

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. **Model-independent study on the anomalous $\tau\tau\gamma$ couplings at the ILC**
KÖKSAL M.
Nuclear Physics B, cilt.971, 2021 (SCI Expanded İndekslerine Giren Dergi)
- II. **Search for the anomalous $WW\gamma$ couplings through the process $e^-e^+\rightarrow\nu e\nu\bar{e}\gamma$ 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 İndekslerine Giren Dergi)
- III. **Analysis of the anomalous quartic $WWWW$ couplings at the LHeC and the FCC-he**
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EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.7, 2021 (SCI İndekslerine Giren Dergi)
- IV. **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 İndekslerine Giren Dergi)
- V. **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 İndekslerine Giren Dergi)
- VI. **Sensitivity measuring expected on the electromagnetic anomalous couplings in the $t(\bar{t})\gamma$ 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 İndekslerine Giren Dergi)
- VII. **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 İndekslerine Giren Dergi)
- VIII. **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 İndekslerine Giren Dergi)

- IX. **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 İndekslerine Giren Dergi)
- X. **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 İndekslerine Giren Dergi)
- XI. **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 İndekslerine Giren Dergi)
- XII. **Probing model-independent limits on $W+W$ -gamma triple gauge boson vertex at the LHeC and the FCC-he**
Gutierrez-Rodriguez A., Koksal M., Billur A. A. , Hernandez-Ruiz M. A.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.47, sa.5, 2020 (SCI İndekslerine Giren Dergi)
- XIII. **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. , Koksal M.
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- XIV. **Probing the anomalous electromagnetic dipole moments of the top quark in gamma p collision at the LHC, the HL-LHC and the HE-LHC**
Koksal M.
NUCLEAR PHYSICS B, cilt.950, 2020 (SCI İndekslerine Giren Dergi)
- XV. **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 İndekslerine Giren Dergi)
- XVI. **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.
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- XVII. **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 İndekslerine Giren Dergi)
- XVIII. **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 İndekslerine Giren Dergi)
- XIX. **The $\mu(+)\mu(-)$ 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 İndekslerine Giren Dergi)
- XX. **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 İndekslerine Giren Dergi)
- XXI. **Model-independent sensibility studies for the anomalous dipole moments of the $\nu(\text{tau})$ at the CLIC based $e(+)\mu(-)$ 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 İndekslerine Giren Dergi)
- XXII. **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 İndekslerine Giren Dergi)

XXIII. 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 İndekslerine Giren Dergi)

XXIV. 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 İndekslerine Giren Dergi)

XXV. 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 İndekslerine Giren Dergi)

XXVI. 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 İndekslerine Giren Dergi)

XXVII. 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 İndekslerine Giren Dergi)

XXVIII. 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 İndekslerine Giren Dergi)

XXIX. 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 İndekslerine Giren Dergi)

XXX. 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 İndekslerine Giren Dergi)

XXXI. 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 İndekslerine Giren Dergi)

XXXII. Anomalous quartic ZZ gamma gamma couplings at the CLIC

Koksal M.

EUROPEAN PHYSICAL JOURNAL PLUS, cilt.130, sa.4, 2015 (SCI İndekslerine Giren Dergi)

XXXIII. Probe of anomalous quartic WWZ gamma couplings in photon-photon collisions

Senol A., Koksal M.

JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2015 (SCI İndekslerine Giren Dergi)

XXXIV. 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 İndekslerine Giren Dergi)

XXXV. 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.

PHYSICAL REVIEW D, cilt.91, sa.3, 2015 (SCI İndekslerine Giren Dergi)

XXXVI. 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 İndekslerine Giren Dergi)

XXXVII. Analysis of excited neutrinos at the CLIC

Koksal M.

- INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.29, sa.24, 2014 (SCI İndekslerine Giren Dergi)
- XXXVIII. **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 İndekslerine Giren Dergi)
- XXXIX. **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 İndekslerine Giren Dergi)
- XL. **Anomalous tq gamma Couplings in gamma p Collision at the LHC**
Koksal M., Inan S. C.
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI İndekslerine Giren Dergi)
- XLI. **THE EFFECT OF ELECTROMAGNETIC PROPERTIES OF NEUTRINOS ON THE PHOTON-NEUTRINO DECOUPLING TEMPERATURE**
Inan S. C. , Koksal M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.27, sa.32, 2012 (SCI İndekslerine Giren Dergi)
- XLII. **The Impact of Excited Neutrinos on nu(nu)over-bar -> gamma gamma Process**
Inan S. C. , Koksal M.
ADVANCES IN HIGH ENERGY PHYSICS, 2012 (SCI İndekslerine Giren Dergi)
- XLIII. **Search for electromagnetic properties of the neutrinos at the LHC**
Sahin I., Koksal M.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2011 (SCI İndekslerine Giren Dergi)
- XLIV. **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 İndekslerine Giren Dergi)
- XLV. **Magnetic-field effect on the diamagnetic susceptibility of hydrogenic impurities in quantum well-wires**
Koksal M., Kilicarslan E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, cilt.404, sa.21, ss.3850-3854, 2009 (SCI İndekslerine Giren Dergi)
- XLVI. **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 İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Probing the Anomalous tq Couplings in $\gamma\gamma$ Collisions at the LHC**
Köksal M.
Cumhuriyet Science Journal, cilt.37, sa.4, ss.32-38, 2016 (Hakemli Üniversite Dergisi)
- 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 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Sensitivity on the electromagnetic dipole moment 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
- II. **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
- III. **Limits on the anomalous magnetic and electric dipole moments of the -neutrino in pp collisions at the LHC**
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- IV. **Probing the dipole moments of the top quark at high energy photon-photon collisions at the CLIC**
BİLLUR A. A., KÖKSAL M., Gutierrezrodriguez A.
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- V. **Search for anomalous top-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
- VI. **Probing The Anomalous Electromagnetic Moments Of The Tau Lepton In $\gamma\gamma$ Collisions At The LHC**
KÖKSAL M., İNAN S. C., BİLLUR A. A., BAHAR M. K., Özgüven Y.
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- 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. **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
- IX. **Search for spin 3/2 excited leptons via photon-induced reactions at the LHC**
İNAN S. C., BİLLUR A. A., KÖKSAL M.
3rd International Conference on Engineering and Natural Science, 3 - 07 Mayıs 2017
- X. **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
- XI. **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
- XII. **Probing the dipole moments of the tau neutrino at high energy 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
- XIII. **Probing the dipole moments of the tau neutrino at high energy $g e$ and $g g$ collisions ILC and CLIC**
Alejandro G. R., KÖKSAL M., BİLLUR A. A.
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- XIV. **The polarizability and the photoionization cross-section under the external fields for donor impurities in quantum well-wire**
Köksal M., Kasapoglu E., Sari H., Sokmen I.
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Atıflar

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