

FULL CURRICULUM VITAE**PERSONAL DATA**

Full Name: Mustafa HALILSOY*.

Date and Place of Birth: February 25, 1949, Ayios Nicholoas (Paphos) - Cyprus.

Nationality: TRNC and Cyprus Republic.

Marital Status: Married with three children (b. 1980, 1982, 1991)

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***My surname was HALIL (i.e. my father's name) until 1980. Since then, by a surname law of Cyprus Turkish Federated State my surname has been changed into HALILSOY. This distinction is evident from my published papers and diplomas.**

****Mersin 10 is a code number for Northern Cyprus. After the Cyprus war in 1974, any external communication to Northern Cyprus is made via Turkey.**

ACADEMIC QUALIFICATIONS

- **1978 PhD** in Physics, METU, Ankara-TURKEY
- **1975 MS** in Physics, METU, Ankara-TURKEY
- **1973 BS** in Physics, METU, Ankara-TURKEY
- **1967** Secondary School Education in 19th May Lycee, Limassol-Cyprus

Ph. D. Thesis Title

“Colliding Gravitational Waves in General Relativity”

M.S. Thesis Title

“Radiative Corrections to One Boson Exchange Potentials”

WORK EXPERIENCE

- **1975 →1976** Teaching Assistant, Dept of Phys. **METU**, Ankara TURKEY
- **1976→1977** Research Fellow, University of **TEXAS**, AUSTIN.
- **1977→1978** Physics Lecturer, Dept. of Phys. **METU**, Ankara TURKEY
- **1978→1981 Asst. Prof.**, Dept. of Phys. **METU**, Ankara TURKEY.
- **1981 →1983 Asst. Prof.**, Dept. of Nuclear Engineering and Physics, **King Abdulaziz University**, Jaddah S. ARABIA.
- **1984 Assoc. Prof.** Dept. of Nuclear Engineering and Physics, **King Abdulaziz University**, Jaddah S. ARABIA.
- **1988, Prof.** Dept. of Nuclear Engineering and Physics, **King Abdulaziz University**, Jaddah S. ARABIA.
- **1990 →Present, Prof.**, EMU, G.Magosa TRNC.
- **2005→Chairman** of Dept of Physics and Chemistry, **EMU**, Famagusta TRNC.

LANGUAGES: Proficient in Turkish (native), English (excellent).

RESEARCH INTERESTS

- **General Relativity.**
- **Non-Linear Problems of Physics.**
- **Colliding Waves.**
- **Black Holes and Wormholes.**
- **New Solutions in the Einstein’s Theory.**
- **String Theory.**
- **Higher Dimensions in General Relativity.**
- **Philosophy of Physics.**
- **Chaos Theory**

SOME COURSES THAT I HAVE TAUGHT

- * General Physics (PHYS101 and PHYS102).
- * Modern Physics (PHYS201).
- * Classical Mechanics (PHYS521).
- * Classical Electrodynamics (PHYS522).
- * Quantum Mechanics (PHYS551).
- * Methods in Mathematical Physics (PHYS511).
- * Selected Topics in General Relativity (PHYS603, PHYS605, and PHYS607).
- * Theoretical Physics Seminar (PHYS601).
- * Nuclear Physics

M.Sc. STUDENTS:

1. **Ahmed Al-Badawi:** "Particle Wave Collision in General Relativity", 1994.
2. **Murad Qubbaj:** "The Visual Appearance of Rapidly Moving Objects", 1995.
3. **Maen Odeh:** "Specular Reflection of Light Off Light", 1997.
4. **Mehmet Kuşaf:** "The Physics of Tachyons", 1998.
5. **Mehmet Ali Süzen:** "The Chaotic Behavior of Geodesics in Non-Homogenous Vacuum pp-wave Solutions", 2000.
6. **Hamide Güzen:** "Einstein's Four Tests of Gravity", 2000.
7. **İzzet Sakallı:** "Particle Motion in a Uniform Electromagnetic Universe", 2000.
8. **Halil Alkım:** "The Black Holes", 2002.
9. **Elif Halilsoy:** "Linear Dilaton Black Holes and Colliding Waves", 2004.
10. **Bosaina Nazzal:** "Physics of Tsunamis", 2007.
11. **Mehmet Z. Yetik:** "Introduction to Lighting" 2008.
12. **Zahra Amirabi:** "Spacetime Wormholes" 2008.
13. **Ali Övgün:** "Dark Matter; Modification of F(R) or Wimps Miracle", 2013.
14. **Najm Abdola Saleh:** "Physics on the Rotating Earth", 2013.
15. **Jo-Kim Dauda Sharon:** "Geodesics on Cosmic Landscapes of Colliding Plane" 2015.
16. **Mohammad Em. F. Ali:** "Kronig-Penney and Delta-Potential Models in Quantum Mechanics.

Ph.D. STUDENTS:

1. **Özay Gürtuğ:** "New Extensions of the Colliding Wave Solutions in General Relativity", 1997.
2. **Ahmed Al-Badawi:** "Mass in a Uniform Electric Field and Energy Amplification in General Relativity", 1998.
3. **İzzet Sakallı:** "Solution of the Dirac Equation in the Non-Asymptotically Flat Geometries", 2004.
4. **Alireza Lajevardipour:** "Thermomechanical Properties of Grapheme,"
5. **Hale Paşaoğlu:** "Information Loss Problem in Linear Dilaton Black Holes"
6. **Zahra Amirabi:** "Stability of Space - time Wormholes"
7. **Akbar Abbasi:** Environmental Radiation in High Exposure Building Materials.
8. **Ali Övgün:** "Studies on Thin-shells and Thin-shell Wormholes.

LIST OF PUBLICATIONS

- 1) Y.Nutku and M.Halil, **Phys. Rev. Lett.** **39**, 1379-1382 (1977). “Colliding Impulsive Gravitational Waves”
- 2) M.Gurses and M.Halil, **Phys. Lett.** **68A**, 1982-1985 (1978). “PP-Waves in the Generalized Einstein Theories”
- 3) M.Halil, **Phys. Rev.** **D18**, 1272-1276 (1978). “Simple Model for Vector Bosons”
- 4) M.Halil, **Jour. Math. Phys.** **20**, 120-126 (1979). “Colliding Plane Gravitational Waves”
- 5) C.Yalcin, M.Halil and E.Aksahin, **Physica Scripta** **20**, 36-39 (1979). “The Charge-Asymmetry of Two Nucleon Interaction in Nuclear Forces”
- 6) M.Gurses and M.Halil, **Lett. Nuovo Cimento** **27**, 562-565 (1980). “On the Connection for the Brans-Dicke-Jordan Theory”
- 7) M.Halilsoy, **Phys. Lett.** **84A**, 359-360 (1981). “Comment on Colliding Plane Gravitational Waves”
- 8) M.Halilsoy, **Phys. Lett.** **84A**, 404-406 (1981). “A Method for Generating New Solutions in General Relativity”
- 9) M.Halil, **International Jour. Theo. Phys.** **20**, 911-919 (1981). “Particle Motion in BS Space-Time”
- 10) M.Gurses and M.Halilsoy, **Lett. Nuovo Cimento** **34**, 588-592 (1982). “Interacting Superposed Shock Electromagnetic Waves”
- 11) M.Halilsoy, **Lett. Nuovo Cimento** **37**, 231-236 (1983). “Similarity Solution of Ernst Equation With Electromagnetic Fields”
- 12) M.Halilsoy, **Gen. Rel. Grav.** **15**, 1115-1120 (1983). “On the Generation of a Class of Einstein-Maxwell Solutions”
- 13) M.Halilsoy, **Lett. Nuovo Cimento** **44**, 88-90 (1985). “A Class of Transcendent Solution to Ernst System”
- 14) M.Halilsoy, **Lett. Nuovo Cimento** **44**, 544-547 (1985). “Scalar Plane Waves in General Relativity”
- 15) M.Halilsoy, **Jour. Engg.&App. Sci. (Pergamon)** **3**, 125-135 (1986). “Reduction of Certain Classes of Partial Differential Equations”
- 16) M.Halilsoy, **Europhysics Lett.** **1**, 375-377 (1986). “On a Class Transcendent Solution in EM Theory”
- 17) M.Halilsoy, **Phys. Rev.** **D33**, 3127-3129 (1986). “Similarity Solutions for Self-Dual SU(2) Fields”
- 18) M.Halilsoy, **Il Nuovo Cimento** **99B**, 95-101 (1987). “Interacting EM Waves in General Relativity”
- 19) A. M.Saatci and M.Halilsoy, **The Chem. Engg. Jour.** **34**, 147-150 (1987). “A New Solution of the Deep Bed Filtration”
- 20) A. M.Saatci and M.Halilsoy, **Jour. Of the Envir. Engg. Division American Society of Civil Engg.** **113**, 675-678 (1987). “Critique of Camp and Steins’s RMS Velocity Gradients”
- 21) M.Halilsoy, **Jour. Math. Phys.** **29**, 320-326 (1988). “Studies in Space-Times Admitting Two Space-Like Killing Vectors”
- 22) M.Halilsoy, **Phys. Rev.** **D37**, 2121-2126 (1988). “Colliding EM Shock Waves in General Relativity”
- 23) M.Halilsoy, **Phys. Rev.** **D38**, 2979-2985 (1988). “Distinct Family of Colliding Waves in General Relativity”
- 24) M.Halilsoy, **Il Nuovo Cimento** **102B**, 563-571 (1988). “Cross-Polarized Cylindrical Gravitational Waves of Einstein and Rosen”
- 25) M.Halilsoy, **Phys. Rev.** **D39**, 2172-2178 (1989). “Colliding Superposed Waves in EM Theory”
- 26) M.Halilsoy, **Engg. Sci.** **1**, 1-15 (1989). “Similarity Analysis for the Gravitational Field”
- 27) M.Halilsoy, **Jour. Math. Phys.** **31**, 2694-2698 (1990). “Large Family of Solutions in the EM Theory”

- 28) **M.Halilsoy**, M.Arafah and S.Fakioglu, **Phys. Rev. D42**, 437-441 (1990). “*Exact Faraday Rotation in the Cylindrical EM Waves*”
- 29) **M.Halilsoy**, **Phys. Rev. D42**, 2922-2923 (1990). “*Colliding Impulsive Waves in Succession*”
- 30) **M.Halilsoy**, **Phys. Lett. A 151**, 205-209 (1990). “*Separable Wave Equation in the Space of Colliding Waves*”
- 31) E.Aydiroglu and **M.Halilsoy**, **Phys. Lett. A 168**, 245-248 (1992). “*Self-Focusing of Laser Beams in Analogy of Gravitational Waves*”
- 32) **M.Halilsoy**, **Jour. Math. Phys. 33**, 4225-4230 (1992). “*New Metrics for Spinning Spheroids*”
- 33) **M.Halilsoy** and M.El-Said, **Gen.Rel.Grav. 25**, 81-86 (1993). “*The Physical Interpretation of a Painleve’s Transcendent Space-Time*”
- 34) **M.Halilsoy**, **Gen.Rel.Grav. 25**, 275-280 (1993). “*Interpolation of the Schwarzschild and BR Solutions*”
- 35) **M.Halilsoy**, **Jour. Math. Phys. 34**, 3553-3554 (1993). “*Note on Large Family of CGW in EM Theory*”
- 36) **M.Halilsoy**, **Gen.Rel.Grav. 25**, 975-980 (1993). “*Effects on Planetary Motion of an External EM Field*”
- 37) **M.Halilsoy**, **Gen.Rel.Grav. 26**, 213-218 (1994). “*Colliding EM Waves that Admit Separable Wave Equation*”
- 38) **M.Halilsoy** and O.Gurtug, **Il Nuovo Cimento 109B**, 963-970 (1994). “*On Some Properties of the NUT-Curzon Space-Time*”
- 39) **M.Halilsoy** and A. Al-Badawi, **Class. Quantum. Grav. 12**, 3013-3017 (1995). “*Metric for a Static Mass Coupled to Stationary EM Field*”
- 40) **M.Halilsoy**, **Class. Quantum. Grav. 14**, 2231-2236 (1997). “*Test Field in sandwich Wave Space-Time*”
- 41) **M.Halilsoy** and A. Al-Badawi, **Il Nuovo Cimento 113B**, 761-766 (1998). “*Modified RN Metric in an External Electrostatic Field*”
- 42) **M.Halilsoy** and O.Gurtug, **Il Nuovo Cimento 113B**, 69-76 (1998). “*New Colliding Wave Solutions in the Einstein-Abelian Gauge and EM-Dilaton Theory*”
- 43) **M.Halilsoy** and A. Al-Badawi, **Il Nuovo Cimento 114B**, 21-27 (1999). “*Energy Amplification Across Sandwich Waves in GRT*”
- 44) **M.Halilsoy** and A. Al-Badawi, **Il Nuovo Cimento 114B**, 235-241 (1999). “*Interaction of Successive EM Waves in GRT*”
- 45) **M.Halilsoy**, **Il Nuovo Cimento 115B**, 559-565 (2000). “*Collision of an EM Wave with a Dust Shell*”
- 46) **M.Halilsoy**, **Jour. Math. Phys. 41**, 8351-8354 (2000). “*Comment on Colliding Null Shells of Matter*”
- 47) O.Gurtug and **M.Halilsoy**, **Phys. Rev. D64**, 084023-084030 (2001). “*Effects of Sources on the Inner Horizon of Black Holes*”
- 48) O.Gurtug and **M.Halilsoy**, **Il Nuovo Cimento 117B**, 493 (2002). “*Failure of a Stability Conjecture in General Relativity*”
- 49) **M.Halilsoy** and I.Sakalli, **Class. Quantum. Grav. 20**, 1417 (2003). “*Collision of EM Shock Waves Coupled With Axion Waves: An example*”
- 50) O.Gurtug, **M.Halilsoy** and I.Sakalli, **Gen. Relativ. Grav. 35**, 2159 (2003). “*New Singular and Nonsingular Colliding Wave Solutions in EMS Theory*”
- 51) E.Halilsoy and **M.Halilsoy**, **Phys. Rev. D69**, 124021 (2004). “*Nonsingular Colliding Wave Solutions in EMDA Theory*”

- 52) I.Sakalli and **M.Halilsoy**, **Phys. Rev. D****69**, 124012 (2004). “Solution of Dirac Equation in the Near Horizon Geometry of an Extreme Kerr Black Hole”
- 53) A. Al-Badawi and **M.Halilsoy**, **Il Nuovo Cimento**, **119B**, 931 (2004). “Revisiting the rotating BR electromagnetic universe”
- 54) **E.Halilsoy**, **M.Halilsoy** and O.Unver, **Jour. Math. Phys.** **47**, P. (2006). “Colliding wave solutions from 5-dimensional black holes and black p-branes”
- 55) O. Gurtuğ, **M.Halilsoy** and O. Unver, **Phys. Rev D** **74**, 044020 (2006) , “Reflection of electromagnetic waves from mixtures of plane gravitational and scalar waves”.
- 56) I. Sakalli and **M.Halilsoy**, **Phys. Rev D** **74**, 067501 (2006), “Chaos in electrovac and non – Abelian plane wave spacetimes”
- 57) A. Al-Badawi and **M. Halilsoy**, **Gen. Rel. Grav.** **38**,1729 (2006), “On the Physical Meaning of the NUT Parameter”.
- 58) **M. Halilsoy** and O. Gurtug, **Phys. Rev. D****75**, 124021 (2007). “Search for gravitational waves through the E. m Faraday Rotation”
- 59) S. H. Mazharimousavi and **M. Halilsoy**, **Phys. Rev. D** **76** 087501 (2007). “ 5D Black hole solution in Einstein-Yang- Mills- Gauss-Bonnet theory”
- 60) S. H. Mazharimousavi and **M. Halilsoy**, **Phys. Lett B** **659** 471 (2008). “ Einstein- Yang-Mills black hole solution in higher dimensions by the Wu-Yang ansatz”
- 61) S. H. Mazharimousavi and **M. Halilsoy**, **Phys. Lett B** **665** (2008) 125-130. “Higher dimensional Yang-Mills black holes in third order Lovelock gravity”
- 62) S. H. Mazharimousavi, **M. Halilsoy** and Z. Amirabi, **Phys. Rev. D****78**, 064050 (2008). “New non-Abelian black hole solutions in Born-Infeld gravity”
- 63) S. H. Mazharimousavi and **M. Halilsoy**, **J. of Cosmology and Astro particle Phys. (JCAP)** (2008), **12**, 005. “Black Hole solutions in EYMGB theory”.
- 64) O. Gurtuğ and **M.Halilsoy**, **Int. J. Theor. Phys**(2009). 48,139 – 149 “Colliding Wave Solutions in a Symmetric Non-Metric Theory”.
- 65) S.H. Mazharimousavi and **M. Halilsoy**, **Phys. Lett. B** (2009), 678, 407-410. “Black holes and the classical modal of a particle in Einstein non – linear electrodynamics theory”.
- 66) S.H. Mazharimousavi and **M. Halilsoy**, **Phys. Lett. B** (2009) 190-199 “Lovelock black holes with a power Yang – Mills source.
- 67) O. Gurtug and **M. Halilsoy**, **IJMP-A**, (2009) **24**, 3171 – 3190. “Effect of NUT Parameter on the analytic extension of the Cauchy Horizon that develop in colliding wave spacetimes”.
- 68) S.H. Mazharimousavi, O. Gurtug and **M. Halilsoy**, **IJMP-D** (2009),**18**,2061 – 2082. “Generating static, spherically Sympetric Black Holes in Lovelock gravity”.
- 69) S.H. Mazharimousavi, I. Sakalli and **M. Halilsoy**, **Phys. Lett. B** (2009) **672**, 177-181. “Effect of the Born – Infeld parameter in higher dimensional Hawking radiation”.
- 70) O. Gurtug and **M. Halilsoy**, **IJMP –A**,(2009)**24**,5579-5585. “Restricted class of Colliding Einstein – Yang – Mills plane waves.
- 71) R. Akoglu, **M. Halilsoy** and S.H. Mazharimousavi, **Physics Teacher** 48(2010)549-550, “Simple system to measure the Earth’s magnetic field”.
- 72) S.H. Mazharimousavi, **M. Halilsoy** and Z. Amirabi, **Gen. Rel. Grav.** (2010)**42**,261-280. “N – Dimensional non – abelian dilatonic, stable black holes and their Born – Infeld extension”.
- 73) S.H. Mazharimousavi, **M. Halilsoy** , O. Gurtug and I. Sakalli, “Dilatonic interpolation between RN and BR spacetimes” **Class. Quantum Grav.** **27** (2010) 105005.
- 74) S.H. Mazharimousavi, **M. Halilsoy** and Z. Amirabi, “Stability of thin-shell wormholes supported by ordinary matter in EMGB gravity” **Phys. Rev. D.** **81**,104002 (2010).
- 75) S.H. Mazharimousavi, **M. Halilsoy** , “Domain Walls in EGB Bulk” **Phys. Rev. D.****82**, 087502 (2010).

- 76) S.H. Mazharimousavi and **M. Halilsoy**, “Solution for Static, Spherically Symmetric Lovelock gravity coupled with Yang – Mills hierarchy”. *Phys. Lett. B* 694 (2010)54-60.
- 77) S.H. Mazharimousavi, O. Gurtug and **M. Halilsoy**, “Theorem to generate Einstein – non-linear Maxwell fields” *Class. Quantum Grav.* 27 (2010)205022.
- 78) S.H. Mazharimousavi, **M. Halilsoy**, Z. Amirabi, “d-Dimensional non-asymptotically flat thin-shell wormholes in EYMD gravity”. *Phys. Lett. A* 375 (2011) 231 – 236.
- 79) S.H. Mazharimousavi, **M. Halilsoy** and Zahra Amirabi, “Higher-dimensional thin-shell wormholes in EYMGB gravity. *Class. Quantum Grav.* 28(2011)025004.
- 80) S.H. Mazharimousavi, **M. Halilsoy**, “Note on Domain Wall universe in the EBI theory” *PLB*, 697 (2011) 497-499.
- 81) ‘Chaos in Kundt Type – 111 Space times’ I. Sakalli and **M. Halilsoy**, *Chin. Physics Letter* 28, (2011) 070402.
- 82) ‘Thin – shell wormhole solutions in Einstein – Hoffmann – Born – Infeld theory’ S. Habib Mazharimousavi, **M. Halilsoy**, Z. Amirabi. *Physics Letters A* 375 (2011) 3649 – 3654.
- 83) “Black hole solutions in $f(R)$ gravity coupled with nonlinear Yang-Mills field”. S. Habib Mazharimousavi and **M. Halilsoy**. *Phys. Rev. D* 84, 064032 (2011).
- 84) “Entropy Conservation of Linear Dilaton Black Hole in Quantum Corrected Hawking Radiation”. *Inter. J. Theor. Phys.* 50, 3212 -3224 (2011). I. Sakalli, **M. Halilsoy** and H. Pasaoglu.
- 85) “2+1 – Dimensional magnetically charged solutions in Einstein – Power – Maxwell theory”. S. Habib Mazharimousavi, O. Gurtug, **M. Halilsoy** and O. Unver, *Phys. Rev. D* 84, 124021 (2011).
- 86) “Ground State H-Atom in Born – Infeld Theory”. S. Habib Mazharimousavi and **M. Halilsoy**. *Found. Phys* (2012)42,524-530 .
- 87) “Specific dynamics for the domain walls in Einstein – Maxwell – dilaton theory” S. H. Mazharimousavi and **M. Halilsoy**, *Class. Quantum Grav.* 29 (2012), 065013.
- 88) “Solutions for $f(R)$, gravity coupled with electromagnetic field” S. H. Mazharimousavi, **M. Halilsoy** and T. Tahamtan. *Eur. Phys. J.C.* (2012)72:1851.
- 89) “Regular, charged, black hole construction in 2+1 – dimensions”. S.H. Mazharimousavi, **M. Halilsoy**, T. Tahamtan. *Phys. Lett. A.* 376, (2012) 893-898.
- 90) “Constant curvature $f(R)$ gravity minimally coupled with Yang – Mills field”. S. H. Mazharimousavi, **M. Halilsoy**, T. Tahamtan, *Eur. Phys. J.C* (2011), 72:1958.
- 91) “Square Root of the Maxwell Lagrangian versus confinement in general relativity” S. H. Mazharimousavi, **M. Halilsoy**. *Phys. Lett. B.* 710 (2012) 489-492.
- 92) “2+1 – dimensional electrically charged black holes in Einstein – power – Maxwell theory”. O. Gurtug, S. Habib Mazharimousavi and **M. Halilsoy**, *Phys. Rev. D* 85, 104004 (2012).
- 93) “Comment on static and spherically symmetric Black Holes in $f(R)$ gravity” S. H. Mazharimousavi and **M. Halilsoy**, *Phys. Rev. D* 86, 088501 (2012).
- 94) “Fading Hawking Radiation” I. Sakalli, **M. Halilsoy** and H. Pasaoglu. *Astrophys. Space Sci.* (2012) 340, 155.
- 95) “Double-bounce domain wall EYM-Scalar black hole”. S. H. Mazharimousavi, **M. Halilsoy** and T. Tahamtan, *EPJC* (2013) 73, 2264.
- 96) “Existence of RN black hole in $f(R)$ gravity”. S. H. Mazharimousavi, M. Kerachian and **M. Halilsoy**. *In. J. Modern. Physics D* (2013) (in press).
- 97) “Rindler type acceleration in $f(R)$ gravity”. S. H. Mazharimousavi and **M. Halilsoy**. *Mod. Phys. Lett. A* 28 (2013) 1350073.
- 98) S. Habib Mazharimousavi, Ashkan Roozbeh and **M. Halilsoy**, arXiv:1303.3264, "Electromagnetic wave propagation through inhomogeneous material layers" *Journal of Electromagnetic Waves and Applications*, 27, 2065 (2013).

- 99) S. Habib Mazharimousavi and M. Halilsoy, arXiv:1305.2909. "Charge screening by thin-shells in a $2 + 1$ dimensional regular black hole". Eur. Phys. J. C (2013) 73:2527.
- 100) S. Habib Mazharimousavi, **M. Halilsoy** and Z. Amirabi, arXiv:1403.2861 "Stability of generic cylindrical thin shell wormholes". Physical Review D 89, 084003 (2014).
- 101) **M. Halilsoy**, A. Ovgun and S. Habib Mazharimousavi, arXiv:1312.6665 "Thin-shell wormholes from the regular Hayward black hole". Eur. Phys. J. C (2014) 74:2796.
- 102) O. Gurtug, **M. Halilsoy**, S. Habib Mazharimousavi, arXiv:1312.4453 "Quantum probes of timelike naked singularities in the weak field regime of $f(R)$ global monopole spacetime". JHEP 01 (2014) 178.
- 103) S. Habib Mazharimousavi, M. Kerachian, **M. Halilsoy**, arXiv:1309.4768 "A scan of $f(R)$ models admitting Rindler type acceleration". Eur. Phys. J. C, 74 3 (2014) 2795.
- 104) S. Habib Mazharimousavi, **M. Halilsoy** and Ozay Gurtug, arXiv:1304.5206, "A new Einstein-nonlinear electrodynamics solution in $2 + 1$ dimensions" Eur. Phys. J.C (2014) 74:2735.
- 105) S. Habib Mazharimousavi, **M. Halilsoy** and Z. Amirabi, arXiv:1403.6940 "Microscopic thin shell wormholes in magnetic Melvin universe". Eur. Phys. J. C (2014) in press.
- 106) S. Habib Mazharimousavi and **M. Halilsoy**, "Counterrotational effects on stability of $2+1$ -dimensional thin-shell wormholes" Eur. Phys. J. C 74, 3073 (2014).
- 107) S. Habib Mazharimousavi and **M. Halilsoy**, "Flare-out conditions in static thin-shell wormholes" Phys. Rev. D 90, 087501 (2014).
- 108) **M. Halilsoy**, S. Habib Mazharimousavi, and Ozay Gurtug, "Emergent cosmological constant from colliding electromagnetic waves" JCAP 11, 010 (2014).
- 109) S. Habib Mazharimousavi and **M. Halilsoy**, "Thin-shell wormholes supported by total normal matter" Eur. Phys. J. C (2014) 74:3067.
- 110) S. Habib Mazharimousavi and **M. Halilsoy**, "Einstein-Maxwell gravity coupled to a scalar field in $2+1$ -dimensions" Eur. Phys. J. Plus, 130, 158 (2015).
- 111) S. Habib Mazharimousavi and **M. Halilsoy**, "Einstein-Born-Infeld black holes with a scalar hair in three-dimensions" Mod. Phys. Lett. A, 30, 1550177 (2015).
- 112) S. Habib Mazharimousavi, **M. Halilsoy**, "2+1-dimensional wormhole from a doublet of scalar fields" Phys. Rev. D 92, 024040 (2015).
- 113) S. Habib Mazharimousavi, **M. Halilsoy**, "Screening of the Reissner-Nordström charge by a thin-shell of dust matter" Eur. Phys. J. C 75, 334 (2015).
- 114) S. Habib Mazharimousavi, **M. Halilsoy**, "A topological metric in $2+1$ -dimensions" Eur. Phys. J. C 75, 249 (2015).
- 115) S. Habib Mazharimousavi, **M. Halilsoy**, "3+1-dimensional thin-shell wormhole with deformed throat can be supported by normal matter" Eur. Phys. J. C 75, 271 (2015).
- 116) S. Habib Mazharimousavi, **M. Halilsoy**, "2+1-dimensional traversable wormholes supported by positive energy" Eur. Phys. J. C 75, 81 (2015).
- 117) O. Gurtug, **M. Halilsoy** and S. Habib Mazharimousavi, "Quantum probes of time-like naked singularities in $2+1$ -dimensional power-law spacetimes" Advances in High Energy Physics 2015, 684731 (2015).
- 118) S. Habib Mazharimousavi, O. Gurtug, **M. Halilsoy**, "Modified Rindler acceleration as a nonlinear electromagnetic effect" Astroparticle Physics 68, 1 (2015).
- 119) S. Habib Mazharimousavi, **M. Halilsoy**, "Hypocycloidal throat for $2+1$ -dimensional thin-shell wormholes" EUROPEAN PHYSICAL JOURNAL C Volume: 75 Issue: 11 Article Number: 540 Published: NOV 19 2015
- 120) S. Habib Mazharimousavi, **M. Halilsoy**, "Revisiting the dyonic Majumdar-Papapetrou black holes" *TURKISH JOURNAL OF PHYSICS* Volume: 40 Issue: 2 Pages: 163-+ Published: 2016

- 121) S. Habib Mazharimousavi, **M. Halilsoy**, "Cloud of strings as source in 2+1-dimensional $f(R) = R-n$ gravity" *EUROPEAN PHYSICAL JOURNAL C* Volume: 76 Issue: 2 Article Number: 95 Published: FEB 23 2016
- 122) S. Habib Mazharimousavi, **M. Halilsoy**, "Non-Abelian magnetic black strings versus black holes" *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 131 Issue: 5 Article Number: 138 Published: MAY 6 2016
- 123) *Generation of spherically symmetric metrics in $f(R)$ gravity* By: Amirabi, Z.; **Halilsoy, M.**; Mazharimousavi, S. Habib, *EUROPEAN PHYSICAL JOURNAL C* Volume: 76 Issue: 6 Article Number: 338 Published: JUN 20 2016
- 124) "Existence of traversable wormholes in the spherical stellar systems" By: Ovgun, A.; **Halilsoy, M.** *ASTROPHYSICS AND SPACE SCIENCE* Volume: 361 Issue: 7 Article Number: 214 Published: JUL 2016
- 125) *Black holes from multiplets of scalar fields in 2+1-and 3+1 dimensions* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *EUROPEAN PHYSICAL JOURNAL C* Volume: 76 Issue: 8 Article Number: 458 Published: AUG 13 2016
- 126) *Black p-branes versus black holes in non-asymptotically flat Einstein-Yang-Mills theory* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 131 Issue: 9 Article Number: 302 Published: SEP 9 2016
- 127) *Colliding plane waves in $F(R) = R-N$ gravity* By: Tahamtan, T.; **Halilsoy, M.**; Mazharimousavi, S. Habib *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 131 Issue: 10 Article Number: 350 Published: OCT 3 2016
- 128) *Magnetic Morris-Thorne wormhole in 2+1-dimensions* By: Mazharimousavi, S. Habib; Amirabi, Zahra; **Halilsoy, M.** *GENERAL RELATIVITY AND GRAVITATION* Volume: 48 Issue: 11 Article Number: 143 Published: NOV 2016
- 129) *Wormhole solutions in $f(R)$ gravity satisfying energy conditions* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *MODERN PHYSICS LETTERS A* Volume: 31 Issue: 34 Article Number: 1650192 Published: NOV 10 2016
- 130) *Particle Collision Near 1+1-Dimensional Horava-Lifshitz Black Hole and Naked Singularity* By: **Halilsoy, M.**; Ovgun, A. *ADVANCES IN HIGH ENERGY PHYSICS* Article Number: 4383617 Published: 2017
- 131) *Quantum particle probe of the Kerr naked singularity* By: Gurtug, O.; **Halilsoy, M.** *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 132 Issue: 1 Article Number: 41 Published: JAN 24 2017
- 132) *Thin-shell wormholes in (2+1)-dimensional Einstein-scalar theory* By: Mazharimousavi, S. Habib; Amirabi, Z.; **Halilsoy, M.** *MODERN PHYSICS LETTERS A* Volume: 32 Issue: 10 Article Number: 1750064 Published: MAR 28 2017
- 133) *Classical and quantum analysis of an Einstein-Scalar solution in 2+1 dimensions* By: Gurtug, O.; Mazharimousavi, S. Habib; **Halilsoy, M.** *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 132 Issue: 4 Article Number: 161 Published: APR 11 2017
- 134) *Morse simulation of the global monopole equation in flat spacetime* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS* Volume: 14 Issue: 11 Article Number: 1750155 Published: NOV 2017
- 135) *Particle acceleration by static black holes in a model of $f(R)$ gravity* By: **Halilsoy, M.**; Ovgun, A. *CANADIAN JOURNAL OF PHYSICS* Volume: 95 Issue: 11 Pages: 1037-1041 Published: NOV 2017
- 136) *Stability of spherically symmetric timelike thin-shells in general relativity with a variable equation-of-state* By: Mazharimousavi, S. Habib; **Halilsoy, M.**; Amen, S. N. Hamad *INTERNATIONAL JOURNAL OF MODERN PHYSICS D* Volume: 26 Issue: 14 Article Number: 1750158 Published: DEC 2017

- 137) *Cycloid experiment for freshmen physics labs* By: Akoglu, Resat; Mazharimousavi, Seyedhabibollah; **Halilsoy, Mustafa** *TURKISH JOURNAL OF PHYSICS* Volume: 42 Issue: 1 Pages: 84-88 Published: 2018
- 138) *Note on a thin-shell wormhole in extremal Reissner Nordstrom geometry* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *INTERNATIONAL JOURNAL OF MODERN PHYSICS D* Volume: 27 Issue: 3 Article Number: 1850028 Published: FEB 2018
- 139) *(2+1)-dimensional dynamical black holes in Einstein-nonlinear Maxwell theory* By: Gurtug, O.; Mazharimousavi, S. Habib; **Halilsoy, M.** *MODERN PHYSICS LETTERS A* Volume: 33 Issue: 4 Article Number: 1850027 Published: FEB 10 2018
- 140) *Thin-shell wormholes in rainbow gravity* By: Amirabi, Z.; **Halilsoy, M.**; Mazharimousavi, S. Habib *MODERN PHYSICS LETTERS A* Volume: 33 Issue: 9 Article Number: 1850049 Published: MAR 21 2018
- 141) *Repeated crossing of two concentric spherical thin-shells with charge* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *INTERNATIONAL JOURNAL OF MODERN PHYSICS D* Volume: 27 Issue: 7 Article Number: 1850064 Published: MAY 2018
- 142) *Asymmetric thin-shell wormholes* By: Forghani, S. Danial; Mazharimousavi, S. Habib; **Halilsoy, Mustafa** *EUROPEAN PHYSICAL JOURNAL C* Volume: 78 Issue: 6 Article Number: 469 Published: JUN 8 2018
- 143) *Regularization of the Reissner-Nordstrom black hole* By: Mazharimousavi, S. Habib; **Halilsoy, M.** *EUROPEAN PHYSICAL JOURNAL PLUS* Volume: 133 Issue: 9 Article Number: 386 Published: SEP 25 2018
- 144) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Geometric Methods in Modern Physics*, 16, 1950006 (2019).
- 145) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Modern Physics D* 28, 1950038 (2019).
- 146) S. Habib Mazharimousavi and M. Halilsoy, *AIP Conference Proceedings* 2075,090028 (2019)
- 147) S. Danial Forghani, S. Habib Mazharimousavi, M. Halilsoy, *Eur. Phys. J. C* 79, 449 (2019).
- 148) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Modern Physics D* 28, 1950120 (2019).
- 149) S. Danial Forghani, S. Habib Mazharimousavi, M. Halilsoy, *Eur. Phys. J. Plus* 134, 342 (2019).
- 150) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Geometric Methods in Modern Physics*, 16, 1950121 (2019).
- 151) S. Danial Forghani, S. Habib Mazharimousavi, M. Halilsoy, *International Journal of Modern Physics D* 28, 1950142 (2019).
- 152) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Phys. Lett. B* 796, 123 (2019).
- 153) S. Habib Mazharimousavi and M. Halilsoy, *International Journal of Geometric Methods in Modern Physics*, 16, 1950148 (2019).
- 154) S. Danial Forghani, S. Habib Mazharimousavi, M. Halilsoy, *JCAP* 10, 1067 (2019).
- 155) S. Habib Mazharimousavi and M. Halilsoy, *Ann. Phys. (Berlin)* 2019, 531, 1900236.
- 156) S. Habib Mazharimousavi, M. Halilsoy and K. Kianfar, *Eur. Phys. J. Plus* 135, 440 (2020).
- 157) S. Danial Forghani, S. Habib Mazharimousavi, M. Halilsoy, *Phys. Lett. B* 804, 135374 (2020).
- 158) S. Habib Mazharimousavi and M. Halilsoy, *Class. Quantum Grav.* 37 137001 (2020).

