

## Res. Asst. EBRU USLAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ACZ-1264-2022

Yoksis Researcher ID: 342393

### Biography

Ebru Usan Zorbakır Çukurova Üniversitesi Fizik Bölümü Yüksek Enerji Fiziği Anabilim Dalı'nda doktora eğitimini sürdürmektedir. Çalışmalarını Avrupa Nükleer Araştırma Merkezi'ndeki CMS Detektörü'nde yürütmektedir.

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2019 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2016 - 2019

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 2013 - 2016

Undergraduate, Ege University, Faculty Of Science, Fizik Bölümü, Turkey 2011 - 2013

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Other, 1st COMETA General Meeting, European Cooperation in Science and Technology, 2024

Data Analysis, PyHEP 2022 workshops, European Organization for Nuclear Research, 2022

Other, 17th Hadron Collider Physics Summer School, FERMILAB-CERN, 2022

Data Analysis, CMS Data Analysis School 2021, European Organization for Nuclear Research, 2021

Data Analysis, PREFIT20: PRecision Effective Field Theory School, COST - European Cooperation in Science and Technology, 2020

Education Management and Planning, Pedagojik Formasyon, Cukurova University, 2017

Other, 10th International Conference on Luminescence and ESR Dosimetry, Cukurova University, 2016

Other, Hakkı Ögelman Temel Bilimciler için Astronomi Yaz Okulu, Turkish Astronomical Society and Cukurova University, 2015

### Dissertations

Postgraduate, Determination of the charged hadron fractions for different jet triggers in CMS experiment, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2019

## Research Areas

Physics, High Energy Physics, Physics, Natural Sciences

## Academic Titles / Tasks

Research Assistant, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2021 - Continues

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

- I. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)
- II. **Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at sNN=5.02TeV**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- III. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at s=13TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- IV. **Search for Scalar Leptoquarks Produced via  $\tau$ -Lepton-Quark Scattering in pp Collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Physical review letters, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)
- V. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)
- VI. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)
- VII. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
Physical review letters, vol.132, no.2, pp.21803, 2024 (SCI-Expanded)
- VIII. **Luminosity determination using Z boson production at the CMS experiment**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.  
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- IX. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at  $\sqrt{s}=13$ TeV**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.

European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)

X. **The very forward CASTOR calorimeter of the CMS experiment**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Fruehwirth R., et al.

JOURNAL OF INSTRUMENTATION, vol.16, no.2, 2021 (SCI-Expanded)

XI. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)

XII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.5, 2020 (SCI-Expanded)

## Metrics

Publication: 12

Citation (WoS): 6

Citation (Scopus): 9

H-Index (WoS): 2

H-Index (Scopus): 2