

## ÖZGEÇMİŞ

1. **Adı Soyadı :** Özay Gürtuğ
2. **Doğum Tarihi:** 1 Ağustos 1965
3. **Unvanı:** Profesör.
4. **E-mail:** ozaygurtug@maltepe.edu.tr
5. **Öğrenim Durumu:**

Derece	Alan	Üniversite	Yıl
Lisans	Elek. Elektronik Mühendisliği	Doğu Akdeniz Üniversitesi (DAÜ)	1988
Y. Lisans	Fizik	DAÜ	1992
Doktora	Fizik	DAÜ	1997

### 6. Akademik Unvanlar:

Unvan	Bölüm	Kurum	Yıl
Yrd. Doç. Dr.	Fizik	DAÜ	1999-2004
Doçent (DAÜ-Yasası)	Fizik	DAÜ	2004-2011
Profesör	Fizik	DAÜ	2011-2016
Doçent (ÜAK)	Fizik	DAÜ	2012
Profesör	Yazılım Müh.	Maltepe Üniv.	2016-Şimdiye

### 7. Yayınlar

#### a. Uluslararası Hakemli Dergilerde Yayımlanan Makaleler.

[1] **O. Gurtug** and M. Mangut, “Quantum Probe of Time-like Naked Singularities for Electrically and Magnetically Charged Black Holes in a Model of Nonlinear Electrodynamics”, *Mod. Phys. Lett. A*, Vol:35, No:29, 2050242, (2020).

[2] **O. Gurtug** and M. Mangut, “Gravitational Lensing in a Model of Nonlinear Electrodynamics: The case for electrically and magnetically charged compact objects”, *Annalen der Physik*, (Berlin), 532, 1900576, (2020).

[3] **O. Gurtug** and M. Mangut, “ Effect of power-Law Maxwell Field to the Gravitational Lensing” *Physical Review D* . Vol: **99**, 084003, (2019).

[4] **O. Gurtug** and M. Mangut, “ Quantum Probe of Horava-Lifshitz Gravity” *Jour. Math. Phys.* Vol:59, 042503, (2018).

- [5] **O. Gurtug**, S. Habib Mazharimousavi and M. Halilsoy, “ 2+1 Dimensional Dynamical Black Holes in Einstein-nonlinear Maxwell Theory”, Mod. Phys. Lett. A, Vol:33, 1850027, (2018)
- [6] **O. Gurtug**, S. Habib Mazharimousavi and M. Halilsoy, “ **Classical and quantum analysis of an Einstein-Scalar solution in 2+1 dimension**”, Eur. Phys. J. Plus, **132** : 161 (2017).
- [7] **O. Gurtug** and M. Halilsoy “ **Quantum particle probe of the Kerr naked singularity** ”, Eur. Phys. J. Plus, **132**, 41 (2017).
- [8] **O. Gurtug**, M. Halilsoy and S. Habib Mazharimousavi, “**Quantum probes of timelike naked singularities in 2+1- dimensional power-law spacetimes**”, Advances in High Energy Physics, dx.doi.org/10.1155/2015/684731 (2015).
- [9] M. Halilsoy, **O. Gurtug** and S. Habib Mazharimousavi, “ **Modified Rindler acceleration as a nonlinear electromagnetic effect** ”, Astroparticle Physics 68, 1 (2015).
- [10] M. Halilsoy, S. Habib Mazharimousavi and **O. Gurtug**, “ *Emergent cosmological constant from colliding electromagnetic waves* ” Journal of Cosmology and Astroparticle Physics, 11, 010, (2014).
- [11] **O. Gurtug**, M. Halilsoy and S. Habib Mazharimousavi, “*Quantum probes of timelike naked singularities in the weak field regime of  $f(R)$  global monopole spacetime*”, Journal of High Energy Physics, 01, 178, (2014).
- [12] S. Habib Mazharimousavi, M. Halilsoy and **O. Gurtug** “*A new Einstein-nonlinear electrodynamic solution in 2+1-dimensions*”, Eur. Phys. J. C 74, 2735 (2014).
- [13] M. Halilsoy, **O. Gurtug** and S. Habib Mazharimousavi, “*Rindler Modified Schwarzschild Geodesics*”, General Relativity and Gravitation. Vol. 45, 2363 (2013).
- [14] **O. Gurtug** and T. Tahamtan, “*Quantum singularities in a model of  $f(R)$  gravity*”, European Physical Journal C, Vol:72, 2091, (2012).
- [15] **O. Gurtug**, S. Habib Mazharimousavi, and M. Halilsoy, “*2+1-dimensional electrically charged black holes in Einstein - Power - Maxwell theory*” Physical Review D . Vol: **85** , 104004, (2012).
- [16] S. Habib Mazharimousavi, **O. Gurtug** , M. Halilsoy and O. Unver, “*2+1 dimensional magnetically charged solutions in Einstein - Power - Maxwell theory*” Physical Review D . Vol: **84** , 124021, (2011).
- [17] O.Unver and **O.Gurtug**, “*Quantum Singularities in (2+1) Dimensional Matter Coupled Black Hole Spacetimes*”, Physical Review D . Vol: **82** , 084016, (2010).
- [18] S. Habib Mazharimousavi, M. Halilsoy and **O. Gurtug** “ *Theorem to Generate Einstein-Nonlinear Maxwell Fields*” Classical and Quantum Gravity, **27**, 205022, (2010).

- [19] S. Habib Mazharimousavi, M. Halilsoy, I.Sakalli and , **O. Gurtug**, “*Dilatonic Interpolation Between Reissner-Nordström and Bertotti-Robinson Spacetimes with Physical Consequences*”, Classical and Quantum Gravity, **27**, 105005, (2010).
- [20] S. Habib Mazharimousavi, **O. Gurtug** and M. Halilsoy, “ *Generating Static, Spherically Symmetric Black Holes in Lovelock Gravity*”, Int. Jour. Mod. Phys. **D**, Vol:18, pp:2061-2082, (2009) .
- [21] **O. Gurtug** and M.Halilsoy, “*Restricted Class of Colliding Einstein – Yang – Mills Plane Waves*”, Int. Jour. Mod. Phys. **A**, Vol:24, pp:5579-5585, (2009) .
- [22] **O. Gurtug** and M.Halilsoy, “*Effect of NUT Parameter on the Analytic Extension of the Cauchy Horizon that Develop in Colliding Wave Space – Times*”, Int. Jour. Mod. Phys. **A**, Vol:24, pp:3171-3190, (2009) .
- [23] **O. Gurtug** and M.Halilsoy, “*Colliding Wave Solutions in a Symmetric Non-Metric Theory.*” International Journal of Theoretical Physics, Vol. **48**, pp:139 – 149, (2009).
- [24] M.Halilsoy and **O. Gurtug**, “ *Search For Gravitational Waves Through The Electromagnetic Faraday Rotation.*” Physical Review **D** . Vol: **75** , 124021, (2007).
- [25] “**O. Gurtug**, M. Halilsoy and O. Unver, “*Reflection of Electromagnetic Waves From Mixtures of Plane Gravitational and Scalar Waves*” Physical Review **D** . Vol: **74** , 044020, (2006).
- [26] **O. Gurtug**, M. Halilsoy and I. Sakalli, “ *New Singular and Nonsingular Colliding Wave Solutions in the Einstein – Maxwell – scalar Theory*”, General Relativity and Gravitation, Vol.**35**, No: 12, pp:2159 – 2170, (2003).
- [27] **O.Gurtug** and I. Sakalli, “ *Cosmic Strings Coupled With a Massless Scalar Field*’, International Journal of Theoretical Physics, Vol. **42**, No: 8, pp:1863 – 1876, (2003).
- [28] **O.Gurtug** and M. Halilsoy, “ *Failure of a Stability Conjecture in General Relativity*”. Il Nuovo Cimento Vol: **117 B** , No: 5, pp: 493 – 499, (2002).
- [29] **O.Gurtug** and M. Halilsoy, “ *Effect of Sources on the Inner Horizon of Black Holes.*” Physical Review **D** . Vol: **64** , 084023, (2001).
- [30] **O.Gurtug** and M. Halilsoy, “*New Colliding Wave Solutions in the Einstein-Abelian Gauge and Einstein-Maxwell-Dilaton Theories*”. Il Nouvo Cimento Vol. **113 B**, No:1, pp: 69-80, (1998).
- [31] **O. Gurtug**, “*A New Extension of The Ferrari-Ibanez Colliding Wave Solution*”. General Relativity and Gravitation Vol: **27**. No : 6, pp:651-655, (1995).

- [32] M.Halilsoy and **O. Gurtug**, "*On Some Properties of NUT-Curzon Space Time*".  
IINouvo Cimento, Vol: **109 B**, No:9, pp: 963-971, (1994).

**b. Önemli Ulusal Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında Basılan Bildiriler.**

- i. I. Semiz, A. Bilsel, O. Gurtug, "Üniversite Birinci Sınıf Öğrencilerinde Maddenin Yapısı ile ilgili Kavramlar ve Yanılgılar". IV. Ulusal Eğitim Bilimleri Kongresi, Eskişehir, 10-12 Eylül 1997.

**c. Önemli Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında Basılan Bildiriler.**

- i. "**Effect of NUT Parameter on the Analytic Extension of the Cauchy Horizon that Develop in Colliding Wave Spacetimes**", **O. Gurtug**, V. Topical Conference on Elementary Particles, Astrophysics and Cosmology, Miami 2008, Fort Lauderdale, Florida, 16-21 December 2008.
- ii. "**2+1 Dimensional Magnetically Charged Solutions in Einstein - Power - Maxwell Theory**", **O. Gurtug**, VII. Topical Conference on Elementary Particles, Astrophysics and Cosmology, Miami 2010, Fort Lauderdale, Florida, 14-19 December 2010.
- iii. "**A wavy way leading to the Kerr metric and its quantum singularity analysis**", **O. Gurtug**, Topical Conference on Theoretical Physics, Iran IPM, 2015
- iv. Quantization, Dualities and Integrable Systems, Ankara University, Ankara-Turkey, 23-25 April, 2009.  
**Title of My Presentation:** Quantum Singularities in Higher Dimensional Einstein-Yang-Mills-Dilaton Black Holes
- v. Quantization, Dualities and Integrable Systems, Yeditepe University, Istanbul-Turkey, 23-25 April, 2010  
**Title of My Presentation:** Theorem to generate Einstein-Nonlinear Maxwell Fields
- vi. Quantization, Dualities and Integrable Systems, Koç University, Istanbul-Turkey, 19-20 April, 2014.  
**Title of My Presentation:** Remarkable Consequences of Colliding Gravitational and Electromagnetic Plane Waves in general relativity.
- vii. Quantization, Dualities and Integrable Systems, Pamukkale University, Denizli -Turkey, 20-22 April, 2019  
**Title of My Presentation:** Space-time Singularities: Classical and Quantum

**8. Uluslararası Bilimsel Okullara Katılım.**

- a. 10 th Brazilian School, Cosmology and Gravitation, 26 Temmuz- 9 Agustus 2002
- b. Advanced School and Conference on Sources of Gravitational Waves, ICTP, Italy, September - November 2003.
- c. Gravity- New Perspectives From Strings and Higher Dimensions, Centro de Ciencias de Benasque Pedro Pascual, Benasque-Spain, 12-24 July, 2009.

## 9. Bilimsel/Mesleki Kuruluşlara Üyelikler.

- a. American Physical Society.
- b. Elektrik Mühendisleri Odası (İstanbul/Türkiye)
- c. Elektrik Mühendisleri Odası (Lefkoşa/KKTC)

## 10. İdari Görevler.

- 1- Fen ve Edebiyat Fakültesi Stratejik Planlama Komisyonu Üyesi, 2000-2003.
- 2- Fen ve Edebiyat Fakültesi Kalite ve Akreditasyon Komisyonu Üyesi, 2000-2003.
- 3- Rektörlük Akademik İşler Kordinatörü, 2003 – 2005.
- 4- Müfredat Geliştirme Komisyonu Üyesi, 2003 – 2005.
- 5- Kuzey Kıbrıs Eğitim Vakfı, Vakıf Yöneticiler Kurulu Akademik Danışmanı 2006-2009.
- 6- Doğu Akdeniz Üniversitesi, Rektör Danışmanı 2009- 2014
- 7- Maltepe Üniversitesi, Rektör Danışmanı 2017- 2018
- 8- Maltepe Üniversitesi, Mimarlık ve Tasarım Fak. Dekan Vekili 2018- 2019.
- 9- Maltepe Üniversitesi, Mimarlık ve Tasarım Fak. Dekanı 2019 – Devam ediyor.

## 11. Son İki Yılda Verilen Dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık	Saati
			Teorik	Uygulama
2019-2020	GÜZ	EE 205 Electromagnetic Field Theory	3	-
		MATH227 Engineering Mathematics	3	-
				-
2019-2020	BAHAR	EE 208 Electromagnetic Wave Theory	3	-
		ARCH266 Environmental Control Systems	3	1
		MAT549 Mühendislikte Matematiksel Yöntemler	3	-
2020-2021	GÜZ	EE 205 Electromagnetic Field Theory	3	-
		ARCH223 Statics – Strength of Materials	3	-
		MAT549 Mühendislikte Matematiksel Yöntemler	3	-
		MAT528 Matematiksel Fiziğin Özel	3	-

		Fonksiyonları		
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