



Suat DENGIZ, PhD

Curriculum Vitae

Education and Professional Experiences

- 2015-2016 **Postdoctoral Researcher**, MIT-Massachusetts Institute of Technology, Center for Theoretical Physics (Cambridge, MA, USA),
Research Titles: Alternative Quantum Gravity Approaches / Faddeev-Jackiw Quantization for the Spin- $\frac{3}{2}$ Quantum Fields / Soft Particle Models
Advisor: Prof. Roman JACKIW (Winner of Dirac Medal and Heineman Prize).
- 2014-2015 **Postdoctoral Researcher**, Middle East Technical University, Department of Physics (Ankara, Turkey),
Research Titles: Weyl-gauged Quantum Gravity Models / Ricci and Conformal Geometric Flows
Advisor: Prof. Bayram TEKIN (Known from Abbott-Deser-Tekin (ADT) Conserved Charges).
- 2011-2014 **PhD in Theoretical Physics**, Middle East Technical University (Ankara, Turkey),
Title: Weyl-invariant Higher Curvature Gravity Theories in n Dimensions and Mass Generation via Symmetry Breaking
Supervisor: Prof. Bayram TEKIN.
- 2009-2011 **Master in Theoretical Physics**, Middle East Technical University (Ankara, Turkey),
Title: 3+1 Orthogonal and Conformal Decomposition of Einstein Equation and ADM Formalism for General Relativity
Supervisor: Prof. Bayram TEKIN.
- 2004-2008 **Bachelor in Physics Engineering**, Hacettepe University (Ankara, Turkey),
Undergrad Research Topic: Cartan Algebra, P-Forms and Connections
Advisor: Prof. Metin ONDER (passed away).

Working Experiences

- 2021-Present **Member of the Engineering Faculty Governance Committee**, UTAA.
- 2020-Present **University Senate Member**, UTAA.
- 2020-Present **Dean of Graduate School of Natural and Applied Sciences**, UTAA.
- 2018-Present **Associate Professor in Theoretical Physics**, UTAA.
- 2019-Present **Project funded by TUBITAK (with Ercan KILICARSLAN and Anupam MAZUMDAR)**,
(Title: "Exact solutions of infinite derivative gravity," Project No: 119F241).
- 2018-2021 **Physics Group Coordinator**, University of Turkish Aeronautical Association.
- 2018-Present **Assistant Professor**, UTAA, Department of Mechanical Engineering.
- 2017-2018 **Part-Time Lecturer**, Eastern Mediterranean University, Departments of Physics and Chemistry (Cyprus).
- 2011-2014 **Project Assistant**, Middle East Technical University, Department of Physics.
◦ "Cosmology of Born-Infeld-type gravity theories," 113F155 supported by The Scientific And Technological Research Council of Turkey (TUBITAK) 2013-2014.
◦ "Determining spin parameter of the black hole system XTE J 1550-564 from the X-ray spectrum," 109T748 supported by TUBITAK 2011-2013 (Coordinator: Prof. Altan BAYKAL).
- 2010-2013 **Lecturer**, Middle East Technical University, Department of Physics.
◦ Several informal group lectures on "gravity and quantum field theories"
- 2012-2013 **Teaching Assistant**, Middle East Technical University, Department of Physics.
◦ Methods of Mathematical Physics II (Ph.D. Course).

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- 2011-2012 *Teaching Assistant*, Middle East Technical University, Department of Physics.
 ◦ Methods of Mathematical Physics I (M.Sc. Course).
- 2009-2011 *Teaching Assistant*, Middle East Technical University, Department of Physics.
 ◦ Fundamental Physics Laboratories.

Publications, Pre-prints and On-going Projects

1. S. Dengiz, “A new complete model of cubic and quartic (quantum) gravity,” **On-going (2023)**.
2. Cemal Balıkçı, Masoud Latifinavid, and S. Dengiz, “Aircraft failures prediction via adaptive neuro-fuzzy inference system,” **Under Review (2023)**.
3. Ivan Kolár, Tomas Malek, S. Dengiz, and Ercan Kilicarslan, “Exact gyratons in higher and infinite derivative gravity,” **Phys.Rev.D 105 (2022) 4, 044018**.
4. M. Reza Setare, S. Naseh Sajadi S. Dengiz, and Ercan Kilicarslan, “New Chiral Generalized Minimal Massive Gravity,” **Phys. Rev. D 104, 066004 (2021)**.
5. S. Dengiz, Ercan Kilicarslan, Ivan Kolár and Anupam Mazumdar, “Impulsive waves in ghost free infinite derivative gravity in anti-de Sitter spacetime,” **Phys. Rev. D 102, 044016 (2020)**.
6. S. Dengiz, Ercan Kilicarslan and M. Reza Setare, “Lee-Wald Charge and Asymptotic Behaviors of the Weyl-invariant Topologically Massive Gravity,” **Class. Quantum Grav. 37 (2020) 215016**.
7. Atanu Bhatta, Shankhadeep Chakraborty, S. Dengiz and Ercan Kilicarslan, “High Temperature Behavior of Non-Local Observables of Strongly Coupled Boosted Plasma: A Holographic Study,” **Eur. Phys. J. C (2020) 80:663**.
8. S. Dengiz, “Note on Soft Photons and Faddeev-Jackiw Symplectic Reduction of Quantum Electrodynamics in the Eikonal Limit,” **Int.J.Mod.Phys. A33 (2018) 1830020**.
9. S. Dengiz, “A Note on Noncompact and Nonmetricit Quadratic Curvature Gravity Theories,” **Turk J Phys, 42, (2018), 70-77**.
10. S. Dengiz, “A Noncompact Weyl-Einstein-Yang-Mills Model: A Semiclassical Quantum Gravity,” MIT-CTP-4834, **Annals of Physics 383C (2017) 560-578**.
11. S. Dengiz, “Faddeev-Jackiw Hamiltonian Reduction for Free and Gauged Rarita-Schwinger Theories,” MIT-CTP-4768, **Eur. Phys. J. C (2016) 76:566**.
12. E. Kilicarslan, S. Dengiz and B. Tekin, “More on Cotton flow,” **JHEP 1506 (2015) 136**.
13. S. Dengiz, E. Kilicarslan and B. Tekin, “Scattering in Topologically Massive Gravity, Chiral Gravity and the Anyon-Anyon Potential Energy,” **Phys. Rev. D 89, 024033 (2014)**.
14. S. Dengiz, E. Kilicarslan and B. Tekin, “Weyl-gauging of Topologically Massive Gravity,” **Phys. Rev. D 86, 104014 (2012)**.
15. M.R. Tanhayi, S. Dengiz and B. Tekin, “Weyl-Invariant Higher Curvature Gravity Theories in n Dimensions,” **Phys. Rev. D 85, 064016 (2012)**.
16. M.R. Tanhayi, S. Dengiz and B. Tekin, “Unitarity of Weyl-Invariant New Massive Gravity and Generation of Graviton Mass via Symmetry Breaking,” **Phys. Rev. D 85, 064008 (2012)**.
17. S. Dengiz and B. Tekin, “Higgs Mechanism for New Massive Gravity and Weyl-Invariant Extensions of Higher Derivative Theories,” **Phys. Rev. D 84, 024033 (2011)**.

Editorial Board and Referee Duties

Referee at TUBITAK or Other International Institutions

1. 2022-2236, Referee for the TUBITAK-European Union Co-Funded Brain Circulation Scheme 2 (CoCirculation2) Fellowship Program.
2. 2021-1, Referee for PRELUDIUM, Panel: ST2 (Fundamental constituents of matter) (National Science Centre, Poland).
3. 2020-1, Referee for the Projects in Theoretical Physics (TUBITAK).
4. 2019-2, Referee for the Projects in Theoretical Physics (TUBITAK).
5. 2019-2236, Referee for the TUBITAK-European Union Co-Funded Brain Circulation Scheme 2 (CoCirculation2) Fellowship Program.

Member of Editorial Board

- International Journal of High Energy Physics, Science Research Association Journal of Physics.

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Referee for

1. Frontiers in Physics.
2. Classical and Quantum Gravity.
3. Physica Scripta.
4. Advances in High Energy Physics.
5. International Journal of Theoretical Physics.
6. Central European Journal of Physics.
7. World Journal of Human Sciences (Ulakbim TUBİTAK).

My Drawing of Higgs-Potential at Peter Higgs' 90th Birthday (also known as the discoverer of the God Particle)

Click on the: [Peter Higgs' 90th Birthday Celebration at the Higgs Centre for Theoretical Physics.](#)

Seminars, Workshops, Conferences, and Lectures

BOUN-METU-UTAA Joint International Seminar Series

2021-Ongoing [Organizing Committee](#), BOUN-METU-UTAA Monthly Joint Seminar Series.
(Click: <https://sites.google.com/view/boun-metu-utaajointseminerseri/home>)

Conferences, Talks and Seminars Organized

1. Member of Organizing and Scientific Committee, **The 2nd Physics Days Meeting**, Eastern Mediterranean University, Famagusta, Northern Cyprus, March 21-22, 2019. (Link: <https://physicsdays.emu.edu.tr/en>)
2. Speaker: Ömür Erdinç Dagdeviren, YALE/McGILL University, “Recent Advances in Scanning Probe Microscopy and Applications to Exotic Materials and Systems” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, July 20, 2018. (Organizer: S.Dengiz.)
3. Speaker: Zeynep Acuner, Oskar Klein Centre, KTH Royal Institute of Technology, “Discovering the Mysteries of Gamma-Ray Bursts via Fermi Telescope” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, July 16, 2018. (Organizer: S.Dengiz.)
4. Speaker: Ahmet Can Musabeyoglu, MIT/Amazon, “Bringing Electricity to Off-Grid Regions Using Ad Hoc DC Microgrids” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, July 05, 2018. (Organizer: S.Dengiz.)
5. Speaker: Abdulkadir Canatar, HARVARD, “Suspended Graphene: Applications and Fabrication” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, June 20, 2018. (Organizer: S.Dengiz.)
6. Speaker: Soner Albayrak, YALE, “Light-cone Limit Analysis of Four Fermion Point Functions” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, May 29, 2018. (Organizer: S.Dengiz.)
7. Speaker: Prof. Dr. Altan Baykal, Middle East Technical University, “Neutron Star Interior and Exterior Torque Mechanism” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, May 11, 2018. (Organizer: S.Dengiz.)
8. Speaker: Prof. Dr. Altug Ozpineci, Middle East Technical University, “Accelerators: Their Industry Applications and Particle Physics” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, May 09, 2018. (Organizer: S.Dengiz.)
9. Speaker: Prof. Dr. Sitki Cagdas Inam, Baskent University, “X-ray Astronomy and NASA's Mission” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, April 25, 2018. (Organizer: S.Dengiz.)
10. Speaker: Bilge Tuncel, Middle East Technical University, “Thermal Modeling of PV Module Temperature and Yield and Its Verification” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, April 18, 2018. (Organizer: S.Dengiz.)

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11. Speaker: Prof. Dr. Bulent G. Akinoglu, Middle East Technical University, “*Toward Renewable Energy: Do Water, Wind and Sun on Earth Have Enough Potential to Supply Future Energy Demand?*” **Mechanical Engineering and Astronautical Engineering Joint Applied Science Seminar**, University of Turkish Aeronautical Association, Ankara, April 11, 2018. (Organizer: S.Dengiz.)

National and International Meetings Attended or Talks Given

1. S.Dengiz, “*Towards A Complete Quantum Gravity*”, **Seminar**, İzmir Institute of Technology, Department of Physics, (Online), December 22, 2020.
2. S.Dengiz, “*The Edge of Universe: Black Holes*”, **Seminar**, Baskent University, Faculty of Engineering, Ankara, April 26, 2019. (*Invited Speaker*).
3. S.Dengiz, “*Theory of Everything*”, **Seminar**, Middle East Technical University, Department of Chemistry (The Dengiz Research Group), Ankara, January 02, 2019. (*Invited Speaker*).
4. S.Dengiz, “*Her şeyin Teorisi*”, **Seminar**, University of Turkish Aeronautical Association IEEE ve AESS Student Communities, Ankara, December 20, 2018.
5. S. Dengiz, “*Weyl-gauged Topologically Massive Gravity*”, **16th Workshop on Dualities and Integrable Systems**, Mimar Sinan Fine Arts University, Istanbul, April 21-23, 2018. (*Talk Given*).
6. S. Dengiz, “*Weyl-gauged Higher Curvature Gravity Theories and the Spontaneous Generation of Masses of Particles*”, **Physics Departmental Seminar**, Mimar Sinan Fine Arts University, Istanbul, December 29, 2016, Turkey. (*Talk Given*).
7. **The International Workshop on Flat Holography**, The Simons Center for Geometry and Physics, Stony Brook University, New York, April 4-8, 2016, USA.
8. **The Morris Loeb Lectures in Physics: "Black Holes, Gravity and Quantum System"**, Harvard University, Cambridge, March 21-25, 2016, USA. (*Lecturer: Juan MALDACENA*).
9. **The Spring 2016 Course: The Infrared Structure of Gravity and Gauge Theory**, Harvard University, Cambridge, Spring, 2016, USA. (*Lecturer: Andrew STROMINGER*).
10. **Several Talks on High Energy Physics**, MIT, Center for Theoretical Physics/Laboratory for Nuclear Science, Cambridge, 2015-2016, USA.
11. S. Dengiz, “*Weyl-gauging of Higher Derivative Theories and Spontaneous Symmetry Breaking*”, **The National Workshop: High Energy Physics Days**, Middle East Technical University, Ankara, February 12-14, 2015, Turkey. (*Talk Given*).
12. **13th Workshop on Quantization, Dualities and Integrable Systems**, Koc University, Istanbul, April 19-20, 2014, Turkey.
13. S. Dengiz, “*Higgs-type mechanism for graviton*”, **11th Workshop on Quantization, Dualities and Integrable Systems**, Pamukkale University, Denizli, April 21-23, 2012, Turkey. (*Talk Given*).
14. S. Dengiz, “*Higgs Mechanism for New Massive Gravity and Weyl-invariant Extensions of Higher Derivative Theories*”, **The National Workshop: High Energy Physics Days**, Ankara University, Ankara, December 27-30, 2011, Turkey. (*Talk Given*).
15. S. Dengiz, “*Higgs Mechanism for Weyl-gauged Higher Curvature Gravity Theories*”, **The International Workshop on Recent Advances in Quantum Field and String Theories**, Free University, Tbilisi, September 26-30, 2011, Georgia. (*Invited Speaker*).
16. **The International Conference on Strings, Branes and Supergravity**, Koc University, Istanbul, August 1-5, 2011, Turkey.
17. **9th Workshop on Quantization, Dualities and Integrable Systems**, Yeditepe University, Istanbul, April 23-25, 2010, Turkey.

Other Meetings The Publications Presented

1. S. Dengiz, E. Kilicarslan and B. Tekin, “*Interactions Between The Topologically Massive Gravitational Anyons in 2 + 1-Dimensions*”, **National Workshop: High Energy Physics Days**, Middle East Technical University, Ankara, February 12-14, 2015, Turkey. (*Speaker: E. Kilicarslan*).
2. S. Dengiz, E. Kilicarslan and B. Tekin, “*Unification of Topologically Massive Gravity and Topologically Massive Gauge Theory*”, **12th Workshop on Dualities and Integrable Systems**, Koc University, Istanbul, April 20, 2013. (*Speaker: E. Kilicarslan*).
3. S. Dengiz and B. Tekin, “*Higgs Mechanism for NMG and Weyl invariant Extensions of Higher Derivative Theories*”, **International Workshop: Extra Dimensions in the Era of the LHC**, Osaka University, Osaka, Japan, December 12-14, 2011. (*Speaker: B. Tekin*).

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Courses Given

- Spring, 2023 *Dynamics*, UTAA.
- Spring, 2023 *Mechanical Vibrations*, UTAA.
- Fall, 2022 *Advanced Engineering Mathematics II (Graduate)*, UTAA.
- Fall, 2022 *Statics*, UTAA.
- Smr, 2022 *Electronic Circuits*, UTAA.
- Spring, 2022 *Advanced Engineering Mathematics I (Graduate)*, UTAA.
- Spring, 2022 *Machine Theory I*, UTAA.
- Fall, 2021 *Advanced Engineering Mathematics I (Graduate)*, UTAA.
- Fall, 2021 *Machine Theory I*, UTAA.
- Spring, 2021 *Mechanical Vibrations*, UTAA.
- Spring, 2021 *Dynamics*, UTAA.
- Fall, 2020 *Mechanical Vibrations*, UTAA.
- Fall, 2020 *Physics-I*, UTAA.
- Smr, 2020 *Dynamics*, UTAA.
- Spring 2020 *Introduction to Quantum Physics*, UTAA.
- Spring, 2020 *Mechanical Vibrations*, UTAA.
- Spring, 2020 *Physics-II*, UTAA.
- Spring, 2020 *Dynamics*, UTAA.
- Fall, 2019 *Introduction to Plasma Physics and Engineering*, UTAA.
- Fall, 2019 *Mechanical Vibrations*, UTAA.
- Fall, 2019 *Physics-I*, UTAA.
- Smr, 2019 *Physics-I*, UTAA.
- Spring, 2019 *Physics-II*, UTAA.
- Fall, 2018 *Physics-I*, UTAA.
- Smr, 2018 *Physics-II*, UTAA.
- Spring, 2018 *Dynamics*, UTAA.
- Spring, 2018 *Physics-II*, UTAA.
- Fall, 2017 *Special Topics in General Relativity-IV*, Eastern Mediterranean University (PhD Course/Cyprus).
- Fall, 2017 *Physics-I*, Eastern Mediterranean University (Cyprus).
- Fall, 2017 *Physics-II*, Eastern Mediterranean University (Cyprus).

Student Supervisions

Graduate Student Supervisions

1. Jean Steve KIJULI, **Thesis Title:** "Types of Aircraft Engines." (**Co-supervisor:** Dr. Aviator Brigadier General Cemal BALIKÇI (On-going)).
2. Sankara DERRICK, **Thesis Title:** "Aeroelasticity of Airfoils and Wings Structure in Aircraft Design." (**Co-supervisor:** Dr. Aviator Brigadier General Cemal BALIKÇI (On-going)).
3. Hasan Mert DİNLETEN, **Thesis Title:** "Investigation of the Vibration-Damping properties of Additively Manufactured Structures." (**Co-supervisor:** Assist. Prof. Dr. Hamit TEKİN (On-going)).
4. Samet Emre BİLİM, **Thesis Title:** "Investigation of Machinability of GG25 Grey Cast Iron." (**Co-supervisor:** Assoc.. Prof. Dr. Muhammed ARAS (On-going)).

Undergraduate Senior Project Supervisions

1. Ramazan ÖZTÜRK, **Project Title:** "Aeroelasticity of Airfoils and Wings Structure in Aircraft Design."
2. Yusuf Serhat UZUN, **Project Title:** "Principles of Stability and Control in Aircrafts."
3. Ahmet Eren ÇUHADAR, **Project Title:** "Aircraft piston (reciprocating) Engines and Propellers."
4. Eray ARSLAN, **Project Title:** "Turbojet and Turbofan Engines in Aircrafts."
5. Fatma Nur HERGÜL, **Project Title:** "Turboshaft, Turboprop and Propfan Engines in Aircrafts."

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6. Fethi ŞAHİNER, **Project Title:** "Ramjet, Scramjets, and Pulsejets Engines in Aircrafts."
7. Semanur SARAY, **Project Title:** "Mechanical Vibration Types and Their Applications."
8. Müjde AYDIN, **Project Title:** "Design and Control of a 3-axis Gimbal."
9. Adil ALTUN, **Project Title:** "Orbital Mechanics for Satellites."
10. Yılmaz ALBUNAR, **Project Title:** "Attitude Parametrization: Euler Angles and Quaternions."
11. Onur ÖZTÜRK, **Project Title:** "Spacecraft Dynamics."
12. Mehmet Ali KOC, **Project Title:** "Attitude Control."
13. Hasan Taha GULATIK, **Project Title:** "Magnetorquer Design and Satellite Control Theory."
14. Salih KARACA, **Project Title:** "Simulation of Cube satellite Controllers."

Computer Skills

Advanced L^AT_EX, Linux, Mathematica, MS Office, MS Windows.

Languages

Advanced English (Higher Education Institutions Foreign Language (YÖKDİL-2021) Score: 95/100.)

Research Area and Scientific Interests

Theoretical High Energy and Mathematical Physics.

1. Classical and Quantum Gravity.
2. Quantum Field Theories.
3. Early Universe, Cosmology, Black Holes and Holography.
4. High Energy Particle Physics
5. Classical Mechanical Vibrations, Dynamics and Statics

References

- ***Prof. Dr. Bayram TEKIN***, Middle East Technical University, Department of Physics (MSc, Ph.D. and Postdoc Supervisors, Collaborator).
◦ Email: btekin@metu.edu.tr, Phone: +90 312 210 4340.
- ***Prof. Dr. Anupam MAZUMDAR***, University of Groningen, Van Swinderen Institute for Particle Physics and Gravity (Collaborator).
◦ Email: anupam.mazumdar@rug.nl, Phone: +31 6 1494 8160.
- ***Prof. Dr. Hasan ERBAY***, President of University of Turkish Aeronautical Association.
◦ Email: herbay@thk.edu.tr, Phone: +90 444 8458.
- ***Prof. Dr. Roman JACKIW***, MIT-Massachusetts Institute of Technology, Center for Theoretical Physics (Postdoc Advisor).
◦ Email: jackiw@mit.edu, Phone: +1 617 253-4830.
- ***Prof. Dr. Atalay KARASU***, Middle East Technical University, Department of Physics.
◦ Email: karasu@metu.edu.tr, Phone: +90 312 210 3295.
- ***Prof. Dr. Ayse KALKANLI KARASU***, Middle East Technical University, Department of Physics.
◦ Email: akarasu@metu.edu.tr, Phone: +90 312 210 5070.
- ***Prof. Dr. Altan BAYKAL***, Middle East Technical University, Department of Physics.
◦ Email: altan@astroa.physics.metu.edu.tr, Phone: +90 312 210 5077.
- ***Prof. Dr. Bulent G. AKINOGLU***, Middle East Technical University, Department of Physics.
◦ Email: bulent@newton.physics.metu.edu.tr, Phone: +90 312 210 5064.