

LEVENT SELBUZ

ASSOC. PROF.

Office Phone : [+90 312 203 3426](tel:+903122033426)

Fax Phone : [+90 312 212 7343](tel:+903122127343)

International Researcher IDs

ScholarID: 9h22gqYAAAAJ

ORCID: 0000-0001-8128-521X

Publons / Web Of Science ResearcherID: J-9021-2012

ScopusID: 15766259800

Yoksis Researcher ID: 21289

Learning Knowledge

Doctorate 2003 - 2008	Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey
Postgraduate 2000 - 2003	Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Turkey
Undergraduate 1996 - 2000	Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey

Dissertations

Doctorate, İki higgs dubletli modellerde ve minimal süpersimetrik standart modelde CP-bozulumu, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2008

Postgraduate, STANDART ve SÜPERSİMETRİK MODELLERDE CP- BOZULUMU, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), 2003

Academic Titles / Tasks

Associate Professor 2016 - Continues	Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü
Assistant Professor 2014 - 2016	Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü
Research Assistant 2001 - 2014	Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü

Scholarships

Öğretim Üyesi ve Araştırmacı Yetiştirilmesi Amacıyla Yurtdışına Gönderilecek Öğretim Elemanlarına Sağlanacak Destek,

YOK, 2012 - 2013

2218-Yurt İçi Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2009 - 2010

2214-Yurt Dışı Araştırma Burs Programı, TÜBİTAK, 2007 - 2007

Norveç Hükümeti Bursu, Ministry of Education, 2005 - 2005

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Monophoton events with light Higgs bosons in the secluded UMSSM**
Hıcılmaz Y., SELBUZ L., ÜN C. S.
PHYSICAL REVIEW D, vol.108, no.7, 2023 (SCI-Expanded)
2. **Constraining nonminimal dark sector scenarios with the COHERENT neutrino scattering data**
Elpe A., Akyumuk E., Aliyev T., Selbuz L., Turan İ.
PHYSICAL REVIEW D, vol.107, no.7, 2023 (SCI-Expanded)
3. **Model characterization and dark matter in the secluded $U(1)'$ model**
Hıcılmaz Y., Selbuz L., Solmaz L., Ün C. S.
PHYSICAL REVIEW D, vol.105, no.5, 2022 (SCI-Expanded)
4. **Heavy Z' bosons in the secluded $U(1)'$ model at hadron colliders**
Frank M., SELBUZ L., TURAN İ.
European Physical Journal C, vol.81, no.5, 2021 (SCI-Expanded)
5. **Charged Higgs boson in MSSM and beyond**
Hıcılmaz Y., SELBUZ L., SOLMAZ L., ÜN C. S.
PHYSICAL REVIEW D, vol.97, no.11, 2018 (SCI-Expanded)
6. **Neutralino and chargino production in $U(1)'$ at the LHC**
Frank M., SELBUZ L., TURAN İ.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)
7. **Sterile neutrinos in $U(1)'$ with R-parity violation**
Frank M., SELBUZ L.
PHYSICAL REVIEW D, vol.88, no.5, 2013 (SCI-Expanded)
8. **Higgs bosons in supersymmetric $U(1)'$ models with CP violation**
Frank M., SELBUZ L., SOLMAZ L., TURAN İ.
PHYSICAL REVIEW D, vol.87, no.7, 2013 (SCI-Expanded)
9. **Scalar neutrinos at the LHC**
Demir D. A., Frank M., SELBUZ L., TURAN İ.
PHYSICAL REVIEW D, vol.83, no.9, 2011 (SCI-Expanded)
10. **Sneutrino dark matter: Symmetry protection and cosmic ray anomalies**
Demir D. A., Everett L. L., Frank M., SELBUZ L., TURAN İ.
PHYSICAL REVIEW D, vol.81, no.3, 2010 (SCI-Expanded)
11. **Tau sleptons and tau sneutrino decays in MSSM under the cosmological bounds**
SELBUZ L., Aydın Z. Z.
Turkish Journal of Physics, vol.33, no.6, pp.351-362, 2009 (SCI-Expanded)
12. **Trilinear Higgs couplings in the two Higgs doublet model with CP violation**
Osland P., Pandita P. N., SELBUZ L.
PHYSICAL REVIEW D, vol.78, no.1, 2008 (SCI-Expanded)
13. **Squark decays in MSSM under the cosmological bounds**
Aydın Z. Z., SELBUZ L.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.34, no.12, pp.2553-2565, 2007 (SCI-Expanded)
14. **Top and bottom squarks decays under cosmological bounds**
SELBUZ L., Aydın Z. Z.
PHYSICS LETTERS B, vol.645, no.2-3, pp.228-234, 2007 (SCI-Expanded)

Articles Published in Other Journals

1. **Higgs, chargino and neutralino mass spectra in RPV $U(1)'$ model**
Selbuz L., Frank M., Turan İ.
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, vol.40, no.6, 2017 (ESCI)

Books & Book Chapters

1. **Entropi**
EMRE Ş. B., SELBUZ L.
in: Fizik İlkeler ve Pratik, Abdullah Verçin, Ali Ulvi Yilmazer, Editor, Nobel, Ankara, pp.501-528, 2015

Refereed Congress / Symposium Publications in Proceedings

1. **New neutral gauge bosons in supersymmetric $U(1)'$ models at hadron colliders**
Frank M., SELBUZ L., TURAN İ.
EPS-HEP2021 conference, Hamburg, Germany, 26 - 30 July 2021
2. **The next Higgs bosons in E6 inspired supersymmetric models with CP violation**
SELBUZ L.
40th International Conference on High Energy Physics, ICHEP 2020, Virtual, Prague, Czech Republic, 28 July - 06 August 2020, vol.390
3. **CP Bozulumlu $U(1)'$ Modellerde Yüklü Higgs Bozonları**
SELBUZ L.
ADIM FİZİK GÜNLERİ VI, Turkey, 19 - 21 July 2017

Courses

Introduction to High Energy Physics I, Undergraduate, 2023 - 2024
Introduction to High Energy Physics II, Undergraduate, 2023 - 2024, 2022 - 2023
Fizik II , Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Yüksek Enerji Fiziğine Giriş I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2016 - 2017, 2015 - 2016
Research Project, Undergraduate, 2023 - 2024, 2022 - 2023
Fizik II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019
Fizik I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019
Fizikte Güncel Konular, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Relativistik Kuantum Mekaniği, Doctorate, 2021 - 2022, 2018 - 2019, 2014 - 2015
Parçacık Fiziği, Doctorate, 2020 - 2021, 2019 - 2020, 2017 - 2018
Fizik Mühendisliğinde Araştırma Teknikleri II, Undergraduate, 2020 - 2021
Parçacık Fiziğine Giriş, Postgraduate, 2021 - 2022, 2019 - 2020, 2017 - 2018
Yüksek Enerji Fiziğine Giriş I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015, 2013 - 2014, 2011 - 2012
Fizik II, Undergraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Fizik Mühendisliğinde Araştırma Teknikleri I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Standart Model ve Ötesi, Postgraduate, 2018 - 2019
Fizik Mühendisliğinde Araştırma Teknikleri II, Undergraduate, 2017 - 2018
Fizik I, Undergraduate, 2017 - 2018, 2016 - 2017

Parçacık Fiziği I, Postgraduate, 2016 - 2017, 2015 - 2016
FİZİK II, Undergraduate, 2014 - 2015
Yüksek Enerji Fiziğine Giriş II, Undergraduate, 2013 - 2014
Fizik I, Undergraduate, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2010 - 2011

Advising Theses

Selbuz L., Turan İ., Probing signs of new physics at low energies: The neutrino case, Doctorate, A.ELPE(Student), 2023
Selbuz L., Solmaz L., U(1)' Model'de B Bozunumları, Doctorate, A.ALTAŞ(Student), 2021
SELBUZ L., Neutralino, chargino and Higgs bosons in the supersymmetric U(1)' model, Postgraduate, A.SERDAR(Student), 2021

Metrics

Publication: 19
Citation (WoS): 111
Citation (Scopus): 125
H-Index (WoS): 7
H-Index (Scopus): 7

Congress and Symposium Activities

The European Physical Society Conference on High Energy Physics 2021-(EPS-HEP2021), Attendee, Hamburg, Germany, 2021
40th International Conference on High Energy physics - ICHEP2020, Attendee, Praha, Czech Republic, 2020
37th International Symposium on Physics in Collision, Attendee, Praha, Czech Republic, 2017
ADIM FİZİK GÜNLERİ VI, Session Moderator, Balıkesir, Turkey, 2017
PASCOS 2015, Audience, Trieste, Italy, 2015
PASCOS 2014 , Attendee, Warszawa, Poland, 2014
SCALARS 2013, Attendee, Warszawa, Poland, 2013
Canadian Association of Physicists Congress , Working Group, Montreal, Canada, 2013
İZYEF 2012, Audience, İzmir, Turkey, 2012
Ankara YEF Günleri 2011 Çalıştayı, Audience, Ankara, Turkey, 2011
COSMO11 Conference, Attendee, Porto, Portugal, 2011
International Summer School and Conference on High Energy Physics: Standard Model and Beyond, Audience, Muğla, Turkey, 2009
International Summer School and Conference on High Energy Physics: Standard Model and Beyond, Audience, Muğla, Turkey, 2006

Research Areas

Physics, High Energy Physics