

Prof.Dr. MURAT KÖKSAL

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Bülent Ecevit Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2007 - 2012

Yüksek Lisans, Sivas Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, Türkiye 2003 - 2006

Lisans, Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1998 - 2002

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Standart model ötesi fiziğin araştırılmasında nötrino etkileşimleri, Bülent Ecevit Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2012

Yüksek Lisans, Heteroyapılarda alan altında kutuplanabilirlik ve fotoiyonizasyon tesir-kesiti hesabı, Sivas Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, 2006

Araştırma Alanları

Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği, 2021 - Devam Ediyor

Doç.Dr., Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği, 2016 - Devam Ediyor

Yrd.Doç.Dr., Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği, 2014 - Devam Ediyor

Yrd.Doç.Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, İstatistik Ve Bilgisayar Bilimleri Bölümü, 2013 - 2014

Araştırma Görevlisi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2008 - 2013

Akademik İdari Deneyim

Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, 2014 - Devam Ediyor

Sivas Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, 2013 - 2014

Verdiği Dersler

Statik, Lisans, 2019 - 2020
Lazer Fiziği Uygulamaları-I, Yüksek Lisans, 2019 - 2020
İleri Fizik Optik, Yüksek Lisans, 2019 - 2020
Seminer Dersi, Yüksek Lisans, 2016 - 2017
Statik, Lisans, 2017 - 2018
Statik, Lisans, 2017 - 2018
Statik, Lisans, 2017 - 2018
Lens Tasarımı ve Kusurları, Yüksek Lisans, 2017 - 2018
Optik İnce Film Kaplama Teknikleri, Yüksek Lisans, 2016 - 2017
Uzmanlık Alan Dersi, Yüksek Lisans, 2017 - 2018
Statik, Lisans, 2017 - 2018
Statik, Lisans, 2017 - 2018
Teknik Çeviri, Lisans, 2016 - 2017
Teknik Çeviri, Lisans, 2016 - 2017
Statik, Lisans, 2016 - 2017
Statik, Lisans, 2016 - 2017
İstatistik, Lisans, 2014 - 2015
Bilgisayar - I, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Study of the projected sensitivity on the anomalous quartic gauge couplings via $Z\gamma\gamma$ production at the CLIC**
ARI V., Gurkanli E., KÖKSAL M., Gutiérrez-Rodríguez A., Hernández-Ruíz M.
Nuclear Physics B, cilt.989, 2023 (SCI-Expanded)
- II. **Model-independent study on the anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings at the future muon collider**
Senol A., Spor S., Gurkanli E., Cetinkaya V., Denizli H., KÖKSAL M.
European Physical Journal Plus, cilt.137, sa.12, 2022 (SCI-Expanded)
- III. **Search for the anomalous ZZ gamma and Z gamma gamma couplings via $\nu\nu$ gamma production at the CLIC**
Spor S., Gurkanli E., Koksals M.
NUCLEAR PHYSICS B, cilt.979, 2022 (SCI-Expanded)
- IV. **Feasibility at the LHC, FCC-he and CLIC for Sensitivity Estimates on Anomalous Electromagnetic Couplings of the tau-lepton**
Gutierrez-Rodriguez A., Koksals M., Billur A. A., Hernandez-Ruiz M. A.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.61, sa.6, 2022 (SCI-Expanded)
- V. **Sensitivity analysis for the anomalous $W^+ W^-$ gamma couplings at the LHeC and the FCC-he**
Spor S., Koksals M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.137, sa.1, 2022 (SCI-Expanded)
- VI. **Model-independent study on the anomalous $\tau\tau\gamma$ couplings at the ILC**
KÖKSAL M.
Nuclear Physics B, cilt.971, 2021 (SCI-Expanded)
- VII. **Search for the anomalous $WW\gamma$ couplings through the process $e^-e^+\rightarrow\nu e\nu^-\gamma$ at ILC with unpolarized and polarized beams**
Spor S., KÖKSAL M.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.820, 2021 (SCI-Expanded)
- VIII. **Analysis of the anomalous quartic $WWWW$ couplings at the LHeC and the FCC-he**
Gurkanli E., Ari V., Billur A. A., Koksals M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.7, 2021 (SCI-Expanded)
- IX. **Model-independent limits for anomalous triple gauge bosons W^+W^- gamma couplings at the CLIC**

- Billur A. A., Koksals M., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.6, 2021 (SCI-Expanded)
- X. **Study on the anomalous quartic $W+W-$ gamma gamma couplings of electroweak bosons in $e(-) p$ collisions at the LHeC and the FCC-he**
Gutierrez-Rodriguez A., Hernandez-Ruiz M. A., Gurkanli E., Ari V., Koksals M.
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.3, 2021 (SCI-Expanded)
- XI. **Sensitivity measuring expected on the electromagnetic anomalous couplings in the $t(\bar{t})$ over-bar gamma vertex at the FCC-he**
Köksal M., Billur A. A., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.35, sa.28, 2020 (SCI-Expanded)
- XII. **Bounds on the non-standard $W+W-\gamma$ couplings at the LHeC and the FCC-he**
Köksal M., Billur A. A., Gutierrez-Rodriguez A., Hernández-Ruiz M.
Physics Letters B, cilt.808, ss.135661-135682, 2020 (SCI-Expanded)
- XIII. **Sensitivity physics expected to the measurement of the quartic WW gamma gamma couplings at the LHeC and the FCC-he**
Gurkanli E., Ari V., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A., Köksal M.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.47, sa.9, 2020 (SCI-Expanded)
- XIV. **Model independent study for the anomalous quartic WW gamma gamma couplings at future electron-proton colliders**
Ari V., Gurkanli E., Billur A. A., Köksal M.
NUCLEAR PHYSICS B, cilt.957, 2020 (SCI-Expanded)
- XV. **Model independent study for the anomalous $W+W-$ gamma couplings at the future lepton-hadron colliders**
Spor S., Billur A. A., Köksal M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.135, sa.8, 2020 (SCI-Expanded)
- XVI. **Model-independent sensitivity estimates for the electromagnetic dipole moments of the top quark at the Large Hadron Collider and beyond**
Köksal M.
NUCLEAR PHYSICS B, cilt.956, 2020 (SCI-Expanded)
- XVII. **Probing model-independent limits on $W+W$ -gamma triple gauge boson vertex at the LHeC and the FCC-he**
Gutierrez-Rodriguez A., Koksals M., Billur A. A., Hernandez-Ruiz M. A.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.47, sa.5, 2020 (SCI-Expanded)
- XVIII. **Anomalous quartic $W+W-$ gamma gamma couplings in $e(-) p$ collisions at the LHeC and the FCC-he**
Ari V., Gurkanli E., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A., Koksals M.
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- XIX. **Probing the anomalous electromagnetic dipole moments of the top quark in gamma p collision at the LHC, the HL-LHC and the HE-LHC**
Koksals M.
NUCLEAR PHYSICS B, cilt.950, 2020 (SCI-Expanded)
- XX. **Probing the anomalous tq gamma couplings through single top production at the future lepton-hadron colliders**
Alici E., KÖKSAL M.
MODERN PHYSICS LETTERS A, cilt.34, sa.36, 2019 (SCI-Expanded)
- XXI. **Projections for model-independent limit estimates on top-quark anomalous electromagnetic couplings at the FCC-he**
Billur A. A., Köksal M., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.134, 2019 (SCI-Expanded)
- XXII. **Studies on the anomalous magnetic and electric dipole moments of the tau-neutrino in pp collisions at the LHC**
Gutierrez-Rodriguez A., KÖKSAL M., BİLLUR A. A., Hernandez-Ruiz M. A.

- EUROPEAN PHYSICAL JOURNAL A, cilt.55, sa.8, 2019 (SCI-Expanded)
- XXIII. **Search for the electromagnetic moments of the tau lepton in photon-photon collisions at the LHeC and the FCC-he**
Koksal M.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.46, sa.6, 2019 (SCI-Expanded)
- XXIV. **The mu(+) μ (-) collider to sensitivity estimates on the magnetic and electric dipole moments of the tau-lepton**
Koksal M., Billur A. A., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.34, sa.15, 2019 (SCI-Expanded)
- XXV. **FCC-he sensitivity estimates on the anomalous electromagnetic dipole moments of the top-quark**
Hernandez-Ruiz M. A., Gutierrez-Rodriguez A., Koksal M., Billur A. A.
NUCLEAR PHYSICS B, cilt.941, ss.646-664, 2019 (SCI-Expanded)
- XXVI. **Model-independent sensibility studies for the anomalous dipole moments of the nu(tau) at the CLIC based e(+) e (-) and gamma e(-) colliders**
Billur A. A., Koksal M., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
PHYSICAL REVIEW D, cilt.98, sa.9, 2018 (SCI-Expanded)
- XXVII. **Analysis of the anomalous electromagnetic moments of the tau lepton in gamma p collisions at the LHC**
Koksal M., Inan S. C., Billur A. A., Ozguven Y., Bahar M. K.
PHYSICS LETTERS B, cilt.783, ss.375-380, 2018 (SCI-Expanded)
- XXVIII. **Model-independent sensitivity estimates for the electromagnetic dipole moments of the tau-lepton at the CLIC**
Koksal M., Billur A. A., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
PHYSICAL REVIEW D, cilt.98, sa.1, 2018 (SCI-Expanded)
- XXIX. **Search for the anomalous electromagnetic moments of tau lepton through electron-photon scattering at CLIC**
Ozguven Y., Billur A. A., Inan S. C., Bahar M. K., Koksal M.
NUCLEAR PHYSICS B, cilt.923, ss.475-490, 2017 (SCI-Expanded)
- XXX. **Improved sensitivity on the electromagnetic dipole moments of the top quark in gamma gamma, gamma gamma* and gamma*gamma* collisions at the CLIC**
Billur A. A., Koksal M., Gutierrez-Rodriguez A.
PHYSICAL REVIEW D, cilt.96, sa.5, 2017 (SCI-Expanded)
- XXXI. **Bounds on the Electromagnetic Dipole Moments through the Single Top Production at the CLIC**
Koksal M., Billur A. A., Gutierrez-Rodriguez A.
ADVANCES IN HIGH ENERGY PHYSICS, 2017 (SCI-Expanded)
- XXXII. **Probe of the Anomalous Quartic Couplings with Beam Polarization at the CLIC**
Senol A., Koksal M., Inan S. C.
ADVANCES IN HIGH ENERGY PHYSICS, 2017 (SCI-Expanded)
- XXXIII. **Anomalous WW gamma couplings with beam polarization at the Compact Linear Collider**
Ari V., Billur A. A., Inan S. C., Koksal M.
NUCLEAR PHYSICS B, cilt.906, ss.211-230, 2016 (SCI-Expanded)
- XXXIV. **Search for Anomalous Quartic ZZ gamma gamma Couplings in Photon-Photon Collisions**
Koksal M., Ari V., Senol A.
ADVANCES IN HIGH ENERGY PHYSICS, 2016 (SCI-Expanded)
- XXXV. **Search for anomalous quartic WWZ gamma couplings at the future linear e(+) e (-) collider**
Koksal M., Senol A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.30, sa.20, 2015 (SCI-Expanded)
- XXXVI. **Improved bounds on the dipole moments of the tau neutrino from high-energy gamma*e(-) and gamma*gamma* collisions at the ILC and CLIC**
Gutierrez-Rodriguez A., Koksal M., Billur A. A.
PHYSICAL REVIEW D, cilt.91, sa.9, 2015 (SCI-Expanded)

- XXXVII. **Anomalous quartic ZZ gamma gamma couplings at the CLIC**
Koksal M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.130, sa.4, 2015 (SCI-Expanded)
- XXXVIII. **Probe of anomalous quartic WWZ gamma couplings in photon-photon collisions**
Senol A., Koksal M.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2015 (SCI-Expanded)
- XXXIX. **Analysis of anomalous quartic W W Z gamma couplings in gamma p collision at the LHC**
Senol A., Koksal M.
PHYSICS LETTERS B, cilt.742, ss.143-148, 2015 (SCI-Expanded)
- XL. **Graviton production through photon-quark scattering at the LHC**
Sahin I., Koksal M., Inan S. C., Billur A. A., Sahin B., Tektas P., Alici E., Yildirim R.
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- XLI. **Study of anomalous WW gamma gamma coupling sensitivity at the compact linear collider**
Koksal M.
MODERN PHYSICS LETTERS A, cilt.29, sa.34, 2014 (SCI-Expanded)
- XLII. **Analysis of excited neutrinos at the CLIC**
Koksal M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.29, sa.24, 2014 (SCI-Expanded)
- XLIII. **Probe of the electromagnetic moments of the tau lepton in gamma-gamma collisions at the CLIC**
Billur A. A., Koksal M.
PHYSICAL REVIEW D, cilt.89, sa.3, 2014 (SCI-Expanded)
- XLIV. **Anomalous tq gamma Couplings in gamma p Collision at the LHC**
Koksal M., Inan S. C.
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- XLV. **Search for the Anomalous Interactions of Up-Type Heavy Quarks in gamma gamma Collision at the LHC**
Koksal M., Inan S. C.
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI-Expanded)
- XLVI. **THE EFFECT OF ELECTROMAGNETIC PROPERTIES OF NEUTRINOS ON THE PHOTON-NEUTRINO DECOUPLING TEMPERATURE**
Inan S. C., Koksal M.
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- XLVII. **The Impact of Excited Neutrinos on $\nu(\bar{\nu}) \rightarrow \gamma \gamma$ Process**
Inan S. C., Koksal M.
ADVANCES IN HIGH ENERGY PHYSICS, 2012 (SCI-Expanded)
- XLVIII. **Search for electromagnetic properties of the neutrinos at the LHC**
Sahin I., Koksal M.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2011 (SCI-Expanded)
- XLIX. **The effects of the magnetic field and dielectric screening on the diamagnetic susceptibility of a donor in a quantum well with anisotropic effective mass**
Kilicarslan E., Sakiroglu S., Koksal M., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.42, sa.5, ss.1531-1535, 2010 (SCI-Expanded)
- L. **Magnetic-field effect on the diamagnetic susceptibility of hydrogenic impurities in quantum well-wires**
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PHYSICA B-CONDENSED MATTER, cilt.404, sa.21, ss.3850-3854, 2009 (SCI-Expanded)
- LI. **Photoionization cross-section and binding energy of donor impurities in GaAs, Ge and Si quantum wires with infinite barriers**
Koksal M., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, cilt.46, sa.3, ss.507-512, 2009 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Probing the Anomalous $tq\gamma$ Couplings in $\gamma\gamma$ Collisions at the LHC**
Köksal M.
Cumhuriyet Science Journal, cilt.37, sa.4, ss.32-38, 2016 (Hakemli Dergi)
- II. **Search for the anomalous electromagnetic moments of the tau lepton through electron photon scattering at the CLIC**
ÖZGÜVEN Y., İNAN S. C., BİLLUR A. A., KÖKSAL M., BAHAR M. K.
arXiv, 2016 (Hakemsiz Dergi)
- III. **Nötrinin Elektromagnetik Özellikleri**
KÖKSAL M., ŞAHİN İ.
Karaelmas Science and Engineering Journal, cilt.1, ss.15-19, 2011 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Probing the prospective FCC-he sensitivities on the electromagnetic dipole moments of the top-quark**
hernandezruiz M., KÖKSAL M., BİLLUR A. A., Gutierrezrodriguez A.
40th International Conference on High Energy physics - ICHEP2020, PRAG, Çek Cumhuriyeti, 28 Temmuz 2020
- II. **Sensitivity on the electromagnetic dipole moments of the tau-lepton at the CLIC**
hernandezruiz M., Gutierrezrodriguez A., BİLLUR A. A., KÖKSAL M.
15th international workshop on Tau Lepton Physics, 24 - 28 Eylül 2018
- III. **Limits on the anomalous magnetic and electric dipole moments of the tau-neutrino in pp collisions at the LHC**
gutierrezrodriguez a., KÖKSAL M., BİLLUR A. A., hernandezruiz m.
15th International Workshop on Tau Lepton Physics, 24 - 28 Eylül 2018
- IV. **Limits on the anomalous magnetic and electric dipole moments of the -neutrino in pp collisions at the LHC**
Gutierrezrodriguez A., KÖKSAL M., BİLLUR A. A., hernandezruiz M.
the 15th International Workshop on Tau Lepton Physics, 24 - 28 Eylül 2018
- V. **Probing the dipole moments of the top quark at high energy photon-photon collisions at the clic**
BİLLUR A. A., KÖKSAL M., Gutierrezrodriguez A.
Türk fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 Eylül 2017
- VI. **Search for spin 3/2 excited leptons via photoninduced reactions at the LHC**
İNAN S. C., BİLLUR A. A., KÖKSAL M.
3rd International Conference on Engineering and Natural Science, 3 - 07 Mayıs 2017
- VII. **Probing for the anomalous electromagnetic moments of the tau lepton via electron-photon interactions at the CLIC**
BİLLUR A. A., KÖKSAL M., İNAN S. C.
3th International Conference on Engineering and Natural Sciences, 3 - 07 Mayıs 2017
- VIII. **Probing The Anomalous Electromagnetic Moments Of The Tau Lepton In γp Collisions At The LHC**
KÖKSAL M., İNAN S. C., BİLLUR A. A., BAHAR M. K., Özgüven Y.
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- IX. **Search for anomalous $tq\gamma$ interactions through gamma-gamma collisions at the CLIC**
KÖKSAL M., İNAN S. C., BİLLUR A. A.
3th International Conference on Engineering and Natural Sciences, 3 - 07 Mayıs 2017
- X. **Gauge Bosons Anomalous Quartic Couplings Search at the CLIC**
İNAN S. C., KÖKSAL M., ŞENOL A.
III. International Conference on Engineering and Natural Sciences, 3 - 07 Mayıs 2017
- XI. **Search for the electromagnetic dipole moments of the top quark at the clic**

KÖKSAL M., BİLLUR A. A., Gutierrezrodriguez A.

3RD international conference on engineering and natural sciences, 3 - 07 Mayıs 2017

XII. Probing the Anomalous Quartic ZZGG Couplings in the Future Linear Colliders

KÖKSAL M., ARI V., SENOL A.

IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 Eylül 2016

XIII. Probing the dipole moments of the tau neutrino at high energy $e e$ and gg collisions ILC and CLIC

Alejandro G. R., KÖKSAL M., BİLLUR A. A.

European Physical Society Conference on High Energy Physics 2015, 22 - 29 Temmuz 2015

XIV. Probing the dipole moments of the tau neutrino at high energy $e e$ and collisions ILC and CLIC

rodriguez alejandro g., KÖKSAL M., BİLLUR A. A.

European Physical Society HEP 2015, 22 - 29 Temmuz 2015, cilt.52

XV. The polarizability and the photoionization cross-section under the external fields for donor impurities in quantum well-wire

Koksal M., Kasapoglu E., Sari H., Sokmen I.

International Conference on Superlattices, Nano-Structures and Nano-Devices, İstanbul, Türkiye, 30 Temmuz - 04 Ağustos 2006, cilt.4, ss.332-333

Metrikler

Yayın: 69

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Atf (Scopus): 454

H-İndeks (WoS): 14

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