

## Asst. Prof. ZERRİN KIRCA

### Personal Information

Email: zkirca@uludag.edu.tr

Web: <https://avesis.uludag.edu.tr/zkirca>

### International Researcher IDs

ScholarID: T-ny8bAAAAAJ

ORCID: 0000-0002-9526-8215

Publons / Web Of Science ResearcherID: AAH-8661-2021

ScopusID: 6508185203

Yoksis Researcher ID: 157818

### Education Information

Doctorate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1997 - 2003

Postgraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 1996

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 1987 - 1993

### Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2008 - Continues

Lecturer PhD, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2005 - 2008

### Advising Theses

KIRCA Z., Polarization studies on CLIC (compact linear collider) beam delivery system, Doctorate, A.Uşun(Student), 2018

KIRCA Z., Light stop and fine-tuning in susy models, Postgraduate, A.Ciçi(Student), 2017

KIRCA Z., Büyük hadron-elektron çarpıştırıcısı algıçında radyasyon seviyesi benzetişimi, Postgraduate, A.Nayaz(Student), 2017

KIRCA Z., Associated production of heavy W boson, heavy top quark and bottom quark in the littlest Higgs model at high energy linear electron-positron colliders, Postgraduate, Z.Alın(Student), 2016

KIRCA Z., Production of bileptons at electron-positron colliders, Postgraduate, H.Gülsün(Student), 2014

### Published journal articles indexed by SCI, SSCI, and AHCI

#### I. Stop search in SUSY SO(10) GUTs with nonuniversal Gaugino masses

Altin Z., KIRCA Z., Tanimak T., Salih Un C. S.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.9, 2020 (SCI-Expanded)

#### II. The impact of crystal length on calorimeter energy resolution

Saad A., Koçak F., Kırca Z.

AIP Conference Proceedings, vol.2178, no.30045, 2019 (SCI-Expanded)

#### III. Light stops and fine-tuning in MSSM

Cici A., KIRCA Z., ÜN C. S.

EUROPEAN PHYSICAL JOURNAL C, vol.78, no.1, 2018 (SCI-Expanded)

**IV. Muon anomalous magnetic moment constraints on supersymmetric U(1) $\supset'$  models**

Cincioglu E., Kirca Z., Sert H., Solmaz S., SOLMAZ L., Hicyilmaz Y.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.82, no.5, 2010 (SCI-Expanded)

**Refereed Congress / Symposium Publications in Proceedings**

**I. 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., Altin Z.

10 th Jubilee International Conference of the Balkan Physical Union, 26 - 30 August 2018

**II. 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., Altin Z.

10th Jubilee Conference of the Balkan-Physical-Union (BPU), Sofija, Bulgaria, 26 - 30 August 2018, vol.2075

**III. Production of Scalar and Vector Bileptons in Polarized Electron Gamma and Gamma Gamma Colliders**

KIRCA Z.

Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016

**IV. Prohibiting the Littlest Higgs Model in e-e--WHTb Process**

Altin Z., KIRCA Z., ÜN C. S.

Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016

**V. Stop Search with Acceptable Fine-tuning in SUSY Models**

Çiçi A., ÜN C. S., KIRCA Z.

Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016

**VI. 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, Turkey, 6 - 09 September 2016, vol.1815

**VII. Production of Scalar and Vector Bileptons in Polarized e(-)gamma and gamma gamma Colliders**

KIRCA Z.

32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815

**VIII. Probing The Littlest Higgs Model in e(-) e(+) -> W-H(+) (T)over-bar b Process**

Altin Z., KIRCA Z., ÜN C. S.

32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815

**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, Turkey, 6 - 09 September 2016, vol.1815

**X. Associated Production of Heavy W Boson Heavy Top Quark and Bottom Quarks in the Littlest Higgs Model At High Energy Linear e e Collider**

Altin Z., KIRCA Z., ÜN C. S.

Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016

**XI. 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 September 2016

**XII. Production of Heavy Top Quark Associated with Charged Higgs Boson in the Left Right Twin Higgs Model**

Yıldız B., Altin Z., KIRCA Z., ÜN C. S.

- Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016
- XIII. **Littlest Higgs Model in High Energy Linear Electron Positron Colliders: Production of Heavy W boson and Heavy Top Quark**  
Altin Z., ÜN C. S., KIRCA Z.
- VIII. International Workshop on Nuclear Structure Properties, 7 - 10 September 2015
- XIV. **Muon Anomaly Constraints on U(1)' Models**  
Cincioglu E., KIRCA Z., Sert H., Solmaz S., SOLMAZ L., HİÇYILMAZ Y.  
ISSCSMB-2010 Standard Model and Beyond-International Summer School and Conference on High Energy physics, 29 August - 04 September 2010
- XV. **Production of Bileptons at Electron Electron Colliders**  
ÇAKIR O., KIRCA Z., TÜRK ÇAKIR İ.  
World Year of Physics 2005 Turkish Physical Society 23rd International Physics Congress, 13 - 16 September 2005
- XVI. **CLIC Temelinde Elektron Foton Çarpıştırıcılarında Uyarılmış Nötrinonun Tek Üretimi**  
KIRCA Z.  
TFD-22 Türk Fizik Derneği 22. Fizik Kongresi, 14 - 17 September 2004
- XVII. **Single Production of Excited Neutrino at Electron Gamma Colliders**  
KIRCA Z.  
BPU-5:Fifth General Conference of the Balkan Physical Union, 25 - 29 August 2003
- XVIII. **Uyarılmış Elektronların Elektron Foton Çarpıştırıcılarında İncelenmesi**  
ÇAKIR O., KIRCA Z.  
TFD-21 Türk Fizik Derneği 21. Fizik Kongresi, Turkey, 11 - 14 September 2002
- XIX. **Excited Leptons in Electron Gamma Collisions**  
KIRCA Z.  
Weak and Strong Interactions Phenomenology The 6th Constantine High Energy Physics School, 6 - 12 April 2002

## Metrics

Publication: 24  
Citation (WoS): 6  
Citation (Scopus): 9  
H-Index (WoS): 2  
H-Index (Scopus): 2

## Non Academic Experience

Uludağ Üniversitesi  
Uludağ Üniversitesi  
Eskişehir Osmangazi Üniversitesi