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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: N-3421-2014

ScopusID: 553257581005555325758100555325758100

Yoksis Araştırmacı ID: 205326

Eğitim Bilgileri

Doktora, University of Delaware, Physics And Astronomy Department, Amerika Birleşik Devletleri 2009 - 2014

Yüksek Lisans, İzmir Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli) (İngilizce),

Türkiye 2003 - 2006

Lisans, Ege Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1997 - 2002

Yaptığı Tezler

Doktora, Higgs boson, sparticle masses and neutralino dark matter in Yukawa unified models, University of Delaware, Physics And Astronomy Department, 2014

Yüksek Lisans, Extra time-like dimensions, İzmir Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli) (İngilizce), 2006

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar, Genel alan ve parçacık teorisi, Özel parçacıkların özellikleri, Özel reaksiyonlar ve fenomenoloji, Özel teoriler ve etkileşme modelleri, parçacık sistematığı, Temel Bilimler

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Muon $g-2$ and lepton flavor violation in supersymmetric GUTs**
Gómez M. E., Lola S., Shafi Q., Ün C. S.
Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- Monophoton events with light Higgs bosons in the secluded UMSSM**
Hiçyllmaz Y., Selbuz L., Ün C. S.
Physical Review D, cilt.108, sa.7, 2023 (SCI-Expanded)
- Third family quasi-Yukawa unification: Higgsino dark matter, NLSP gluino, and all that**
Shafi Q., Tiwari A., Ün C. S.
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- Explaining the R (D) and R (D*) anomalies in the B-L supersymmetric standard model with inverse**

seesaw mechanism

Boubaa D., Khalil S., Moretti S., Ün C. S.

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- V. **Muon $g-2$, neutralino dark matter and stau NLSP**
Gomez M. E., Shafi Q., Tiwari A., Ün C. S.
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- VI. **The 28 GeV dimuon excess in lepton specific THDM**
Cici A., Khalil S., Nis B., Ün C. S.
NUCLEAR PHYSICS B, cilt.977, 2022 (SCI-Expanded)
- VII. **Model characterization and dark matter in the secluded $U(1)'$ model**
Hicyilmaz Y., SELBUZ L., SOLMAZ L., Ün C. S.
PHYSICAL REVIEW D, cilt.105, sa.5, 2022 (SCI-Expanded)
- VIII. **Proton lifetime in minimal SUSY $SU(5)$ in light of LHC results**
Babu K. S., Gogoladze I., Ün C. S.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.2, 2022 (SCI-Expanded)
- IX. **Electron and muon magnetic moments and implications for dark matter and model characterisation in non-universal $U(1)'$ supersymmetric models**
Frank M., Hicyilmaz Y., Mondal S., Ozdal O., Ün C. S.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.10, 2021 (SCI-Expanded)
- X. **Sparticle spectroscopy and dark matter in a $U(1)(B-L)$ extension of MSSM**
Ahmed W., Raza S., Shafi Q., Ün C. S., Zhu B.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2021 (SCI-Expanded)
- XI. **Stop search in SUSY $SO(10)$ GUTs with nonuniversal Gaugino masses**
Altin Z., KIRCA Z., Tanimak T., Salih Ün C. S.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.9, 2020 (SCI-Expanded)
- XII. **Testing Yukawa unification at LHC Run-3 and HL-LHC**
Gomez M. E., Shafi Q., Ün C. S.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.7, 2020 (SCI-Expanded)
- XIII. **b - Yukawa unification in SUSY $SU(5)$ with mirage mediation: LHC and dark matter implications**
Raza S., Shafi Q., Ün C. S.
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- XIV. **Least fine-tuned $U(1)$ extended SSM**
Hicyilmaz Y., SOLMAZ L., Tanyildizi S. H., Ün C. S.
NUCLEAR PHYSICS B, cilt.933, ss.275-298, 2018 (SCI-Expanded)
- XV. **Sneutrino Dark Matter in the BLSSM**
Delle Rose L., Khalil S., King S. J. D., Kulkarni S., Marzo C., Moretti S., Ün C. S.
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- XVI. **Charged Higgs boson in MSSM and beyond**
Hicyilmaz Y., SELBUZ L., SOLMAZ L., Ün C. S.
PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- XVII. **Phenomenology of 2HDM with vectorlike quarks**
Arhrib A., Benbrik R., King S. J. D., Manaut B., Moretti S., Ün C. S.
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- XVIII. **Muon $g-2$ in an alternative quasi-Yukawa unification with a less fine-tuned seesaw mechanism**
Altin Z., Ozdal O., Ün C. S.
PHYSICAL REVIEW D, cilt.97, sa.5, 2018 (SCI-Expanded)
- XIX. **Light stops and fine-tuning in MSSM**
Cici A., KIRCA Z., Ün C. S.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.1, 2018 (SCI-Expanded)
- XX. **Naturalness and dark matter in the supersymmetric $B - L$ extension of the standard model**
Delle Rose L., Khalil S., King S. J. D., Marzo C., Moretti S., Ün C. S.

- PHYSICAL REVIEW D, cilt.96, sa.5, 2017 (SCI-Expanded)
- XXI. **Light Higgsinos, heavy gluino, and b-tau quasi-Yukawa unification: Prospects for finding the gluino at the LHC**
Hebbar A., Shafi Q., ÜN C. S.
PHYSICAL REVIEW D, cilt.95, sa.11, 2017 (SCI-Expanded)
- XXII. **Large BR(h → tau mu) in supersymmetric models**
Hammad A., Khalil S., ÜN C. S.
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- XXIII. **Muon g-2 in gauge mediated supersymmetry breaking models with adjoint messengers**
Gogoladze I., ÜN C. S.
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- XXIV. **Muon anomalous magnetic moment in SUSY B - L model with inverse seesaw**
Khalil S., ÜN C. S.
PHYSICS LETTERS B, cilt.763, ss.164-168, 2016 (SCI-Expanded)
- XXV. **Quasi-Yukawa unification and fine-tuning in U(1) extended SSM**
Hicyilmaz Y., Ceylan M., Altas A., SOLMAZ L., ÜN C. S.
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- XXVI. **Gauge mediation models with adjoint messengers**
Gogoladze I., Mustafayev A., Shafi Q., ÜN C. S.
PHYSICAL REVIEW D, cilt.94, sa.7, 2016 (SCI-Expanded)
- XXVII. **Mass spectrum and Higgs profile in B - L symmetric SSM**
ÜN C. S., Ozdal O.
PHYSICAL REVIEW D, cilt.93, sa.5, 2016 (SCI-Expanded)
- XXVIII. **Reconciling the muon g-2, a 125 GeV Higgs boson, and dark matter in gauge mediation models**
Gogoladze I., Shafi Q., ÜN C. S.
PHYSICAL REVIEW D, cilt.92, sa.11, 2015 (SCI-Expanded)
- XXIX. **Neutralino dark matter and other LHC predictions from quasi Yukawa unification**
Shafi Q., Tanyildizi S. H., ÜN C. S.
NUCLEAR PHYSICS B, cilt.900, ss.400-411, 2015 (SCI-Expanded)
- XXX. **NLSP gluino and NLSP stop scenarios from b - tau Yukawa unification**
Raza S., Shafi Q., ÜN C. S.
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- XXXI. **Yukawa unification and sparticle spectroscopy in gauge mediation models**
Gogoladze I., Mustafayev A., Shafi Q., ÜN C. S.
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- XXXII. **Generalized soft breaking leverage for the MSSM**
ÜN C. S., Tanyildizi S. H., KERMAN S., SOLMAZ L.
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- XXXIII. **Muon g-2, 125 GeV Higgs boson, and neutralino dark matter in a flavor symmetry-based MSSM**
Babu K. S., Gogoladze I., Shafi Q., ÜN C. S.
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- XXXIV. **Stop on top: SUSY parameter regions and fine-tuning constraints**
DEMİR D. A., ÜN C. S.
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- XXXV. **Nonuniversal gaugino masses and muon g-2**
Gogoladze I., Nasir F., Shafi Q., Uen C. S.
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- XXXVI. **Split sfermion families, Yukawa unification and muon g-2**
Ajaib M. A., Gogoladze I., Shafi Q., Uen C. S.
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- XXXVII. **A predictive Yukawa unified SO(10) model: Higgs and sparticle masses**

- Ajaib M. A., Gogoladze I., Shafi Q., Uen C. S.
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- XXXVIII. **Higgs boson mass from t-b-tau Yukawa unification**
Gogoladze I., Shafi Q., Uen C. S.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2012 (SCI-Expanded)
- XXXIX. **125 GeV Higgs boson from t-b-tau Yukawa unification**
Gogoladze I., Shafi Q., Uen C. S.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2012 (SCI-Expanded)
- XL. **SO(10) Yukawa unification with $\mu < 0$**
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PHYSICS LETTERS B, cilt.704, sa.3, ss.201-205, 2011 (SCI-Expanded)
- XLI. **Sparticle spectroscopy with neutralino dark matter from t-b-tau quasi-Yukawa unification**
Dar S., Gogoladze I., Shafi Q., Uen C. S.
PHYSICAL REVIEW D, cilt.84, sa.8, 2011 (SCI-Expanded)
- XLII. **Reconsidering extra time-like dimensions**
Erdem R., Ün C. S.
EUROPEAN PHYSICAL JOURNAL C, cilt.47, sa.3, ss.845-850, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

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Ün C. S.
Turkish Journal of Physics, cilt.48, sa.1, ss.1-27, 2024 (ESCI)
- II. **Muon g-2 in Light of LHC and DM Experiments**
Ün C. S., Gómez M., Shafi Q., Tiwari A.
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- III. **Muon $g - 2$, Dark Matter, and Lepton Flavor Violation in SUSY-GUT's**
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- IV. **Prospects for sneutrino Dark Matter in the BLSSM**
King S. J. D., Delle Rose L., Khalil S., Kulkarni S., Marzo C., Moretti S., Ün C. S.
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, cilt.41, sa.4, 2018 (ESCI)

Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Mass Spectrum and Higgs Profile in B-L Symmetric SSM**
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- II. **Charge Higgs in MSSM and Beyond**
HIÇYILMAZ Y., SELBUZ L., SOLMAZ L., ÜN C. S.
Higgs Couplings 2019, Londrina, Brezilya, 30 Eylül - 04 Ekim 2019
- III. **Associated Production of Charged Higgs Boson and Heavy Top Quark in the Left Right Twin Higgs Model at High Energy Electron Positron Collider**
KIRCA Z., ÜN C. S., Altın Z.
10 th Jubilee International Conference of the Balkan Physical Union, 26 - 30 Ağustos 2018
- IV. **Associated Production of Charged Higgs Boson and Heavy Top Quark in the Left-Right Twin Higgs Model at High Energy $e(-)e(+)$ Collider**
KIRCA Z., ÜN C. S., Altın Z.
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- V. **Sneutrino dark matter, constraints and perspectives**
 Rose L. D., Khalil S., King S. J., Kulkarni S., Marzo C., Moretti S., Ün C. S.
 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories, EW 2018, La Thuile, İtalya, 10 - 17 Mart 2018, ss.423-426
- VI. **Naturalness and Dark Matter in the BLSSM**
 marzo c., Ün C. S., Rose L. D., King S. J., Khalil S., Moretti S.
 EPS-HEP 2017, 5 - 12 Temmuz 2017
- VII. **Stop Search with Acceptible Fine-tuning in SUSY Models**
 Çiçi A., Ün C. S., KIRCA Z.
 Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- VIII. **Prohibing the Littlest Higgs Model in e-e--WHTb Process**
 Altın Z., KIRCA Z., Ün C. S.
 Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- IX. **Light Higgs Bosons and Muon g-2 in THDM**
 Nis B., CiCi A., Ün C. S., KIRCA Z.
 32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815
- X. **Probing The Littlest Higgs Model in e(-) e(+) -> W-H(+) (T)over-bar b Process**
 Altın Z., KIRCA Z., Ün C. S.
 32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815
- XI. **Supersymmetric gauged b-l model of dark matter and fine tuning**
 Rose L. D., Khalil S., King S., Marzo C., Moretti S., Ün C. S.
 2017 European Physical Society Conference on High Energy Physics, EPS-HEP 2017, Venice, İtalya, 5 - 12 Temmuz 2017
- XII. **Lepton Flavor Violating Higgs Decays in Supersymmetric Models**
 Ün C. S., Hammad A., Khalil S.
 32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815
- XIII. **Naturalness and Dark Matter Properties of the BLSSM**
 Rose L. D., Khalil S., King S., Marzo C., Moretti S., Ün C. S.
 25th International Workshop on Deep-Inelastic Scattering and Related Subjects, DIS 2017, Birmingham, Birleşik Krallık, 3 - 07 Nisan 2017
- XIV. **Stop Search With Acceptable Fine-Tuning in Susy Models**
 Cici A., Ün C. S., KIRCA Z.
 32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815
- XV. **Associated Production of Heavy W Boson Heavy Top Quark and Bottom Quarks in the Littlest Higgs Model At High Energy Linear e e Collider**
 Altın Z., KIRCA Z., Ün C. S.
 Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- XVI. **Higgs Boson Decays into Two Photons and Four Leptons in THDM**
 Niş B., Çiçi A., KIRCA Z., Ün C. S.
 Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- XVII. **Production of Heavy Top Quark Associated with Charged Higgs Boson in the Left Right Twin Higgs Model**
 Yıldız B., Altın Z., KIRCA Z., Ün C. S.
 Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- XVIII. **Muon g 2 in MSSM and B L SSM**
 Ün C. S.
 Scalars 2015, Varşova, Polonya, 3 - 07 Aralık 2015

- XIX. **Littlest Higgs Model in High Energy Linear Electron Positron Colliders: Production of Heavy W boson and Heavy Top Quark**
Altın Z., ÜN C. S., KIRCA Z.
VIII. International Workshop on Nuclear Structure Properties, 7 - 10 Eylül 2015
- XX. **Süpersimetrik Modellerde 125 GeV Higgs ve Muon Anomal Manyetik Moment**
ÜN C. S.
İstanbul Yüksek Enerji Fiziği Çalıştayı, Türkiye, 18 - 19 Nisan 2015
- XXI. **Süpersimetrik Modellerde Stop Top Dejenerasyonu ve İnce Ayar**
ÜN C. S.
Ankara Yüksek Enerji Fiziği Çalıştayı, Ankara, Türkiye, 12 - 14 Şubat 2015
- XXII. **Süpersimetri Higgs ve LHC**
ÜN C. S.
III. GENÇ FİZİKÇİLER KONGRESİ, İzmir, Türkiye, 14 - 16 Temmuz 2014

Desteklenen Projeler

ÜN C. S., TÜBİTAK Projesi, Süpersimetrik Modellerde Muon Anomal Manyetik Momenti Ve Yukawa Yarı Birleşimi, 2015 - 2018

Bilimsel Yayınlarda Hakemlikler

PHYSICAL REVIEW D - PARTICLES, FIELDS, GRAVITATION AND COSMOLOGY, SCI-E Kapsamındaki Dergi, Ekim 2023
PHYSICAL REVIEW D - PARTICLES, FIELDS, GRAVITATION AND COSMOLOGY, SCI-E Kapsamındaki Dergi, Şubat 2023
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LETTERS IN HIGH ENERGY PHYSICS, Diğer İndekslerce Taranan Dergi, Ocak 2022

Metrikler

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H-İndeks (Scopus): 17

Kongre ve Sempozyum Katılımı Faaliyetleri

29. Uluslararası Süpersimetri Konferansı, Panelist, Ioannina, Yunanistan, 2022

Davetli Konuşmalar

Yüksek Enerji Fiziği - İstanbul (YEFİST), Çalıştayı, Yıldız Teknik Üniversitesi, Türkiye, Ekim 2023

Burslar

Maria Zambrano Uluslararası Araştırmacı Bursu, Yabancı Ülkelerin Resmi Kurumları, 2022 - 2023