

## Asst. Prof. TARIK AKAN

### Personal Information

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### International Researcher IDs

ScholarID: sGEbWGAAAAAJ

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ScopusID: 56293983200

Yoksis Researcher ID: 123252

### 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

Basic Particles and Areas, General Theory of Particles and Fields, Properties of special particles, Special theories and interaction models, particle systematics

### Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Fizik, 2023 - Continues

Research Assistant PhD, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Fizik, 2023 - 2023

Research Assistant, Yozgat Bozok University, Fen-Edebiyat Fakültesi, 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

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., TÜBİTAK Project, Egzotic Mezonlardaki Kuarkonyum Bileşeninin B Bozunumları Aracılığıyla İncelenmesi, 2018 - 2020

## Metrics

Publication: 4  
Citation (WoS): 13  
Citation (Scopus): 13  
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