

# Prof. Taylan YETKİN

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2001 - 2006

Postgraduate, Mersin University, Institute Of Science, Turkey 1999 - 2001

Undergraduate, Mersin University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1994 - 1998

## Research Areas

Physics, Nuclear physics, Experimental Methods of Particle and Nuclear Physics, Basic Particles and Areas, Special theories and interaction models, particle systematics, Natural Sciences

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2022 - Continues

## Advising Theses

YETKİN T., Study and Improvement of Properties of Electrical Iron for Current Transformers, Postgraduate, A.Abdullah(Student), 2016

YETKİN T., Slikon Fotoçoğaltıcılarda Kozmik Muonların Yaşam Süresi Ölçümü, Postgraduate, F.Ilgın(Student), 2016

YETKİN T., Örgü Kuantum Renk Dinamiğinde Mezon Kütleleri Hesapları, Postgraduate, H.Bahtiyar(Student), 2016

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

### I. Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root $s(NN)=5.02$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.

PHYSICAL REVIEW LETTERS, vol.120, no.14, 2018 (SCI-Expanded)

### II. Search for vectorlike light-flavor quark partners in proton-proton collisions at root $s=8$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.

PHYSICAL REVIEW D, vol.97, no.7, 2018 (SCI-Expanded)

### III. Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at root $s=8$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J.,

Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2018, no.3, 2018 (SCI-Expanded)

- IV. **Simulation of secondary emission calorimeter for future colliders**  
Yetkin E. A., YETKİN T., Ozok F., Iren E., Erduran M. N.  
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- V. **Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at  $\sqrt{s}=7\text{TeV}$**   
Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., Flechl M., et al.  
European Physical Journal C, vol.78, no.3, 2018 (SCI-Expanded)
- VI. **Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at  $\sqrt{s_{NN}}=5.02\text{ TeV}$**   
Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., Flechl M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.776, pp.195-216, 2018 (SCI-Expanded)
- VII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**  
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.  
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- VIII. **CMS Collaboration**  
Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., Flechl M., et al.  
Nuclear Physics A, vol.967, pp.965-982, 2017 (SCI-Expanded)
- IX. **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at  $\sqrt{s}=8\text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
PHYSICAL REVIEW D, vol.96, no.7, 2017 (SCI-Expanded)
- X. **Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at  $\sqrt{s}=8\text{ TeV}$**   
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, vol.773, pp.563-584, 2017 (SCI-Expanded)
- XI. **Geant4 simulation of a conceptual calorimeter based on secondary electron emission**  
Ozok F., Yetkin T., Yetkin E. A., Iren E., Erduran M. N.  
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- XII. **Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at  $\sqrt{s_{NN}}=2.76\text{ TeV}$**   
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW C, vol.89, no.4, 2014 (SCI-Expanded)
- XIII. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**  
YETKİN T.  
Phys. Lett. B 716 (2012) 30-61, vol.716, no.1, pp.30-61, 2012 (SCI-Expanded)
- XIV. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at  $\sqrt{s}=7\text{ TeV}$**   
YETKİN T.  
Phys. Rev. D 86 (2012) 052013, vol.86, no.5, 2012 (SCI-Expanded)
- XV. **Measurement of the underlying event activity in pp collisions at  $\sqrt{s} = 0.9$  and 7 TeV with the novel jet-area/median approach**

YETKİN T.

J. High Energy Phys. 08 (2012) 130, vol.8, no.130, pp.1-33, 2012 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Simulation results for novel gamma probe based on silicon photomultipliers**  
YETKİN T., İren E., Özok F., Erduran M. N.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 May 2017, pp.216
- II. **Simulation of secondary emission calorimeter for future colliders**  
YETKİN T., Yetkin E. A., İren E., Özok F., Erduran M. N.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 May 2017, pp.215
- III. **SiPM readout tests for decay spectroscopy detectors**  
YETKİN T., İren E., Özok F., Erduran M. N., Yetkin E. A.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 May 2017, pp.217
- IV. **Nedir Bu Ekstra Boyutlar ve Nasıl Gözlemleriz?**  
YETKİN T.  
İzmir Yüksek Enerji Fiziği ve Uygulamaları Çalıştayı, 01 July 2012

## Supported Projects

Yetkin T., TUBITAK Project, 511 keV Enerjili Gamaların İnorganik Kristal İçindeki Etkileşim Derinliğinin Fiber ve Silikon Foto-Çoğaltıcılar Kullanılarak Belirlenmesi, 2019 - 2023

Yetkin T., Bozkurt K., Durusoy A., Akçalı Ö., Erduran M. N., Özok F., Zengin A. T., Akbeniz Ş., TUBITAK Project, Gama Kamerası Modernizasyonu İçin Yöntem Geliştirilmesi ve Deneysel Uygulaması, 2017 - 2019

YETKİN T., ÖZOK F., ERDURAN M. N., ERDURAN M. N., Project Supported by Higher Education Institutions, Silikon Foto-çoğaltıcı Kazancının Mikro Kontrol Edicilerle Dengele Tutulması, 2015 - 2018

Yetkin T., Özok F., TUBITAK Project, İkincil Emisyon Elektronlarına Dayalı Kompakt Kalorimetre Tasarımı Yapımı Ve İşletimi, 2014 - 2017

## Metrics

Publication: 19

Citation (WoS): 166

Citation (Scopus): 296

H-Index (WoS): 5

H-Index (Scopus): 7