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Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2006 - 2012

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 2003 - 2006

Lisans, Dokuz Eylül Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1998 - 2003

Yaptığı Tezler

Doktora, Büyük hadron çarpıştırıcısında üçüncü aile sfermyonlarının üretimi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2012

Yüksek Lisans, Üst kuarkın FCNC üretimi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2005

Verdiği Dersler

Fizik II - FIZ108, Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

SAYISAL HESAPLAMA YÖNTEMLERİ VE SAĞLIK FİZİĞİ UYGULAMALARI, Yüksek Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017

Fizik I - FIZ 107, Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Yönetilen Tezler

KUDAY S., Beyin tümörü radyoterapisinde saha dışı dozların gate simülasyonları yoluyla yüksek kesinlikli ölçümü, Yüksek Lisans, M.SÖNMEZ(Öğrenci), 2021

KUDAY S., MR Distorsiyonunun SRS planlarına etkisi, Yüksek Lisans, D.SENA(Öğrenci), 2020

KUDAY S., Medikal görüntüleme gate simülasyonları yoluyla dual-izotop uygulamaları ve enerji çözünürlüğü araştırmaları, Yüksek Lisans, Y.ŞENGELEN(Öğrenci), 2020

KUDAY S., Hızlandırıcı tabanlı radyoizotop üretimi ve potansiyelinin simülasyonlar yoluyla araştırılması, Yüksek Lisans, Ş.AKÇAY(Öğrenci), 2020

KUDAY S., Onkolojik görüntüleme gate yazılımı yoluyla SPECT/BT simülasyonlarının dinamik kaynaklar üzerine uygulanması, Yüksek Lisans, B.AYNACI(Öğrenci), 2018

KUDAY S., Prostat IMRT'de "Sliding Window" ve "Step and Shoot" tekniklerinin karşılaştırılması, Yüksek Lisans, İ.SAĞLAM(Öğrenci), 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Measurement of top-quark pair production in association with charm quarks in proton-proton collisions at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.860, 2025 (SCI-Expanded)
- II. **Combination of searches for singly and doubly charged Higgs bosons produced via vector-boson fusion in proton-proton collisions at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.860, 2025 (SCI-Expanded)
- III. **Disentangling Sources of Momentum Fluctuations in (Formula presented) and (Formula presented) Collisions with the ATLAS Detector**
Filmer E., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review Letters, cilt.133, sa.25, 2024 (SCI-Expanded)
- IV. **Search for heavy right-handed Majorana neutrinos in the decay of top quarks produced in proton-proton collisions at (Formula Presented) with the ATLAS detector**
Filmer E., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review D, cilt.110, sa.11, 2024 (SCI-Expanded)
- V. **Measurements of Lund subjet multiplicities in 13 TeV proton-proton collisions with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.859, 2024 (SCI-Expanded)
- VI. **Jet radius dependence of dijet momentum balance and suppression in Formula Presented collisions at 5.02 TeV with the ATLAS detector**
Filmer E., Gallagher J., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., et al.
Physical Review C, cilt.110, sa.5, 2024 (SCI-Expanded)
- VII. **Search for Formula Presented-parity violating supersymmetric decays of the top squark to a Formula Presented-jet and a lepton in Formula Presented Formula Presented collisions with the ATLAS detector**
Filmer E., Gallagher J., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., et al.
Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- VIII. **Search for pair production of boosted Higgs bosons via vector-boson fusion in the bb^*bb^* final state using pp collisions at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.858, 2024 (SCI-Expanded)
- IX. **Search for a resonance decaying into a scalar particle and a Higgs boson in the final state with two bottom quarks and two photons in proton-proton collisions at $s = 13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, cilt.2024, sa.11, 2024 (SCI-Expanded)
- X. **Interpretations of the ATLAS measurements of Higgs boson production and decay rates and differential cross-sections in pp collisions at $s = 13$ TeV**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Journal of High Energy Physics, cilt.2024, sa.11, 2024 (SCI-Expanded)
- XI. **Search for neutral long-lived particles that decay into displaced jets in the ATLAS calorimeter in association with leptons or jets using pp collisions at $s = 13$ TeV**

Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.

Journal of High Energy Physics, cilt.2024, sa.11, 2024 (SCI-Expanded)

- XII. **Search for the Exclusive Formula Presented Boson Hadronic Decays Formula Presented, Formula Presented and Formula Presented with the ATLAS Detector**
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, cilt.133, sa.16, 2024 (SCI-Expanded)
- XIII. **Search for Light Long-Lived Particles in Formula Presented Collisions at Formula Presented Using Displaced Vertices in the ATLAS Inner Detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physical Review Letters, cilt.133, sa.16, 2024 (SCI-Expanded)
- XIV. **Combination and summary of ATLAS dark matter searches interpreted in a 2HDM with a pseudo-scalar mediator using 139 fb⁻¹ of s=13 TeV pp collision data**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
Science Bulletin, cilt.69, sa.19, ss.3005-3035, 2024 (SCI-Expanded)
- XV. **Determination of the Relative Sign of the Higgs Boson Couplings to W and Z Bosons Using WH Production via Vector-Boson Fusion with the ATLAS Detector**
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, cilt.133, sa.14, ss.141801, 2024 (SCI-Expanded)
- XVI. **Constraints on simplified dark matter models involving an s-channel mediator with the ATLAS detector in pp collisions at s=13 TeV**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
European Physical Journal C, cilt.84, sa.10, 2024 (SCI-Expanded)
- XVII. **Search for a resonance decaying into a scalar particle and a Higgs boson in final states with leptons and two photons in proton-proton collisions at s = 13 TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XVIII. **Measurements of inclusive and differential cross-sections of tt̄γ production in pp collisions at s = 13 TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XIX. **Precise test of lepton flavour universality in W-boson decays into muons and electrons in pp collisions at s=13TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
European Physical Journal C, cilt.84, sa.10, 2024 (SCI-Expanded)
- XX. **Measurements of jet cross-section ratios in 13 TeV proton-proton collisions with ATLAS**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review D, cilt.110, sa.7, 2024 (SCI-Expanded)
- XXI. **Search for a new Z' gauge boson via the pp → W± (*) → z'μ±ν → μ∓μ μ±ν process in pp collisions at vs =13 TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., et al.
Physical Review D, cilt.110, sa.7, 2024 (SCI-Expanded)

- XXII. **Measurement of single top-quark production in association with a Formula Presented boson in Formula Presented collisions at Formula Presented with the ATLAS detector**
Filmer E., Gallagher J., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., et al.
Physical Review D, cilt.110, sa.7, 2024 (SCI-Expanded)
- XXIII. **Fiducial and differential cross-section measurements of electroweak $W\gamma\gamma$ production in pp collisions at $s=13$ TeV with the ATLAS detector**
Zwalinski L., Zou W., Zormpa O., Zorbas T., Zoch K., Zoccoli A., Živković L., Ziolkowski M., Zinsser J., Zimine N., et al.
European Physical Journal C, cilt.84, sa.10, 2024 (SCI-Expanded)
- XXIV. **Precise measurements of W- and Z-boson transverse momentum spectra with the ATLAS detector using pp collisions at $s=5.02$ TeV and 13 TeV**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
European Physical Journal C, cilt.84, sa.10, 2024 (SCI-Expanded)
- XXV. **Sensor response and radiation damage effects for 3D pixels in the ATLAS IBL Detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Journal of Instrumentation, cilt.19, sa.10, 2024 (SCI-Expanded)
- XXVI. **Search for pair-produced higgsinos decaying via Higgs or Z bosons to final states containing a pair of photons and a pair of b-jets with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.856, 2024 (SCI-Expanded)
- XXVII. **Search for pair-produced vectorlike quarks coupling to light quarks in the lepton plus jets final state using 13 TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Physical Review D, cilt.110, sa.5, 2024 (SCI-Expanded)
- XXVIII. **Search for dark mesons decaying to top and bottom quarks in proton-proton collisions at $s = 13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Journal of High Energy Physics, cilt.2024, sa.9, 2024 (SCI-Expanded)
- XXIX. **Measurements of the production cross-section for a Z boson in association with b- or c-jets in proton-proton collisions at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
European Physical Journal C, cilt.84, sa.9, 2024 (SCI-Expanded)
- XXX. **Simultaneous energy and mass calibration of large-radius jets with the ATLAS detector using a deep neural network**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Machine Learning: Science and Technology, cilt.5, sa.3, 2024 (SCI-Expanded)
- XXXI. **Calibration of a soft secondary vertex tagger using proton-proton collisions at Formula Presented with the ATLAS detector**
Filmer E., Grant C., Green M., Jackson P., Kong A., Pandya H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review D, cilt.110, sa.3, 2024 (SCI-Expanded)
- XXXII. **Search for leptoquark pair production decaying into $te\text{-}t^+e^+$ or $t\mu\text{-}t^+\mu^+$ in multi-lepton final states in pp collisions at $s=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)

- XXXIII. **Accuracy versus precision in boosted top tagging with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Journal of Instrumentation, cilt.19, sa.8, 2024 (SCI-Expanded)
- XXXIV. **Differential cross-sections for events with missing transverse momentum and jets measured with the ATLAS detector in 13 TeV proton-proton collisions**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XXXV. **Statistical Combination of ATLAS Run 2 Searches for Charginos and Neutralinos 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, cilt.133, sa.3, 2024 (SCI-Expanded)
- XXXVI. **Measurement of t -channel single-top-quark production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.854, 2024 (SCI-Expanded)
- XXXVII. **Measurement of vector boson production cross sections and their ratios using pp collisions at $s=13.6$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.854, 2024 (SCI-Expanded)
- XXXVIII. **Search for pair-production of vector-like quarks in lepton+jets final states containing at least one b-tagged jet using the Run 2 data from the ATLAS experiment**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.854, 2024 (SCI-Expanded)
- XXXIX. **Search for light long-lived neutral particles from Higgs boson decays via vector-boson-fusion production from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Zwalinski L., Zou W., Zormpa O., Zorbas T., Zoch K., Zoccoli A., Živković L., Ziolkowski M., Zinsser J., Zimine N., et al.
European Physical Journal C, cilt.84, sa.7, 2024 (SCI-Expanded)
- XL. **Observation of electroweak production of $W+W-$ in association with jets in proton-proton collisions at $s = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Journal of High Energy Physics, cilt.2024, sa.7, 2024 (SCI-Expanded)
- XLI. **Measurement of the Z boson invisible width at $s=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.854, 2024 (SCI-Expanded)
- XLII. **Search for charged-lepton-flavor violating $\mu \rightarrow \tau q \bar{q}$ interactions in top-quark production and decay in $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector at the LHC**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XLIII. **Combination of searches for pair-produced leptoquarks at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.854, 2024 (SCI-Expanded)
- XLIV. **A search for top-squark pair production, in final states containing a top quark, a charm quark and missing transverse momentum, using the 139 fb⁻¹ of pp collision data collected by the ATLAS**

detector

Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.

Journal of High Energy Physics, cilt.2024, sa.7, 2024 (SCI-Expanded)

- XLV. **Combination of Searches for Resonant Higgs Boson Pair Production Using $p\bar{p}$ Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Ting E., White M., Gingrich D., et al.
Physical Review Letters, cilt.132, sa.23, 2024 (SCI-Expanded)
- XLVI. **Search for pair production of higgsinos in events with two Higgs bosons and missing transverse momentum in Formula Presented Formula Presented collisions at the ATLAS experiment**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Ting E., White M., Gingrich D., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XLVII. **Search for singly produced vectorlike top partners in multilepton final states with Formula Presented of Formula Presented collision data at Formula Presented with the ATLAS detector**
Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XLVIII. **The ATLAS experiment at the CERN Large Hadron Collider: a description of the detector configuration for Run 3**
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Davis P., Gingrich D., et al.
Journal of Instrumentation, cilt.19, sa.5, 2024 (SCI-Expanded)
- XLIX. **Measurement of t-channel production of single top quarks and antiquarks in pp collisions at 13 TeV using the full ATLAS Run 2 data sample**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)
- L. **Improving topological cluster reconstruction using calorimeter cell timing in ATLAS**
Zwalinski L., Zou W., Zormpa O., Zorbas T., Zoch K., Zoccoli A., Živković L., Ziolkowski M., Zinsser J., Zimine N., et al.
European Physical Journal C, cilt.84, sa.5, 2024 (SCI-Expanded)
- LI. **Measurement and interpretation of same-sign W boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
Journal of High Energy Physics, cilt.2024, sa.4, 2024 (SCI-Expanded)
- LII. **ATLAS searches for additional scalars and exotic Higgs boson decays with the LHC Run 2 dataset**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Reports, 2024 (SCI-Expanded)
- LIII. **Observation of electroweak production of two jets and a Z-boson pair**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
NATURE PHYSICS, cilt.19, sa.2, ss.237-253, 2023 (SCI-Expanded)
- LIV. **The observation of jet azimuthal angular decorrelations at FCC-ep**
HOŞ İ., KUDAY S., Saygın H.
International Journal of Modern Physics A, cilt.38, sa.3, 2023 (SCI-Expanded)
- LV. **Study of $B_c \rightarrow J/\psi D_s$ and $B_c \rightarrow J/\psi D_s^*$ decays in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.8, 2022 (SCI-Expanded)
- LVI. **Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector**

- Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Zeid O. S. A., Abraham N., Abramowicz H., et al.
NATURE PHYSICS, cilt.17, sa.7, ss.819-842, 2021 (SCI-Expanded)
- LVII. Test of the universality of tau and mu lepton couplings in W-boson decays with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
NATURE PHYSICS, cilt.17, sa.7, ss.813-833, 2021 (SCI-Expanded)
- LVIII. Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton - proton collisions at root s=13 TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.102, sa.11, 2020 (SCI-Expanded)
- LIX. AZIMUTHAL ANGULAR DECORRELATION OF JETS AT FUTURE HIGH-ENERGY COLLIDERS**
Hos I., Saygin H., KUDAY S.
ACTA PHYSICA POLONICA B, cilt.50, sa.2, ss.149-158, 2019 (SCI-Expanded)
- LX. Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at root s=13 TeV**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)
- LXI. Search for lepton-flavor violation in different-flavor, high-mass final states in $\sqrt{s}=13$ TeV collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, sa.9, 2018 (SCI-Expanded)
- LXII. Measurements of Higgs boson properties in the diphoton decay channel with 36 fb⁻¹ of pp collision data at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, cilt.98, sa.5, 2018 (SCI-Expanded)
- LXIII. Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.784, ss.173-191, 2018 (SCI-Expanded)
- LXIV. Search for top squarks decaying to tau sleptons in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, cilt.98, sa.3, 2018 (SCI-Expanded)
- LXV. Projections for neutral Di-Boson and Di-Higgs interactions at FCC-he collider**
KUDAY S., Saygin H., Hos L., Cetin F.
NUCLEAR PHYSICS B, cilt.932, ss.1-14, 2018 (SCI-Expanded)
- LXVI. Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.7, 2018 (SCI-Expanded)
- LXVII. Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at root s=13 TeV using the ATLAS detector**

- Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.94, sa.3, 2016 (SCI-Expanded)
- LXVIII. **Probing charged Higgs boson couplings at a future circular hadron collider**
Cakir I. T., KUDAY S., Saygin H., Senol A., Cakir O.
PHYSICAL REVIEW D, cilt.94, sa.1, 2016 (SCI-Expanded)
- LXIX. **Measurement of jet charge in dijet events from root s=8 TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
PHYSICAL REVIEW D, cilt.93, sa.5, 2016 (SCI-Expanded)
- LXX. **Search for an additional, heavy Higgs boson in the H -> ZZ decay channel at root s=8 TeV in pp collision data with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.1, 2016 (SCI-Expanded)
- LXXI. **Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at root s=8 TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2016 (SCI-Expanded)
- LXXII. **Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2015 (SCI-Expanded)
- LXXIII. **Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at root s=8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
PHYSICAL REVIEW D, cilt.92, sa.1, 2015 (SCI-Expanded)
- LXXIV. **Measurement of the transverse polarization of Lambda and (Lambda)over-bar hyperons produced in proton-proton collisions at root s=7 TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.91, sa.3, 2015 (SCI-Expanded)
- LXXV. **Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abou Zeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.90, sa.11, 2014 (SCI-Expanded)
- LXXVI. **Resonant production of Sbottom via RPV couplings at the LHeC**
KUDAY S.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, cilt.64, sa.12, ss.1783-1787, 2014 (SCI-Expanded)
- LXXVII. **Pair production of new heavy leptons with U(1)' charge at linear colliders**
ARI V., Cakir O., KUDAY S.
International Journal of Modern Physics A, cilt.29, sa.11-12, 2014 (SCI-Expanded)
- LXXVIII. **Single production of fourth family sneutrino via rpv couplings at linear colliders**
ÇAKIR O., KUDAY S., Çakir I., Sultansoy S.
Modern Physics Letters A, cilt.27, sa.28, 2012 (SCI-Expanded)
- LXXIX. **Resonant production of the fourth family slepton at the LHC**
Cakir O., KUDAY S., Cakir I. T., Sultansoy S.
Acta Physica Polonica B, cilt.43, sa.1, ss.63-70, 2012 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Deep Generative Models for Fast Photon Shower Simulation in ATLAS**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
Computing and Software for Big Science, cilt.8, sa.1, 2024 (Scopus)
- II. **Software Performance of the ATLAS Track Reconstruction for LHC Run 3**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Computing and Software for Big Science, cilt.8, sa.1, 2024 (Scopus)
- III. **Comparison of Proton and Photon Radiotherapy for Left-sided Breast Cancer via Dosimetric Calculations**
i., Kuday S.
Cumhuriyet Science Journal, cilt.44, sa.3, ss.590-594, 2023 (Hakemli Dergi)
- IV. **Comparison of Accelerator Based Radioisotope Production Potentials in Medical Imaging**
Akçay Ş., KUDAY S.
Cumhuriyet Science Journal, cilt.41, sa.1, ss.152-159, 2020 (Hakemli Dergi)
- V. **Dose Calculations of SPECT Simulations on Dynamical Targets with GATE / GEANT4**
KUDAY S.
Cumhuriyet Science Journal, cilt.40, sa.2, ss.347-354, 2019 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Virtualized Tier-3g Facility Installation for WLCG Network of CERN**
SAYGIN H., KUDAY S., Alici A., TÜRK ÇAKIR İ.
19th International Workshop on Advanced Computing and Analysis Techniques in Physics Research, Saas-Fee, İsviçre, 11 - 15 Mart 2019, cilt.1525, ss.12060-12066
- II. **PET ve SPECT Görüntülemeye Geant4 ve GATE tabanlı Benzetimler yoluyla Tanı Geliştirme Çalışmaları**
KUDAY S.
22. Ege Onkoloji Günleri, İzmir, Türkiye, 26 - 28 Şubat 2020
- III. **Effect of Distortion to Radiosurgery Treatment Plans For Brain Metastases**
Turan D. S., KUDAY S., Küçük N.
3. Anadolu Uluslararası Uygulamalı Bilimler Kongresi, Diyarbakır, Türkiye, 28 - 29 Aralık 2019
- IV. **13 TeV'de p-p Çarpışmasında ATLAS Dedektörü ile BtW Bozunum Kanalı için Vektör-Benzeri Aşağı Tipli Kuarkların Tek Üretimini Araştırılması**
KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O.
1. Ulusal CERN ile ilgili Faaliyetler Çalıştayı, Ankara, Türkiye, 4 - 05 Ekim 2018
- V. **ATLAS Detektöründe Tekli Vektör Benzeri B-Kuark Analizleri**
KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O.
İstanbul Yüksek Enerji Fiziği Çalıştayı (YEFİST 2018), İstanbul, Türkiye, 28 - 29 Nisan 2018
- VI. **A STUDY ON HIGGS BOSON COUPLINGS VIA GAMMAGAMMAZ PRODUCTION AT THE FCC E E**
ŞENOL A., KUDAY S., TÜRK ÇAKIR İ.
TURKISH PHYSICAL SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS, 6 - 09 Eylül 2016
- VII. **A STUDY ON CHARGED HIGGS BOSON COUPLINGS AT THE FCC HH COLLIDER**
TÜRK ÇAKIR İ., KUDAY S., SAYGIN H., ŞENOL A., ÇAKIR O.
TURKISH PHYSICAL SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS, 6 - 09 Eylül 2016
- VIII. **FCC-ee Çarpıştırıcısında $\gamma\gamma$ Üretimleri Yoluyla Higgs ve Ayar Bozonu Anormal Bağlaşımları**
KUDAY S., TÜRK ÇAKIR İ., ŞENOL A.
İstanbul Yüksek Enerji Fiziği Çalıştayı (YEFİST 2016), İstanbul, Türkiye, 16 - 17 Nisan 2016

- IX. Büyük Hadron Çarpıştırıcısı'nda HZZ' Bağlaşımlarının Ölçümü**
KUDAY S., ARI V., ÇAKIR O.
Ankara Yüksek Enerji Fiziği Günleri, Ankara, Türkiye, 12 - 14 Şubat 2015
- X. Beam diagnostics of E-gun test stand at TARLA**
KAYA Ç., AKSOY A., Karsli O., KOÇ B., Kazancı E., Polat C., Karakilic V., KUDAY S., AYDIN A., YILDIZ M., et al.
5th International Particle Accelerator Conference, IPAC 2014, Dresden, Almanya, 15 - 20 Haziran 2014, ss.704-706
- XI. Beam Diagnostics E-GUN Test Stand at TARLA**
KAYA Ç., AKSOY A., AYDIN A., Karakılıç V., Karşı Ö., Kazancı E., KOÇ İ. B., KUDAY S., Polat E., Şara İ., et al.
IPAC2014: 5th International Particle Accelerator Conference, Dresden, Almanya, 15 - 20 Haziran 2014
- XII. Dördüncü Aile Snötrino Tek Üretiminin R-Parite Bozan Süreçler Yoluyla Araştırılması**
KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O., SULTANOV S.
İzmir Yüksek Enerji Fiziği ve Uygulamaları Çalıştayı, İzmir, Türkiye, 19 - 23 Haziran 2012
- XIII. LHC'de R-Parite Bozan Slepton Rezonansının Araştırılması**
KUDAY S., ÇAKIR O., TÜRK ÇAKIR İ., SULTANOV S.
Ankara Yüksek Enerji Fiziği Günleri, Ankara, Türkiye, 27 - 30 Aralık 2011
- XIV. Pair Production of Stop and Sbottom at the LHC**
KUDAY S., ÇAKIR O.
Turkish Physical Society 27th International Physics Congress, İstanbul, Türkiye, 14 - 17 Eylül 2010
- XV. Süpersimetri ve LSP**
KUDAY S.
Ankara Yüksek Enerji Fiziği Günleri, Ankara, Türkiye, 29 - 30 Mayıs 2009

Desteklenen Projeler

Canbay A. C., Bilki B., Şenol A., Denizli H., Koç İ. B., Yılmaz A., Kудay S., Kaya Ç., Çakır O., Türk Çakır İ., TÜBİTAK Projesi, Büyük Hadron Çarpıştırıcısı Dedektörlerinde ve Gelecek Dairesel Çarpıştırıcıların Dedektörlerinde Kullanılacak MALTA Pixel Dedektör Kartlarının Karakterizasyonu ve Radyasyon Testleri, 2024 - 2026
Çakır O., Türk Çakır İ., Ozansoy A., Yıldız H., Arı V., Çetinkaya V., Kудay S., Diğer Resmi Kurumlarca Desteklenen Proje, CLIC Fizik/ Dedektör Simulasyonları ve Tr-Grid Üzerinde Uygulamalar, 2008 - 2011

Metrikler

Yayın: 101

Atıf (WoS): 1440

Atıf (Scopus): 1991

H-İndeks (WoS): 13

H-İndeks (Scopus): 17