

ÜMİT KAYA

ASST. PROF.

Email : kayaamt@ankara.edu.tr

Office Phone : [+90 312 485 3745](tel:+903124853745) Extension: 4015

International Researcher IDs

ScholarID: --lka6AAAAAJ

ORCID: 0000-0003-0823-3848

Publons / Web Of Science ResearcherID: AFT-2403-2022

ScopusID: 56861996500

Yoksis Researcher ID: 332334

Learning Knowledge

Post Doctorate
2021 - 2022

Istinye University, Fen Bilimleri Enstitüsü, Turkey

Post Doctorate
2019 - 2021

Bogazici University, Fen Fakültesi, Fizik, Turkey

Doctorate
2014 - 2019

Ankara University, Fen Bilimleri Enstitüsü, Turkey

Postgraduate
2009 - 2012

Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey

Undergraduate
2003 - 2008

Selcuk University, Eğitim Fakültesi, Fizik Öğretmenliği, Turkey

Academic Titles / Tasks

Assistant Professor
2023 - Continues

Ankara University, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri
Anabilim Dalı

Published journal articles indexed by SCI, SSCI, and AHCI

- An irradiation system for nuclear and materials research in a medical cyclotron**
Bulut S., Türemen G., Yeltepe E., Porsuk D., Serin N., KAYA Ü.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, vol.1058, 2024 (SCI-Expanded)
- Luminosity and physics considerations on HL-LHC- and HE-LHC-based $\mu\mu$ colliders**
Kaya Ü., KETENOĞLU B., Sultansoy S., Zimmermann F.
EPL, vol.138, no.2, 2022 (SCI-Expanded)
- The Large Hadron-Electron Collider at the HL-LHC**
Agostini P., Aksakal H., Alekhin S., Allport P. P., Andari N., Andre K. D. J., Angal-Kalinin D., Antusch S., Aperio Bella L.,

Apolinario L., et al.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.48, no.11, 2021 (SCI-Expanded)

4. **CutLang as an analysis description language for introducing students to analyses in particle physics**
Adiguzel A., Cakir O., Kaya Ü., Ozcan V. E., Ozturk S., Sekmen S., ÇAKIR İ. T., Unel G.
EUROPEAN JOURNAL OF PHYSICS, vol.42, no.3, 2021 (SCI-Expanded)
5. **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.1109-1382, 2019 (SCI-Expanded)
6. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (SCI-Expanded)
7. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (SCI-Expanded)
8. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.6, 2019 (SCI-Expanded)
9. **Resonant production of color octet muons at Future Circular Collider-based muon-proton colliders**
Acar Y. C., Kaya Ü., Oner B. B.
CHINESE PHYSICS C, vol.42, no.8, 2018 (SCI-Expanded)
10. **Future circular collider based lepton-hadron and photon-hadron colliders: Luminosity and physics**
Acar Y. C., Akay A. N., Beser S., Canbay A. C., Karadeniz H., Kaya Ü., Oner B. B., Sultansoy S.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.871, pp.47-53, 2017 (SCI-Expanded)
11. **Color octet electron search potential of FCC based e-p colliders**
Acar Y. C., Kaya Ü., Oner B. B., Sultansoy S.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.44, no.4, 2017 (SCI-Expanded)
12. **SppC Based Energy Frontier Lepton-Proton Colliders: Luminosity and Physics**
Canbay A. C., Kaya Ü., KETENOĞLU B., Oner B. B., Sultansoy S.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2017, 2017 (SCI-Expanded)
13. **New IceCube data and color octet neutrino interpretation of the PeV energy events**
Akay A. N., Cakir O., Gunaydin Y. O., Kaya Ü., Sahin M., Sultansoy S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.30, no.26, 2015 (SCI-Expanded)

Articles Published in Other Journals

1. **A minimal fermion-scalar preonic model**
KAYA Ü., Oner B. B., Sultansoy S.
TURKISH JOURNAL OF PHYSICS, vol.42, no.3, pp.235-241, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

1. **Search for the Chiral Fourth Family Up Type Quark at The LHC and FCC**
CANBAY A. C., SULTANOV S., Kaya Ü.

TFD 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017

Scientific Refereeing

Turkish Journal of Nuclear Sciences, National Scientific Refreed Journal, November 2023

Metrics

Publication: 15

Citation (WoS): 1610

Citation (Scopus): 2010

H-Index (WoS): 7

H-Index (Scopus): 7

Research Areas

Physics, High Energy Physics

Non Academic Experience

TENMAK-NÜKEN

İstinye Üniversitesi

Boğaziçi Üniversitesi