

Prof. Dr. MURAT KÖKSAL

Kişisel Bilgiler

E-posta: mkoksal@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/mkoksal>

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
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İstatistik, Lisans, 2014 - 2015
Bilgisayar - I, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Probing the electromagnetic properties of the neutrinos at future lepton colliders**
Denizli H., Senol A., KÖKSAL M.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)
- II. **Search for the anomalous ZZZ and ZZ γ gauge couplings through the process $e+e\rightarrow ZZ$ with unpolarized and polarized beams**
Cetinkaya V., Spor S., Gurkanli E., KÖKSAL M.
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- III. **Search for the anomalous quartic gauge couplings through Z γ production at $e - e +$ colliders**
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- IV. **Expected sensitivity on the anomalous quartic neutral gauge couplings in $\gamma\gamma$ collisions at the CLIC**
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European Physical Journal Plus, cilt.138, sa.12, 2023 (SCI-Expanded)
- V. **Projected sensitivity to dimension-6 triple gauge couplings at the FCC-hh**
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Nuclear Physics B, cilt.996, 2023 (SCI-Expanded)
- VI. **Investigation of anomalous triple gauge couplings in $\mu\gamma$ collision at multi-TeV muon colliders**
Spor S., KÖKSAL M.
Canadian Journal of Physics, cilt.101, sa.10, ss.549-559, 2023 (SCI-Expanded)
- VII. **Search for the electromagnetic properties of the neutrinos at the HL-LHC and the FCC-hh**
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- VIII. **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.
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- IX. **Model-independent study on the anomalous ZZ γ and Z $\gamma\gamma$ couplings at the future muon collider**
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European Physical Journal Plus, cilt.137, sa.12, 2022 (SCI-Expanded)

- X. **Future projections on the anomalous WW gamma gamma couplings in hadron-hadron interactions at the FCC-hh**
Gutierrez-Rodriguez A., Ari V., Gurkanli E., Koksalsal M., Hernandez-Ruiz M. A.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.49, sa.10, 2022 (SCI-Expanded)
- XI. **Search for the anomalous ZZ gamma and Z gamma gamma couplings via nu nu gamma production at the CLIC**
Spor S., Gurkanli E., Koksalsal M.
NUCLEAR PHYSICS B, cilt.979, 2022 (SCI-Expanded)
- XII. **Feasibility at the LHC, FCC-he and CLIC for Sensitivity Estimates on Anomalous Electromagnetic Couplings of the tau-lepton**
Gutierrez-Rodriguez A., Koksalsal M., Billur A. A., Hernandez-Ruiz M. A.
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- XIII. **Sensitivity analysis for the anomalous W+ W- gamma couplings at the LHeC and the FCC-he**
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- XIV. **Model-independent study on the anomalous $\tau\tau\gamma$ couplings at the ILC**
KÖKSAL M.
Nuclear Physics B, cilt.971, 2021 (SCI-Expanded)
- XV. **Search for the anomalous WW γ couplings through the process $e-e+\rightarrow\text{vev}^-e\gamma$ 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)
- XVI. **Analysis of the anomalous quartic WWWW couplings at the LHeC and the FCC-he**
Gurkanli E., Ari V., Billur A. A., Koksalsal M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.7, 2021 (SCI-Expanded)
- XVII. **Model-independent limits for anomalous triple gauge bosons W+W-gamma couplings at the CLIC**
Billur A. A., Koksalsal M., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.6, 2021 (SCI-Expanded)
- XVIII. **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., Koksalsal M.
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- XIX. **Sensitivity measuring expected on the electromagnetic anomalous couplings in the $t(t)\text{over-bar}$ 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)
- XX. **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)
- XXI. **Bounds on the non-standard W+W- γ couplings at the LHeC and the FCC-he**
Köksal M., Billur A. A., Gutierrez-Rodriguez A., Hernández-Ruíz M.
Physics Letters B, cilt.808, ss.135661-135682, 2020 (SCI-Expanded)
- XXII. **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)
- XXIII. **Model independent study for the anomalous quartic WW gamma gamma couplings at future electron-proton colliders**
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- XXIV. **Model-independent sensitivity estimates for the electromagnetic dipole moments of the top quark at the Large Hadron Collider and beyond**
Köksal M.
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- XXV. **Probing model-independent limits on $W+W$ -gamma triple gauge boson vertex at the LHeC and the FCC-he**
Gutierrez-Rodriguez A, Köksal M., Billur A. A., Hernandez-Ruiz M. A.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.47, sa.5, 2020 (SCI-Expanded)
- XXVI. **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., Köksal M.
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- XXVII. **Probing the anomalous electromagnetic dipole moments of the top quark in gamma p collision at the LHC, the HL-LHC and the HE-LHC**
Köksal M.
NUCLEAR PHYSICS B, cilt.950, 2020 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **Search for the electromagnetic moments of the tau lepton in photon-photon collisions at the LHeC and the FCC-he**
Köksal M.
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- XXXII. **The $\mu(+)\mu(-)$ collider to sensitivity estimates on the magnetic and electric dipole moments of the tau-lepton**
Köksal M., Billur A. A., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.34, sa.15, 2019 (SCI-Expanded)
- XXXIII. **FCC-he sensitivity estimates on the anomalous electromagnetic dipole moments of the top-quark**
Hernandez-Ruiz M. A., Gutierrez-Rodriguez A., Köksal M., Billur A. A.
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- XXXIV. **Model-independent sensibility studies for the anomalous dipole moments of the $\nu(\tau)$ at the CLIC based $e(+)\mu(-)$ and gamma $e(-)$ colliders**
Billur A. A., Köksal M., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
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- XXXV. **Analysis of the anomalous electromagnetic moments of the tau lepton in gamma p collisions at the LHC**
Köksal M., Inan S. C., Billur A. A., Ozguven Y., Bahar M. K.
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- XXXVI. **Model-independent sensitivity estimates for the electromagnetic dipole moments of the tau-lepton at the CLIC**
Köksal M., Billur A. A., Gutierrez-Rodriguez A., Hernandez-Ruiz M. A.
PHYSICAL REVIEW D, cilt.98, sa.1, 2018 (SCI-Expanded)
- XXXVII. **Search for the anomalous electromagnetic moments of tau lepton through electron-photon**

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- XXXVIII. **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., Koksals M., Gutierrez-Rodriguez A.
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- XXXIX. **Probe of the Anomalous Quartic Couplings with Beam Polarization at the CLIC**
Senol A., Koksals M., Inan S. C.
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- XL. **Bounds on the Electromagnetic Dipole Moments through the Single Top Production at the CLIC**
Koksals M., Billur A. A., Gutierrez-Rodriguez A.
ADVANCES IN HIGH ENERGY PHYSICS, 2017 (SCI-Expanded)
- XLI. **Anomalous WW γ couplings with beam polarization at the Compact Linear Collider**
Ari V., Billur A. A., Inan S. C., Koksals M.
NUCLEAR PHYSICS B, cilt.906, ss.211-230, 2016 (SCI-Expanded)
- XLII. **Search for Anomalous Quartic ZZ $\gamma\gamma$ Couplings in Photon-Photon Collisions**
Koksals M., Ari V., Senol A.
ADVANCES IN HIGH ENERGY PHYSICS, 2016 (SCI-Expanded)
- XLIII. **Search for anomalous quartic WWZ γ couplings at the future linear $e^{(+)}e^{(-)}$ collider**
Koksals M., Senol A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.30, sa.20, 2015 (SCI-Expanded)
- XLIV. **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., Koksals M., Billur A. A.
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- XLV. **Anomalous quartic ZZ $\gamma\gamma$ couplings at the CLIC**
Koksals M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.130, sa.4, 2015 (SCI-Expanded)
- XLVI. **Probe of anomalous quartic WWZ γ couplings in photon-photon collisions**
Senol A., Koksals M.
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- XLVII. **Analysis of anomalous quartic W W Z γ couplings in γp collision at the LHC**
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- XLVIII. **Graviton production through photon-quark scattering at the LHC**
Sahin I., Koksals M., Inan S. C., Billur A. A., Sahin B., Tektas P., Alici E., Yildirim R.
PHYSICAL REVIEW D, cilt.91, sa.3, 2015 (SCI-Expanded)
- XLIX. **Study of anomalous WW $\gamma\gamma$ coupling sensitivity at the compact linear collider**
Koksals M.
MODERN PHYSICS LETTERS A, cilt.29, sa.34, 2014 (SCI-Expanded)
- L. **Analysis of excited neutrinos at the CLIC**
Koksals M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.29, sa.24, 2014 (SCI-Expanded)
- LI. **Probe of the electromagnetic moments of the tau lepton in $\gamma\gamma$ collisions at the CLIC**
Billur A. A., Koksals M.
PHYSICAL REVIEW D, cilt.89, sa.3, 2014 (SCI-Expanded)
- LII. **Search for the Anomalous Interactions of Up-Type Heavy Quarks in $\gamma\gamma$ Collision at the LHC**
Koksals M., Inan S. C.
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI-Expanded)

- LIII. **Anomalous tq gamma Couplings in gamma p Collision at the LHC**
Koksal M., Inan S. C.
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI-Expanded)
- LIV. **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-Expanded)
- LV. **The Impact of Excited Neutrinos on $\nu(\nu)$ over-bar \rightarrow gamma gamma Process**
Inan S. C., Koksal M.
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- LVI. **Search for electromagnetic properties of the neutrinos at the LHC**
Sahin I., Koksal M.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2011 (SCI-Expanded)
- LVII. **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.
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- LVIII. **Magnetic-field effect on the diamagnetic susceptibility of hydrogenic impurities in quantum well-wires**
Koksal M., Kilicarslan E., Sari H., Sokmen I.
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- LIX. **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.
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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 momentsof 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 τ -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 $\gamma\gamma$ 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 $g e$ and $g g$ 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.
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- XV. **The polarizability and the photoionization cross-section under the external fields for donor impurities in quantum well-wire**
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Metrikler

Yayın: 77

Atf (WoS): 452

Atf (Scopus): 544

H-İndeks (WoS): 14

H-İndeks (Scopus): 15