleme Programları Doktora Sonrası Arastirmaci Projeleri
- TUBITAK 2218- Yurt İci Doktora Sonrası Arastirma Burs Programı
- CHILE FONDECYT

TOTAL 163 PUBLICATIONS IN PEER REVIEWED JOURNALS

Sorted by Journal Name

PHYSICAL REVIEW D

1. **Rotating black hole mimicker surrounded by the string cloud,**
[Physical Review D \(2024\)](#),
arXiv:2307.09344, Jointly with Yi Yang, Dong Liu, Gaetano Lambiase, Zheng-Wen Long.
2. **Probing hairy black holes caused by gravitational decoupling using quasinormal modes and greybody bounds,**
[Physical Review D \(2023\)](#),
arXiv:2203.11551, Jointly with Yi Yang, Dong Liu, Zheng-Wen Long, Zhaoyi Xu.
3. **Finite-Distance Gravitational Deflection of Massive Particles by the Kerr-like Black Hole in the Bumblebee Gravity Model,**
[Physical Review D 101, 024040 \(2020\)](#),
arXiv:2001.02074, Jointly with Zonghai Li.
4. **Effect of Non-Linear Electrodynamics on Weak Field Deflection Angle by Black Hole,**
[Physical Review D 101, 103521 \(2020\)](#),
arXiv:2005.09464, Jointly with Wajih Javed and Ali Hamza.
5. **Circular orbit of a particle and weak gravitational lensing,**
[Physical Review D 101, 124058 \(2020\)](#),
arXiv:2006.13047,
Jointly with Li Zonghai and Zhang Guodong.
6. **Exact traversable wormhole solution in bumblebee gravity,**
[Physical Review D 99, 024042 \(2019\)](#),
arXiv:1804.09911, Jointly with Kimet Jusufi and Izzet Sakalli.
7. **Effect of the Brane-Dicke coupling parameter on weak gravitational lensing by wormholes and naked singularities,**
[Physical Review D 99, 084012 \(2019\)](#),
arXiv:1903.11657, Jointly with Wajih Javed and Rimsha Babar.
8. **Weak gravitational lensing of regular black holes with cosmic strings using the Gauss-Bonnet theorem,**
[Physical Review D 99, 104075 \(2019\)](#),
arXiv:1902.04411.
9. **Effect of the hair on deflection angle by asymptotically flat black holes in Einstein-Maxwell-dilaton theory,**
[Physical Review D 100, 044052, \(2019\)](#),
arXiv:1908.05241, Jointly with Wajih Javed and Jameela Abbas.
10. **Effect of the dilaton field on deflection angle of massive photons by Black Holes in Einstein-Maxwell-Dilaton-Axion Theory,**
[Physical Review D 100, 104032 \(2019\)](#),
arXiv:1910.11697, Jointly with Wajih Javed and Rimsha Babar.
11. **Light deflection by Damour-Solodukhin wormholes and Gauss-Bonnet theorem,**
[Physical Review D 98, 044033 \(2018\)](#),
arXiv:1805.06296.

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12. **Holographic Thermodynamics of Accelerating Black Holes**,
[Physical Review D 98, 104038 \(2018\)](#),
arXiv:1805.02687, Jointly with Andres Anabalón, Michael Appels, Ruth Gregory, David Kubiznak, Robert B. Mann.
 13. **Gravitational Lensing by Rotating Wormholes**,
[Physical Review D 97, 024042 \(2018\)](#),
arXiv:1708.06725, Jointly with Kimet Jusufi.
 14. **Effect of the cosmological constant on the deflection angle by a rotating cosmic string**,
[Physical Review D 97, 064030 \(2018\)](#),
arXiv:1712.01771, Jointly with Kimet Jusufi.
 15. **Deflection of light by rotating regular black holes using the Gauss-Bonnet theorem**,
[Physical Review D 97, 124024 \(2018\)](#),
arXiv:1804.00643, Jointly with Kimet Jusufi, Joel Saavedra, Pablo A. Gonzalez and Yerko Vasquez.
 16. **Light Deflection by a Rotating Global Monopole Spacetime**,
[Physical Review D 95, 104012 \(2017\)](#),
arXiv:1702.05600, Jointly with Ayan Banerjee, Kimet Jusufi, and Marcus C. Werner.
 17. **Effect of Lorentz Symmetry Breaking on the Deflection of Light in a Cosmic String Spacetime**,
[Physical Review D 96, 024040 \(2017\)](#),
arXiv:1705.06197, Jointly with Kimet Jusufi and Izzet Sakalli.
 18. **Light Deflection by Charged Wormholes in Einstein-Maxwell-Dilaton Theory**,
[Physical Review D 96, 084036 \(2017\)](#),
arXiv:1707.01416, Jointly with Kimet Jusufi and Ayan Banerjee.
 19. **Relativistic Bose-Einstein condensates thin-shell wormholes**,
[Physical Review D 96, 084022 \(2017\)](#),
arXiv:1710.05886, Jointly with M. G. Richarte, I. G. Salako, J. P. Morais Graca and H. Moradpour.

PHYSICS LETTERS B

1. **Effect of the magnetic charge on weak deflection angle and greybody bound of the black hole in Einstein-Gauss-Bonnet gravity**,
[Physics Letters B 829, 137114 \(2022\)](#),
arXiv:2204.07864, Jointly with Wajiha Javed and Muhammad Aqib.
2. **Black hole with confining electric potential in scalar-tensor description of regularized 4-dimensional Einstein-Gauss-Bonnet gravity**,
[Physics Letters B 820, 136517 \(2021\)](#),
arXiv:2105.05035.

NUCLEAR PHYSICS B

1. **Traversable Wormholes in Minimally Geometrical Deformed Trace-Free Gravity using Gravitational Decoupling**,
[Nuclear Physics B \(2024\)](#),
arXiv:2401.16814. Jointly with Piyachat Panyasiripan, Narakorn Kaewkhao, and Phongpichit Channuie.

JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS

1. **Probing Schwarzschild-like Black Holes in Metric-Affine Bumblebee Gravity with Accretion Disk, Deflection Angle, Greybody Bounds, and Neutrino Propagation**,
[Journal of Cosmology and Astroparticle Physics \(2023\)](#),
arXiv:2309.13594. Jointly with Gaetano Lambiase Leonardo Mastrototaro, and Reggie C. Pantig.
2. **Dehnen halo effect on a black hole in an ultra-faint dwarf galaxy**,
[Journal of Cosmology and Astroparticle Physics 08, 056 \(2022\)](#),
arXiv:2202.07404. Jointly with Pantig, C. Reggie.
3. **Nonlinear electrodynamics effects on the black hole shadow, deflection angle, quasinormal modes and greybody factors**,
[Journal of Cosmology and Astroparticle Physics 01, 009 \(2022\)](#),
arXiv:2108.07766. Jointly with Okyay, Mert.
4. **Inflation from a nonlinear magnetic monopole field nonminimally coupled to curvature**,
[Journal of Cosmology and Astroparticle Physics 06, 003 \(2018\)](#),
arXiv:1803.11358, Jointly with Giovanni Otalora, Joel Saavedra and Nelson Videla.

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5. Shadow cast and deflection angle of Kerr-Newman-Kasuya spacetime, [Journal of Cosmology and Astroparticle Physics 10, 041 \(2018\)](#), arXiv:1807.00388, Jointly with Izzet Sakalli and Joel Saavedra.

CLASSICAL AND QUANTUM GRAVITY

1. Constraints on charged Symmergent black hole from shadow and lensing, [Classical and Quantum Gravity \(2023\) \(invited\): Special Issue "Focus on Quantum Gravity Phenomenology in the Multi-Messenger Era: Challenges and Perspectives"](#), Jointly with Beyhan Pulice, Reggie Pantig and Durmuş A. Demir.
2. Thin accretion disk images of the black hole in symmergent gravity using the M87* results, [Classical and Quantum Gravity \(2023\) \(invited\): Special Issue "Focus on Quantum Gravity Phenomenology in the Multi-Messenger Era: Challenges and Perspectives"](#), Jointly with İlim İrfan Çimdiker and Durmuş A. Demir.
3. Horizon-scale tests of gravity theories and fundamental physics from the Event Horizon Telescope image of Sagittarius A*, [Classical and Quantum Gravity \(2023\)](#), arXiv:2205.07787, Jointly with Sunny Vagnozzi, Rittick Roy, Yu-Dai Tsai, Luca Visinelli, Misba Afrin, Alireza Allahyari, Parth Bambhaniya, Dipanjan Dey, Sushant G. Ghosh, Pankaj S. Joshi, Kimet Jusufi, Mohsen Khodadi, Rahul Kumar Walia, Cosimo Bambi.
4. Matter-antimatter asymmetry induced by non-linear electrodynamics, [Classical and Quantum Gravity 38 135019 \(2021\)](#), arXiv:2105.07695, Jointly with Hachemi, Benaoum.
5. Testing Generalized Einstein-Cartan-Kibble-Sciama Gravity using Weak Deflection Angle and Shadow Cast, [Classical and Quantum Gravity 37 225003 \(2020\)](#), arXiv:2005.00982, Jointly with Izzet Sakalli.

FORTSCHRITTE DER PHYSIK - PROGRESS OF PHYSICS

1. Asymptotically-Flat Black Hole Solutions in Symmergent Gravity, [Fortschritte der Physik - Progress of Physics, \(2024\)](#), arXiv:2403.02373, Jointly with Beyhan Pulice, Durmuş Demir and Reggie C. Pantig.
2. Black hole in quantum wave dark matter, [Fortschritte der Physik - Progress of Physics 71, 2200164 \(2023\)](#), arXiv:2210.00523, Jointly with Reggie C. Pantig.
3. Traversable wormholes in the extended teleparallel theory of gravity with matter coupling, [Fortschritte der Physik - Progress of Physics 69, 2100048 \(2021\)](#), arXiv:2104.13760, Jointly with G. Mustafa, Mushtaq Ahmad, M. Farasat Shamir and Ibrar Hussain.

ANNALEN DER PHYSIK

1. Constraints via the Event Horizon Telescope for black hole solutions with dark matter under the generalized uncertainty principle minimal length scale effect, [Annalen der Physik \(2023\)](#), arXiv:2309.07442, Jointly with Lemuel John F. Sese and Reggie C. Pantig.
2. Non-linear Electrodynamics in Blandford-Znajek Energy Extraction, [Annalen der Physik \(2023\)](#), arXiv:2210.11162, Jointly with Amodio Carleo, Gaetano Lambiase.

EUROPEAN PHYSICAL JOURNAL C

1. Topological dyonic black holes of massive gravity with generalized quasitopological electromagnetism, [The European Physical Journal C \(2024\)](#), Jointly with Ali Askar.
2. Black hole surrounded by the pseudo-isothermal dark matter halo, [The European Physical Journal C \(2024\)](#), arXiv:2308.05544, Jointly with Yi Yang, Dong Liu, Gaetano Lambiase, Zheng-Wen Long.
3. Shadow and deflection angle of asymptotic, magnetically-charged, non-singular black hole, [The European Physical Journal C \(2023\)](#), arXiv:2306.04705, Jointly with Yashmitha Kumaran.

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4. **Motion of spinning particles around dynamic phantom AdS black holes,**
[The European Physical Journal C \(2023\)](#),
Jointly with Muhammad Umair Shahzad and Sana Khalid.
 5. **Quasinormal Modes of Black holes in $f(Q)$ gravity,**
[The European Physical Journal C \(2023\)](#),
arXiv:2303.07424, Jointly with Dhruba Jyoti Gogoi and Mouhssine Koussour.
 6. **Gravitational ringing and superradiant instabilities of the Kerr-like black holes in a dark matter halo,**
[The European Physical Journal C \(2023\)](#),
arXiv:2204.11563, Jointly with Dong Liu, Yi Yang, Zheng-Wen Long and Zhaoyi Xu.
 7. **Investigating the Connection between Generalized Uncertainty Principle and Asymptotically Safe Gravity in Black Hole Signatures through Shadow and Quasinormal Modes,**
[The European Physical Journal C \(2023\)](#),
arXiv:2304.00183, Jointly with Gaetano Lambiase, Reggie C. Pantig, Dhruba Jyoti Gogoi.
 8. **Inflation Driven by Non-Linear Electrodynamics,**
[The European Physical Journal C \(2023\)](#),
arXiv:2206.13157, Jointly with H. B. Benaoum, Genly Leon, and H. Quevedo.
 9. **Testing Symmergent gravity through the shadow image and weak field photon deflection by a rotating black hole using the M87* and Sgr. A* results,,**
[The European Physical Journal C 83, 250 \(2023\)](#),
arXiv:2208.02969, Jointly with Reggie Pantig and Durmus A. Demir.
 10. **Shadow, lensing, quasinormal modes, greybody bounds and neutrino propagation by dyonic ModMax black holes,**
[The European Physical Journal C 82, 1155 \(2022\)](#),
arXiv:2208.06664, Jointly with Leonardo Mastrototaro, Gaetano Lambiase and Reggie C. Pantig.
 11. **Dark matter effect on the weak deflection angle by black holes at the center of Milky Way and M87 galaxies,**
[The European Physical Journal C 82, 391 \(2022\)](#),
arXiv:2201.03365. Jointly with Reggie C. Pantig.
 12. **Weak Gravitational Lensing in Dark Matter and Plasma Mediums for Wormhole-like Static Aether Solution,**
[The European Physical Journal C 82, 1057 \(2022\)](#),
arXiv:2212.00804, Jointly with Wajiha Javed, Sibgha Riaz and Reggie C. Pantig.
 13. **Motion and collision of particles near DST Black holes,**
[The European Physical Journal C 79, 528 \(2019\)](#),
arXiv:1811.08551, Jointly with P. A. Gonzalez, Marco Olivares, Joel Saavedra and Yerko Vasquez.
 14. **Deflection angle of photon from magnetized black hole and effect of nonlinear electrodynamics,**
[The European Physical Journal C 79, 694 \(2019\)](#),
arXiv:1908.09632, Jointly with Wajiha Javed and Jameela Abbas.
 15. **Falsifying cosmological models based on a non-linear electrodynamics,** [The European Physical Journal C 78, 462 \(2018\)](#),
arXiv:1709.09794, Jointly with Genly Leon, Juan Magana and Kimet Jusufi.
 16. **Novel nonlinear electrodynamics black hole and related phenomena in the extended thermodynamics,**
[The European Physical Journal C 78, 840 \(2018\)](#),
arXiv:1807.10447, Jointly with Xiao-Mei Kuang and Bo Liu.
 17. **The Effect of the Gauss-Bonnet term to Hawking Radiation from arbitrary dimensional Black Brane,**
[The European Physical Journal C 77, 613 \(2017\)](#), arXiv:1707.00169,
Jointly with Xiao-Mei Kuang and Joel Saavedra.
 18. **Charged Thin-shell Gravastars in Noncommutative Geometry,**
[The European Physical Journal C 77, 566 \(2017\)](#),
arXiv:1704.00603, Jointly with Ayan Banerjee and Kimet Jusufi.
 19. **Inflation and Acceleration of the Universe by Nonlinear Magnetic Monopole Fields,**
[The European Physical Journal C 77, 105 \(2017\)](#),
arXiv:1604.01837.

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20. **Thin-shell wormholes from the regular Hayward black hole,**
[The European Physical Journal C 74, 2796 \(2014\)](#),
arXiv:1312.6665, Jointly with Mustafa Halilsoy and S.Habib Mazharimousavi.

ANNALS OF PHYSICS

1. **Shadow and greybody bounding of a regular scale-dependent black hole solution,**
[Annals of Physics \(2024\)](#),
Jointly with Angel Rincon and Reggie C. Pantig.
2. **Observational Signatures: Shadow cast by the effective metric of photons for black holes with rational non-linear electrodynamics,**
[Annals of Physics \(2024\)](#),
Jointly with Akhil Uniyal, Sayan Chakrabarti and Mohsen Fathi.
3. **Criticality and Topological Classes of Neutral Gauss-Bonnet AdS Black Holes in 5D,**
[Annals of Physics \(2023\)](#),
Jointly with M. Umair Shahzad, Aqsa Mehmood, Sana Sharif.
4. **Quasinormal Modes and Bounding Greybody Factors of GUP-corrected Black Holes in Kalb-Ramond Gravity,**
[Annals of Physics \(2023\)](#),
arXiv:2304.07761, Jointly with Anshuman Baruah, and Atri Deshamukhya.
5. **Quasiperiodic oscillations, weak field lensing and shadow cast around black holes in Symmergent gravity,**
[Annals of Physics \(2023\)](#),
arXiv:2206.06599, Jointly with Javlon Rayimbaev, Reggie C. Pantig, Ahmadjon Abdujabbarov and Durmus Demir.
6. **Testing dynamical torsion effects on the charged black hole's shadow, deflection angle and greybody with M87* and Sgr A* from EHT,**
[Annals of Physics 448, 169197 \(2023\)](#),
arXiv:2206.02161, Jointly with Reggie C. Pantig.
7. **Strong gravitational lensing and shadow constraint from M87* of slowly rotating Kerr-like black hole,**
[Annals of Physics 447, 169147 \(2022\)](#),
arXiv:2205.11003, Jointly with Xiao-Mei Kuang.
8. **Schwarzschild-like black hole with a topological defect in bumblebee gravity,**
[Annals of Physics 436, 168721 \(2022\)](#),
arXiv:2012.02611, Jointly with Ibrahim Gullu.
9. **Shadow and weak deflection angle of extended uncertainty principle black hole surrounded with dark matter,**
[Annals of Physics 436, 168722 \(2022\)](#),
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11. **Effect of the Quintessential Dark Energy on Weak Deflection Angle by Kerr-Newmann Black Hole,**
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12. **Weak Gravitational lensing by phantom black holes and phantom wormholes using the Gauss-Bonnet theorem.,**
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13. **Weak gravitational lensing by Kerr-MOG Black Hole and Gauss-Bonnet theorem,**
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15. **Gravitational Lensing Under the Effect of Weyl and Bumblebee Gravities: Applications of Gauss-Bonnet Theorem,**
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2. **Quantum Tunneling and Quasinormal Modes in the Spacetime of Alcubierre Warp Drive,**
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3. **Hawking radiation and propagation of massive charged scalar field on a three-dimensional Godel black hole,**
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4. **Analytical Solutions in a Cosmic String Born-Infeld-dilaton Black Hole Geometry: Quasinormal Modes and Quantization,**
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5. **Quantum Tunneling of Massive Spin-1 Particles From Non-stationary Metrics,**
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2. **Uninformed Hawking Radiation,**
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Jointly with Erdem Sucu.
2. **Topological behaviour of 3D Regular Black Hole with zero point length,**
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Jointly with Muhammad Umair Shahzad and Aqsa Mehmood.
3. **Quasinormal modes and greybody factors of symmergent black hole,**
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4. **Probing non-linear electrodynamics black hole with thin accretion disk, shadow, and deflection angle with M87* and Sgr A* from EHT,**
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arXiv:2205.11072, Jointly with Akhil Uniyal and Reggie Pantig.
5. **Black Hole Shadow in Symmergent Gravity,**
[Physics of the Dark Universe 34, 100900 \(2021\)](#),
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Jointly with İrfan Çimdiker, Durmuş Demir.

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2. 4D scale-dependent Schwarzschild-AdS/dS black holes: Study of Shadow and weak deflection angle and Greybody bounding,
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 3. Weak deflection angle of Kazakov-Solodukhin black hole in plasma medium using Gauss-bonnet theorem and its greybody bonding,
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 9. Tunneling of Massive Vector Particles from Types of BTZ-like Black Holes,
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 10. The Effect of GUP to Massive Vector and Scalar Particles Tunneling From a Warped DGP Gravity BH,
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 11. Stability of Effective Thin-shell Wormholes Under Lorentz Symmetry Breaking Supported by Dark Matter and Dark Energy,
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 12. Anisotropic stellar models admitting conformal motion,
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 13. Black hole radiation of massive spin-2 particles in (3+1) dimensions,
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 14. Rotating Thin-Shell Wormhole,
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 15. Massive vector particles tunneling from noncommutative charged black holes and their GUP-corrected thermodynamics,
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 16. Tunnelling of vector particles from Lorentzian wormholes in 3+1 dimensions,
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 4. **Effects of Variable Equations of State on the Stability of Nonlinear Electrodynamics Thin-Shell Wormholes**,
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 6. **Quasinormal modes of Schwarzschild Black Hole Immersed In an Electromagnetic Universe,**
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1. **GUP Assisted Hawking Radiation of Rotating Acoustic Black Holes,**
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3. **Existence of traversable wormholes in the spherical stellar systems,**
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2. **Shadow cast of non-commutative black holes in Rastall gravity**,
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 7. **Canonical Acoustic Thin-Shell Wormholes**,
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3. **Particle Acceleration by Static Black Holes in a Model of f(R) Gravity**,
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1. **Exploring Existence of Traversable Wormhole Solutions in the Presence of Some Corrected Casimir Energy Models**,
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1. **P-V criticality of a specific black hole in f(R) gravity coupled with Yang-Mills field**,
[Advances in High Energy Physics 2018, 8153721 \(2018\)](#),
arXiv:1710.06795.
2. **Tunneling of Glashow-Weinberg-Salam model particles from Black Hole Solutions in Rastall Theory**,
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3. **The Bekenstein-Hawking Corpuscular Cascading from the Backreacted Black Hole**,
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4. **Particle Collision near 1+1- Dimensional Horava-Lifshitz Black Hole and Naked Singularity**,
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5. **Tunneling of Massive/Massless Bosons From the Apparent Horizon of FRW Universe**, [Advances in High Energy Physics 2017, 8798657, \(2017\)](#), arXiv:1703.02372, Jointly with Kimet Jusufi and Gordana Apostolovska.

6. **Stable Dyonic Thin-shell Wormholes in String Theory**, [Advances in High Energy Physics 2017, 1215254 \(2017\)](#), arXiv:1611.07501, Jointly with Kimet Jusufi.

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1. **Strong deflection gravitational lensing for the photons coupled to Weyl tensor in conformal gravity black hole**, [Universe \(2023\)\(invited\): Special Issue "Testing General Relativity from the Solar System, Black Holes to Cosmology"](#), Jointly with Ghulam Abbas, Asif Mahmood, Muhammad Zubair.

2. **Weak Deflection Angle and Greybody Bound of Magnetized Regular Black Hole**, [Universe 8, \(5\), 262 \(2022\), \(invited\): Special Issue "Dark Matter and Dark Energy: Particle Physics, Cosmology, and Experimental Searches"](#) arXiv:2205.02229, Jointly with Wajiha Javed and Sibgha Riaz.

3. **Weak deflection angle by Kalb-Ramond Traversable Wormhole in Plasma and Dark Matter Mediums**, [Universe 8, \(11\), 599 \(2022\), \(invited\) : Special Issue "Elementary Particles in Astrophysics and Cosmology"](#), arXiv:2211.07009, Jointly with Wajiha Javed, Sibgha Riaz and Reggie C. Pantig.

4. **Weak Deflection angle and Shadow by Tidal Charged Black Hole**, [Universe 7, \(10\), 385 \(2021\), \(invited\)](#) arXiv:2110.11397, Jointly with Wajiha Javed and Ali Hamza.

5. **Deflection angle of photon through dark matter by black holes and wormholes using the Gauss-Bonnet theorem**, [Universe 5, \(5\), 115 \(2019\), \(invited\): Special Issue "Gravitational Lensing and Optical Geometry: A Centennial Perspective"](#) arXiv:1806.05549.

SYMMETRY

1. **Weak Deflection Angle, Hawking Radiation and Greybody Bound of Reissner-Nordström Black Hole Corrected by Bounce Parameter**, [Symmetry 15, \(1\), 148 \(2023\), \(invited\): Special Issue: Nature and Origin of Dark Matter and Dark Energy](#), arXiv:2301.01855, Jointly with Wajiha Javed, Mehak Atique and Reggie Pantig.

2. **Deflection angle and shadow of the Reissner-Nordström black hole with higher-order magnetic correction in Einstein-nonlinear-Maxwell fields**, [Symmetry 14, \(10\), 2054 \(2022\), \(invited\): Special Issue: Numerical Relativity and Gravitational Wave,](#), arXiv:2210.00468, Jointly with Yashmitha Kumara.

NEW ASTRONOMY

1. **Nonlinearly charged black holes: Shadow and Thin-accretion disk**, [New Astronomy \(2024\)](#), 2303.07174, Jointly with Akhil Uniyal, Sayan Chakrabarti and Reggie C. Pantig..

2. **Joule Thomson Expansion, Maxwell Equal Area Law and Topological Interpretation of Phantom RN AdS Black Holes**, [New Astronomy \(2024\)](#), Jointly with Muhammad Umair Shahzad, Aqsa Mehmood and Ramish Gohar.

3. **Particle dynamics and thermodynamical analysis of the rotating ModMax black holes**, [New Astronomy \(2024\)](#), Jointly with Khurshid Karshiboev, Farruh Atamurotov, Ahmadjon Abdujabbarov and Eldor Karimbaev.

4. **Effects of Electric and Magnetic Charges on Weak Deflection Angle and Bounding Greybody of Black Holes in Nonlinear Electrodynamics**, [New Astronomy \(2023\)](#), Preprints.org 2022, 2022020245, Jointly with Wajiha Javed and Mehak Atique.

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5. **Bounding greybody and deflection angle of improved Schwarzschild black hole,** [New Astronomy 96, 101827 \(2022\)](#), Preprints 2021, 2021110273, Jointly with Wajiha Javed and Muhammad Aqib.

COMMUNICATIONS IN THEORETICAL PHYSICS

1. **Exploring the Shadow of a Rotating Charged ModMax Black Hole,** [Communications in Theoretical Physics \(2023\)](#), Jointly with Khurshid Karshiboev, Farruh Atamurotov, Ahmadjon Abdujabbarov, and Anvar Reyimberganov.

INDIAN JOURNAL OF PHYSICS

1. **Cosmology with variable G and nonlinear electrodynamics,** [Indian Journal of Physics 96, 1861-1866 \(2022\)](#), arXiv:2104.11066, Jointly with Gabriel W. Joseph.

TURKISH JOURNAL OF PHYSICS

1. **Weak Deflection Angle of Black-bounce Traversable Wormholes Using Gauss-Bonnet Theorem in the Dark Matter Medium,** [Turkish Journal of Physics 465-471 \(2020\), \(Invited Article\)](#) arXiv:2011.04423.
2. **Deriving Weak Deflection Angle by Black Holes or Wormholes using Gauss-Bonnet Theorem,** [Turkish Journal of Physics 45, 247-267 \(2021\), \(Invited Review\)](#), arXiv:2111.02805, Jointly with Yashmitha Kumaran.

Thesis

1. Ph.D Thesis Studies on Thin-shells and Thin-shell Wormholes. arXiv:1610.08118.
2. M.Sc Thesis Dark Matter: Modification of $f(R)$ or Wimps Miracle. arXiv:1301.5371.

TEACHING EXPERIENCE

Lecturer in Physics Department at Eastern Mediterranean University (as being a PhD student, Part-time Faculty Member and then Full-time Faculty Member) for undergraduate/graduate students from a variety of different departments.

PHYS101 <i>Physics I: Mechanics for scientists and engineers,</i>	2015-Now
PHYS102 <i>Physics II: Thermodynamics and Electromagnetism for scientists and engineers,</i>	2018-Now
PHYS111 <i>Principles of Physics for Pharmacy Department,</i>	2015-Now
PHYS201 <i>Physics III: Modern Physics for scientists and engineers,</i>	2018-Now
FIZK101 <i>Matematik Lisans Programı Fizik I: Mekanik, Elektromanyetizma,</i>	2015-Now
FIZK102 <i>Matematik Lisans Programı Fizik II: Termodinamik, Elektromanyetizma,</i>	2015-Now
FIZK103 <i>İnşaat Mühendisliği Lisans Programı (Türkçe) Bilgisayar Mühendisliği Lisans Programı (Türkçe) Fizik I: Mekanik,</i>	2015-Now
FIZK104 <i>İnşaat Mühendisliği Lisans Programı (Türkçe) Bilgisayar Mühendisliği Lisans Programı (Türkçe) Fizik II: Termodinamik, Elektromanyetizma,</i>	2015-Now

FIZK105 <i>Radyoterapi Önlisans Programı (Türkçe) Temel Fizik,</i>	2015-Now
FIZK109 <i>Fizyoterapi ve Rehabilitasyon Lisans Programı (Türkçe) Temel Fizik,</i>	2018-Now
FIZK201 <i>İlköğretim Matematik Öğretmenliği Lisans Programı (Türkçe) Fizik I: Mekanik,</i>	2015-Now
FIZK202 <i>İlköğretim Matematik Öğretmenliği Lisans Programı (Türkçe) Fizik II,</i>	2015-Now
FIZK203 <i>Sınıf Öğretmenliği Lisans Programı (Türkçe) Fizik I,</i>	2015-Now
FIZK205 <i>Bilgisayar ve Öğretim Teknolojileri Öğretmenliği Lisans Programı (Türkçe) Fizik II,</i>	2015-Now
PHYS324 <i>Introduction to General Relativity,</i>	2022-Now
PHYS386 <i>Astrophysics I,</i>	2023-Now
PHYS472 <i>Nuclear and Particle Physics,</i>	2024-Now
PHYS503 <i>Introduction to Cosmology,</i>	2016-Now

ADMINISTRATIVE TASKS

- Member of Faculty Board: October 2023-Present
- Member of Social Media Committee of EMU: October 2018-Present
- Member of Faculty BAP-C Committee of EMU: October 2018-Present
- TÜBİTAK Panelist & Advisor: 2018-Present

VOLUNTEER EXPERIENCES

- Head of IYTE Physics Society, (2007-2010).
- Giving a talk about Black holes at High School Students, Erenköy Lisesi (29 April 2019)
- Giving a talk about black holes to students from Turkey at "Biricik Bilim Fizik ve Matematik Haftası", (15-16 May 2021)
- Giving lecture at 2nd Astronomy Summer Workshop for High School Students, Famagusta EMU(3-4 August 2023)
- Being a guest on the TV Program titled "Yaşama Sanatı" on BRT (state television of the Turkish Republic of Northern Cyprus) to discuss the topic "Astrophysics and Our Universe" (07/09/2023)

PRESS/ MEDIA

1. **KIBRIS POSTASI:** DAÜ Öğretim Üyesi Doç. Dr. Ali Övgün, İtalya'da çalışmaya katıldı
2. **EMU NEWS:** Important Representation in the USA from EMU Physics Department Academic Staff Member Assoc. Prof. Dr. Ali Övgün.
3. **EMU NEWS:** EMU Physics Department Academic Staff Member Assoc. Prof. Dr. Ali Övgün Delivers a Speech in Bilkent University as an Invited Speaker.
4. **Space.com:** Is Time Travel Possible? Scientists Explore the Past and Future
5. **DISCOVERY NEWS:** Wormhole Wonders: Hunting Down Spacetime Shortcuts
6. **SPACE.COM:** Chasing Wormholes: The Hunt for Tunnels in Space-Time
7. **TUBITAK BILIM VE TEKNIS DERGISI (Kasım 2015):** Samanyolu Gokadasında Solucan Deligi Olasılığı.
8. **EMU NEWS:** Important Research Findings from EMU Physics Department Academic Staff Member and PhD Student.
9. **EMU NEWS:** EMU Physics Program PhD Student Publishes an Article on Hawking Radiation.
10. **EMU NEWS:** EMU Physics Department Academic Staff Members Sakalli and Ovgun's Article Becomes the Most Read Publication in Cyprus.
11. **EMU NEWS:** Important Accomplishment From EMU Department of Physics Academician.
12. **EMU NEWS:** EMU Graduate Dr. Ali Ovgun To Work at CERN
13. **KIBRIS GAZETESİ:** DAU Akademisyeninden Büyük Basarı.
14. **KIBRIS GAZETESİ:** DAU Öğretim Görevlisi Avrupa Fizik Dergisi'nde
15. **KIBRIS GAZETESİ:** DAU Mezunu, CERN'de Çalışacak
16. **DAU HABER:** Dr. Ali Ovgun CERN'de Çalışacak
17. **China DWnews**
18. **SecretChina**
19. **EMU NEWS:** Huge Success from Department of Physics Academic Staff Member Assist. Prof. Dr. Ali Övgün 2018
20. **EMU NEWS:** EMU Department of Physics Academic Staff Member Asst. Prof. Dr. Ali Övgün Receives Outstanding Reviewer Award 2019
21. **DETAY KIBRIS:** Yrd. Doç. Dr. Ali Övgün'e IOP CQG dergisinden 2019 üstün hakem ödülü
22. **EMU NEWS:** 12 EMU Academic Staff Members Listed Among the World's Most Influential Scientists
23. **DETAY KIBRIS:** Dünyanın En Etkili Bilim İnsanları Listesinde DAÜ Fen Ve Edebiyat Fakültesi'nden 5 Akademisyen Yer Aldı
24. **EMU NEWS:** 14 Academics from EMU Appear in the World's Most Influential Scientists List in Stanford University's Study
25. **KIBRIS GAZETESİ:** DAÜ'den 14 akademisyen 'Dünyanın En Etkili Bilim İnsanları' listesinde yer aldı
26. **YENİ ŞAFAK:** DAÜ'den 13 akademisyen Stanford Üniversitesi'nin araştırmasında dünyanın en etkili Bilim İnsanları listesinde yer aldı
27. **KIBRIS POSTASI:** DAÜ Fizik Bölümü Akademisyenleri, Nobellerin Toplantısı'nda oturum başkanlığı yaptı
28. **EMU NEWS:** EMU Physics Department Academic Staff Member Assoc. Prof Dr. Ali Övgün to Conduct Research on Black Holes with the World's Leading Scientists
29. **DAÜ HABER:** DAÜ Fizik Bölümü Öğretim Üyesi Doç. Dr. Ali Övgün Dünyanın Önde Gelen Bilim İnsanlarıyla Karadelik Araştırmaları Yapacak

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30. **DAÜ HABER:** Doğu Akdeniz Üniversitesi'nden 14 akademisyen "Dünyanın En Etkili Bilim İnsanları" listesinde yer aldı!
 31. **EMU NEWS:** 6 Academicians from EMU Faculty of Arts and Sciences Appear in Stanford University's The World's Most Influential Scientists List
 32. **DAÜ HABER:** DAÜ Fen ve Edebiyat Fakültesi'nden 6 Akademisyen Stanford Üniversitesi'nin Araştırmasında Dünyanın En Etkili Bilim İnsanları Listesinde Yer Aldı
 33. **ADVANCED SCIENCE NEWS:** Detecting ultralight dark matter particles using supermassive black holes

CONFERENCES & SUMMER SCHOOLS

- 2007-May, Eskisehir/TÜRKİYE, UFOK-III (3rd National Student Conference of Turkish Physical Society).
- 2007-July, Karlsruhe/Germany, Conference & Summer School- SUSY07.
- 2007-August, Bodrum/TÜRKİYE, ISCBPU-V (5th International Student Conference of Balkan Physical Union).
- 2008-July, ICTP - The Abdus Salam International Centre for Theoretical Physics, Trieste/Italy, Summer School-COSMOLOGY 08.
- 2008-September, Akyaka-Mugla/TÜRKİYE, ISSCSMB08 International Summer School and Conference on Standard Model and Beyond (organized by METU, TUBITAK and ICTP).
- 2009-June, METU Ankara/TÜRKİYE, UFOK-5 (5th National Student Conference of Turkish Physical Society).
- 2009-July, TUBITAK Feza Gursev Theoretical Physics Institute Istanbul/TÜRKİYE, IARS II. National Summer Student School on High Energy Physics (YEF09).
- 2009-July, TUBITAK Feza Gursev Theoretical Physics Institute Istanbul/TÜRKİYE, Lectures on Neutrino Mass and Grand Unified Theories by Goran Senjanovic (ICTP).
- 2009-August, Ambleside- Lancaster/UK, Linear Collider Physics School 2009.
- 2009-August, Akyaka-Mugla/TÜRKİYE, ISSCSMB09 International Summer School and Conference on Standard Model and Beyond(organized by METU, TUBITAK and ICTP).
- 2012-April, METU NCC, Workshop on Recent Developments in High Energy Physics.
- 2013-April, Koc University, Istanbul/TÜRKİYE, 12th Quantization, Dualities and Integrable Systems.
- 2013-May, METU NCC, Workshop on Recent Developments in High Energy Physics.
- 2014-April, Koc University, Istanbul/TÜRKİYE, 13th Quantization, Dualities and Integrable Systems.
- 2015-May, EMU Famagusta, 14th Quantization, Dualities and Integrable Systems.
- 2015-July, FIAS Frankfurt/Germany, 2nd Karl Schwarzschild Meeting on Gravitational Physics.
- 2017-November, Mini-courses on Black hole Chemistry, Prof. Robert Mann, PUCV, CHILE.
- 2017-November, Gravity at UCEN 2017: Black holes and Cosmology. Universidad Central de Chile, Santiago.
- 2017-November, SCHOOL ON NUMERICAL METHODS IN GRAVITY AND HOLOGRAPHY by L.Lehrer, T.Andrade and S.Green. Universidad de Concepcion, Chile.
- 2017-November/December, Sixth Meeting of CosmoConce 2017, Universidad del Bio-Bio, campus Concepcion, Chile.
- From Qubits to Spacetime, Prospects in Theoretical Physics 2018, July 2018, Institute for Advanced Study, Princeton, USA.
- 2019-January, 2. Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2019 (YEFAK2019), Istanbul University, TÜRKİYE.
- 2019-March, The 2nd Physics Days 2019, EMU Famagusta.
- 2021 February, 4. Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2021 (YEFAK2021), Istanbul University, TÜRKİYE.

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- 2021 March, Chairing of the session at International Webinar on Recent Developments in Cosmology and Modified Gravity (RDCM-2021), BITS-Pilani, INDIA.
 - 2021 March, Invited speaker at IUCSS Workshop on Gravitational Aspects of Lorentz Violation, Indiana University, Bloomington USA.
 - 2021 March, Speaker at Beyond Standard Model: From Theory to Experiment (BSM-2021), The Center for Fundamental Physics (CFP) at Zewail City of Science and Technology and Faculty of Engineering and Natural Sciences at Sabancı University.
 - 2021 May, Chairing of the session at Fourth Summer School and Workshop on the Lorentz- and CPT-violating Standard-Model Extension, Indiana University, Bloomington USA.
 - 2021 August, Chairing of the session at GRAVITEX 2021 Durban, KwaZulu-Natal, South Africa.
 - 2021 October, Chairing of the session at 27th International Conference of International Academy Physical Sciences on Advances in Relativity and Cosmology (PARC-2021).
 - 2022 May, Chairing of the session at Frontiers of Fundamental Physics FFP16 International Symposium.
 - 2022 May, Invited Career Day Speaker, Girne 19 Mayıs TMK, Cyprus.
 - 2022 July, Invited talk in the International Conference on Mathematical Sciences and its Applications (ICMSA-2022), India.
 - 2023 March, Chairing of the session at the Second IUCSS Workshop on Gravitational Aspects of Lorentz Violation, Indiana University, Bloomington USA.
 - 2023 March, Invited talk at the Second IUCSS Workshop on Gravitational Aspects of Lorentz Violation, Indiana University, Bloomington USA.
 - 2023 March, Invited talk at the Bilkent University, Applied Mathematics Department, TÜRKİYE.
 - 2023 October, ICTP Workshop on String Theory, Holography, and Black Holes , ICTP - The Abdus Salam International Centre for Theoretical Physics, Trieste, ITALY.
 - 2023 December, Invited speaker, 7 th UMT INTERNATIONAL CONFERENCE ON Pure and Applied Mathematics (7th UICPAM-2023), University of Management and Technology Department of Mathematics, PAKISTAN.
 - Invited Plenary talk at International Conference on Gravitation and Cosmology (ICGC24) 29-31 January 2024, Department of Mathematics and Statistics, The University of Lahore, PAKISTAN.
 - Chairing of the session at the Fifth IUCSS Summer School and Workshop on the Lorentz- and CPT-violating Standard-Model Extension, Indiana University, Bloomington USA, May 2024.

TALKS

- Probing Schwarzschild-like Black Holes in Metric-Affine Bumblebee Gravity with Accretion Disk, Deflection Angle, Greybody Bounds, and Neutrino Propagation, Fifth IUCSS Summer School and Workshop on the Lorentz- and CPT-violating Standard-Model Extension Indiana University, Bloomington USA, May 2024.
- Unveiling the Impact of Fuzzy Dark Matter on Supermassive Black Holes: Probing the Quantum Realm. Invited Plenary talk at International Conference on Gravitation and Cosmology (ICGC24) 29-31 January 2024, Department of Mathematics and Statistics, The University of Lahore, PAKISTAN 2024 January.
- Black hole in quantum wave dark matter. Invited speaker at 7th UMT INTERNATIONAL CONFERENCE ON Pure and Applied Mathematics (7 th UICPAM-2023), University of Management and Technology Department of Mathematics, PAKISTAN 2023 December.
- Can we spot modified gravity black holes? Invited talk in the Bilkent University, Applied Mathematics Department, TÜRKİYE 2023 March.
- Can We Spot The Black Holes in Lorentz-Symmetry-Breaking Theories? Invited talk in the Second IUCSS Workshop on Gravitational Aspects of Lorentz Violation, Indiana University, Bloomington USA, March 2023.
- Invited talk in the Sabancı University, Istanbul, TÜRKİYE 2022 July.
- Can We Spot The Black Holes in Modified Gravity Theories? Invited talk in the International Conference on Mathematical Sciences and its Applications (ICMSA-2022), India, 2022 July.

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- Ağacın Gölgesinden, Karadeliğin Gölgesine, Ankara Üniversitesi Fizik Bölümü Pop Fizik Seminerleri May 26th, 15:30
 - Testing Modified Gravity Theories Using Weak Deflection Angle and Black Hole Shadow, Virtual Friday Cosmology Seminar @ Szczecin Cosmology Group - May 20th, 13:30
 - Weak field deflection angle by regular black holes with cosmic strings, Beyond Standard Model: From Theory to Experiment (BSM-2021), The Center for Fundamental Physics (CFP) at Zewail City of Science and Technology and Faculty of Engineering and Natural Sciences at Sabancı University, March 2021.
 - Black Hole with Global Monopole and Wormhole Solutions in Bumblebee Gravity, IUCSS Workshop on Gravitational Aspects of Lorentz Violation, Indiana University, Bloomington USA, March 2021.
 - Testing Modified Gravity Theories Using Weak Deflection Angle and Black Hole Shadow, RDCM-2021, BITS-Pilani, India, March 2021.
 - Weak Deflection angle of Extended Uncertainty Principle Black holes, with my PhD Student Yashmitha Kumaran RDCM-2021, BITS-Pilani, India, March 2021.
 - Zayıf Sapma Açısı ve Kara Delik Gölgesini Kullanarak Modifiye Yerçekim Teorilerini Test Etmek, YEFAK2021, Istanbul University, TÜRKİYE, February 2021.
 - Light Deflection by Blackholes/Wormholes Using Gauss-Bonnet Theorem, The 2nd Physics Days 2019, EMU, Famagusta, March 2019.
 - Weak gravitational lensing and Gibbons-Werner method, YEFAK2019, Istanbul University, TÜRKİYE, January 2019.
 - Light Detection by Wormholes and Gibbons-Werner method, Department of Physics and Astronomy, University of Waterloo, Canada, 15 January 2018.
 - Thin-shell Wormholes/Gravastars. Universidad del Bio-Bio, campus Concepcion, Chile. 2017-November/December. Sixth Meeting of CosmoConce 2017.
 - Hidden gates in universe: Wormholes. Universidad Central de Chile, Santiago. November 2017, Gravity at UCEN 2017: Black holes and Cosmology,
 - Thin-shell Wormholes and Gravastars, Universidad de Valparaiso (UV), Chile, November 2017, Seminarios Astrofisicos.
 - Thin-shell Wormholes and Gravastars, Pontificia Universidad Catolica de Valparaiso (PUCV), Chile, September 2017, Seminario del grupo de Gravitacion, Cosmologia y Astrofisica.
 - Particle Collision near 1+1 Dimensional Horava-Lifshitz Black Holes, FIAS Frankfurt, Germany July 2015, Workshop KSM2015.
 - Particle Collision near 1+1 Dimensional Horava-Lifshitz Black Holes, EMU, May 2015, Workshop QDIS14.
 - Thin-shell wormholes from the regular Hayward black hole, Koc University Istanbul/TÜRKİYE, April 2014, Workshop QDIS13.
 - Thin-shell wormholes from the regular Hayward black hole, IYTE Izmir/TÜRKİYE, Jan 2014, Seminar.
 - Thin-shell wormholes from the regular Hayward black hole, EMU, Dec 2013, Seminar.
 - Dark Matter Modification of $f(R)$ or Wimps Miracle, EMU, Jan 2013, Master Thesis Defense.
 - The Mystery of Mass, Eskisehir/TÜRKİYE, May 2007, 3rd National Conference of Physics Students (UFOK-3).
 - The Dark Side of the Cosmos, Izmir/TÜRKİYE, December 2008, IYTE Physics Society.
 - String Theory, METU Ankara/TÜRKİYE, June 2009, 5th National Conference of Physics Students (UFOK-5).

REFERENCES

1. **Durmus A. DEMIR Professor** Sabancı University, Istanbul, TÜRKİYE.
2. **Mustafa HALILSOY Professor** Department of Physics, EMU, TÜRKİYE.
3. **Joel SAAVEDRA Professor** Vice-Rector of Research and Advanced Studies, PUCV, CHILE.
4. **Eduardo GUENDELMAN Professor** Department of Physics, Ben-Gurion University of the Negev, Beer-Sheva, ISRAEL.
5. **Robert MANN Professor** Department of Physics and Astronomy University of Waterloo University Avenue West Waterloo, Ontario, CANADA.
6. **Douglas SINGLETON Professor** Interim Department Chairman of Physics, California State University, Fresno, USA.
7. **Leonard SUSSKIND Professor** Stanford Institute for Theoretical Physics, Stanford, CA, USA.