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Personal Information

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 1999 - 2005

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), Turkey 1996 - 1999

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kütleli nötrino fiziği, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2005

Postgraduate, Standart modelde Higgs sektörü ve Higgs'xxin bozunumları, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), 1999

Research Areas

Physics, High Energy Physics, Physics

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2010 - Continues

Research Assistant, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1997 - 2010

Courses

Kuantum Mekaniği I , Undergraduate, 2016 - 2017

Physics I , Undergraduate, 2016 - 2017

Physics I, II , Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012

Kuantum Mekaniği I, II, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Advising Theses

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An Attempt to Predict the Effective Angle of Internal Friction for Remolded Clayey Soils Using the Vane Shear Test: Some Important Implications**
KAYABALI K., Yilmaz N. P., Balci M. C., YILMAZ D.
Arabian Journal for Science and Engineering, vol.49, no.4, pp.5639-5651, 2024 (SCI-Expanded)
- II. **Higgs production at next generation e+e-colliders**
YILMAZ D., Sahin M., Yavuz D. H.
Modern Physics Letters A, vol.38, no.20-21, 2023 (SCI-Expanded)
- III. **The SHiP experiment at the proposed CERN SPS Beam Dump Facility**
Ahdida C., Akmete A., Albanese R., Alt J., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.5, 2022 (SCI-Expanded)
- IV. **Sensitivity of the SHiP experiment to dark photons decaying to a pair of charged particles**
Ahdida C., Akmete A., Albanese R., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Back J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.5, 2021 (SCI-Expanded)
- V. **Sensitivity of the SHiP experiment to light dark matter**
Ahdida C., Akmete A., Albanese R., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Back J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.4, 2021 (SCI-Expanded)
- VI. **Measurement of the muon flux from 400 GeV/c protons interacting in a thick molybdenum/tungsten target**
Ahdida C., Akmete A., Albanese R., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Back J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.3, 2020 (SCI-Expanded)
- VII. **Photoproduction of mixed radions at a proton-proton collider**
Sahin İ., Spor S., Yilmaz D., SELÇİN G. A.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.47, no.3, 2020 (SCI-Expanded)
- VIII. **Fast simulation of muons produced at the SHiP experiment using Generative Adversarial Networks**
Ahdida C., Albanese R. M., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Back J., Bagulya A., et al.
JOURNAL OF INSTRUMENTATION, vol.14, 2019 (SCI-Expanded)
- IX. **Sensitivity of the SHiP experiment to Heavy Neutral Leptons**
Ahdida C., Albanese R., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Baaltasar Dos Santos F., Back J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2019 (SCI-Expanded)
- X. **The experimental facility for the Search for Hidden Particles at the CERN SPS**
Ahdida C., Albanese R., Alexandrov A., Anokhina A., Aoki S., Arduini G., Atkin E., Azorskiy N., Back J., Bagulya A., et al.
JOURNAL OF INSTRUMENTATION, vol.14, 2019 (SCI-Expanded)
- XI. **The active muon shield in the SHiP experiment**
Akmete A., Alexandrov A., Anokhina A., Aoki S., Atkin E., Azorskiy N., Back J., Bagulya A., Baranov A., Barker G., et al.
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- XII. **Combined Effect of NSI and SFP on Solar Electron Neutrino Oscillation**
YILMAZ D.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2016, 2016 (SCI-Expanded)
- XIII. **Perturbative approach to the spin-flavor precession of Majorana-type solar neutrinos**
YILMAZ D.
Turkish Journal of Physics, vol.38, no.2, pp.187-192, 2014 (SCI-Expanded)
- XIV. **Combined analysis of solar neutrino data within the RSFP framework together with new KamLAND data**
YILMAZ D.

Turkish Journal of Physics, vol.33, no.2, pp.63-68, 2009 (SCI-Expanded)

XV. **Contrasting solar and reactor neutrinos with a non-zero value of θ_{13}**

Balantekin A., Yilmaz D.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.35, no.7, 2008 (SCI-Expanded)

XVI. **Global analysis of solar neutrinos (assumed to be Majorana particles) together with the new KamLAND data in the RSFP framework**

Yilmaz D., Yilmazer A.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.31, no.9, pp.1123-1131, 2005 (SCI-Expanded)

XVII. **Global analysis of the data from solar neutrinos having transition magnetic moments together with KamLAND data**

Yilmaz D., Yilmazer A.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.31, no.1, pp.57-69, 2005 (SCI-Expanded)

Articles Published in Other Journals

I. **An analytic solution to the spin flavor precession for solar Majorana neutrinos in the case of three neutrino generations**

YILMAZ D.

TURKISH JOURNAL OF PHYSICS, vol.42, no.5, pp.600-612, 2018 (ESCI)

II. **A Facility to Search for Hidden Particles SHiP at the CERN SPS**

Anelli G. M., Aoki S., Arduini G., Back J. J., Bagulya A., Baldini W., Baranov A., Barker G. J., Bayliss V., Barsuk S. e. a., et al.

CERN Scientific Committee Paper, 2015 (Non Peer-Reviewed Journal)

III. **SFP effect on Majorana type solar neutrinos in the presence of nonstandard neutrino interactions**

YILMAZ D.

TURKISH JOURNAL OF PHYSICS, vol.39, no.3, pp.309-313, 2015 (ESCI)

IV. **Upper Bound on θ_{13} from Combined Analysis of Solar Neutrino Data Together with Reactor Data**

YILMAZ D.

Karaelmas Science and Engineering Journal, vol.3, no.2, pp.8-10, 2013 (Peer-Reviewed Journal)

V. **Expression of Interest for a very long baseline neutrino oscillation experiment LBNO**

Stahl A., Wiebusch C. H., GÜLER A. M., Mustafa K., SEVER R., YILMAZER A. U., Güneş Ç., YILMAZ D., Sanchez P. d. A., Duchesneau D. e. a.

CERN Scientific Committee Paper, 2012 (Non Peer-Reviewed Journal)

VI. **Güneş Nötrinolarının Salınımında Çeşni Evrenselliğini Bozan Nötrino Etkileşmelerinin İncelenmesi**

ŞAHİN İ., ŞAHİN B., YILMAZ D.

Cumhuriyet Üniversitesi Fen Bilimleri Dergisi, vol.29, no.2, pp.26-36, 2008 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Combined effect of NSI and SFP on Dirac type solar electron neutrinos**

YILMAZ D.

7th Annual International Conference on Physics, 22 - 25 July 2019

II. **Perturbative Approximation To The Spin Flavor Precession For Solar Majorana Neutrinos In The Case Of Three Neutrino Generations**

YILMAZ D.

Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, 5 - 09 September 2018

Metrics

Publication: 25

Citation (WoS): 224

Citation (Scopus): 312

H-Index (WoS): 8

H-Index (Scopus): 8