

Asst. Prof. TARIK AKAN

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ankara University, Turkey 2015 - 2023

Postgraduate, Rheinische Friedrich-Wilhelms-Universitaet Bonn, Germany 2011 - 2013

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Işık konisi KRD toplam kuralları kullanılarak Bc mezonlarının P-dalga çarmonyum durumlarına yarıleptonik bozunumunun incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, 2023

Postgraduate, Electric dipole moments of baryons in the finite volume, Rheinische Friedrich-Wilhelms-Universitaet Bonn, 2013

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Basic Particles and Areas, General Theory of Particles and Fields, Properties of special particles, Special reactions and phenomenology, Special theories and interaction models, particle systematics

Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Faculty of Arts and Sciences, Fizik, 2023 - Continues

Research Assistant PhD, Yozgat Bozok University, Faculty of Arts and Sciences, Fizik, 2023 - 2023

Research Assistant, Yozgat Bozok University, Faculty of Arts and Sciences, Fizik, 2014 - 2023

Courses

Fizikte Yeni Gelişmeler, Undergraduate, 2023 - 2024
Fizik II, Undergraduate, 2023 - 2024
Fizik I, Undergraduate, 2024 - 2025
Temel Bilimlerden Makine Öğrenmesi, Undergraduate, 2024 - 2025
Parçacık Fiziği, Postgraduate, 2024 - 2025
Fizik II, Undergraduate, 2023 - 2024
Bilim Tarihi I, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Exploring machine learning models for predicting meson mass and width**
Akan T.
Physica Scripta, vol.99, no.12, 2024 (SCI-Expanded)
- II. **borelT.m: Borel Transformations in QCD Sum Rules with Mathematica**
Akan T.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.63, pp.1-10, 2024 (SCI-Expanded)
- III. **Semileptonic Bc decays to P-wave charmonia in the light-cone QCDSR**
AKAN T., Cincioglu E., ÖZPİNECİ A., TEĞMEN A.
Nuclear Physics A, vol.1034, 2023 (SCI-Expanded)
- IV. **Finite-volume corrections to the CP-odd nucleon matrix elements of the electromagnetic current from the QCD vacuum angle**
AKAN T., Guo F., Meissner U.
PHYSICS LETTERS B, vol.736, pp.163-168, 2014 (SCI-Expanded)

Supported Projects

Duran D., Sfondrini A., AKAN T., TÜBİTAK - AB COST Project, Fundamental challenges in theoretical physics (THEORY-CHALLENGES), 2023 - 2027
Akan T., İldeş C., Project Supported by Higher Education Institutions, Tavlama Sıcaklığının N-tipi Pencere Tabaka Üzerindeki Etkilerinin Makine Öğrenmesi İle İncelenmesi, 2025 - 2026
Akan T., Yalvaç M., Project Supported by Higher Education Institutions, Baryon Kütle ve Genişliklerinin Makine Öğrenimi Modelleri ile Tahmini, 2024 - 2025
Şahingöz R., Aksu P., Akan T., Project Supported by Higher Education Institutions, Metalik Cam Özelliklerinin Makine Öğrenmesi (Machine Learning) ile İncelenmesi, 2024 - 2025
AKAN T., Project Supported by Higher Education Institutions, Mathematica Paketleri ile Yapılan Parçacık Fiziği Sembolik Hesaplamalarında Borel Dönüşümü, 2024 - 2024
Özpineci A., TUBITAK Project, Egzotic Mezonlardaki Kuarkonyum Bileşeninin B Bozunumları Aracılığıyla İncelenmesi, 2018 - 2020

Metrics

Publication: 4
Citation (WoS): 13
Citation (Scopus): 15
H-Index (WoS): 1
H-Index (Scopus): 1

Congress and Symposium Activities

PHYSTAT Workshop on "Statistics meets ML" in Particle Physics & Astrophysics, Audience, London, England, 2024

Frontiers of QCD , Audience, Tbilisi, Georgia, 2019

GGI lectures on the theory of fundamental interactions, Audience, Florence, Italy, 2018

5th International School and Workshop of Regional Training Network in Theoretical Physics , Audience, Tbilisi, Georgia, 2017

Scholarships

YLSY, Ministry of Education, 2009 - 2014