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### Araştırma Alanları

DeneySEL Yüksek Enerji Fiziği Çalışmaları, Parçacık Hızlandırıcıları, Parçacık Dedektörleri ve Kalorimetreler, Fizik Analizi ve Simülasyon Çalışmaları

### Akademik Unvanlar / Görevler

Prof. Dr., Ankara Üniversitesi, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, 2023 - Devam Ediyor  
Prof. Dr., Giresun Üniversitesi, MÜHENDİSLİK FAKÜLTESİ, ENERJİ SİSTEMLERİ MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - 2022  
Doç. Dr., Giresun Üniversitesi, MÜHENDİSLİK FAKÜLTESİ, ENERJİ SİSTEMLERİ MÜHENDİSLİĞİ BÖLÜMÜ, 2015 - 2017  
Doç. Dr., İstanbul Aydın Üniversitesi, Mühendislik Fakültesi, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2014 - 2015  
Araştırma Görevlisi, Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1995 - 2002

### Akademik İdari Deneyim

Bölüm Kalite Komisyonu Başkanı, Ankara Üniversitesi, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, 2024 - Devam Ediyor  
Senato Üyesi, Ankara Üniversitesi, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, 2023 - Devam Ediyor  
Akademik Performans D. Kurulu Üyesi, Ankara Üniversitesi, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, 2023 - Devam Ediyor  
Enstitü Müdürü, Ankara Üniversitesi, 2023 - Devam Ediyor  
Araştırma Enstitüsü Müdür Yardımcısı, İstanbul Aydın Üniversitesi, 2014 - 2015

### Verdiği Dersler

#### Yüksek Lisans

HADRON FİZİĞİ, Yüksek Lisans, 2022 - 2023  
DEMET FİZİĞİNE GİRİŞ, Yüksek Lisans, 2022 - 2023

## Jüri Üyelikleri

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Giresun Üniversitesi, Ocak, 2025

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Doğu Teknik Üniversitesi, Temmuz, 2023

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **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)
- II. **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)
- III. **Observation of  $t\bar{t}$  production in the lepton+jets and dilepton channels in p+Pb collisions at  $s_{NN} = 8.16$  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.11, 2024 (SCI-Expanded)
- IV. **Search for pair production of boosted Higgs bosons via vector-boson fusion in the  $b\bar{b}b\bar{b}$  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)
- V. **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.  
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- VI. **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)
- VII. **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)
- VIII. **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.

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- IX. **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)
- X. **Combination and summary of ATLAS dark matter searches interpreted in a 2HDM with a pseudo-scalar mediator using 139 fb<sup>-1</sup> 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)
- XI. **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)
- XII. **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.  
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- XIII. **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.  
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- XIV. **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.  
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- XV. **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.  
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- XVI. **Combination of Searches for Higgs Boson Pair Production in Formula Presented Collisions at Formula Presented 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.  
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- XVII. **Studies of the Energy Dependence of Diboson Polarization Fractions and the Radiation-Amplitude-Zero Effect in WZ Production 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.  
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- XVIII. **Search for heavy Majorana neutrinos in e±e± and e±μ± final states via WW scattering in 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.856, 2024 (SCI-Expanded)
- XIX. **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)
- XX. **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.  
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- XXI. **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)
- XXII. **Search for decays of the Higgs boson into a pair of pseudoscalar particles decaying into Formula Presented using 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.  
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- XXIII. **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)
- XXIV. **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)
- XXV. **Measurement of differential cross-sections in  $t\bar{t}$  and  $t\bar{t} + \text{jets}$  production in the lepton+jets final state in pp collisions at  $s = 13$  TeV using 140 fb<sup>-1</sup> of ATLAS data**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
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- XXVI. **Search for non-resonant Higgs boson pair production in final states with leptons, taus, and photons in pp collisions at  $\sqrt{s} = 13$  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.  
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- XXVII. **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.  
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- XXVIII. **Search for the nonresonant production of Higgs boson pairs via gluon fusion and vector-boson fusion in the Formula Presented final state in proton-proton collisions at Formula Presented with the ATLAS detector**  
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.  
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- XXIX. **Searches for exclusive Higgs boson decays into  $D^* \gamma$  and Z boson decays into  $D0 \gamma$  and  $Ks 0 \gamma$  in pp collisions at  $s=13\text{TeV}$  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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.855, 2024 (SCI-Expanded)
- XXX. **Measurement of the  $VH,H \rightarrow \tau\tau$  process with the ATLAS detector at 13 TeV**

- 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.855, 2024 (SCI-Expanded)
- XXXI. **Measurement of ZZ production cross-sections in the four-lepton final state in pp collisions at  $s=13.6\text{TeV}$  with 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.855, 2024 (SCI-Expanded)
- XXXII. **Search for low-mass resonances decaying into two jets and produced in association with a photon or a jet at Formula Presented with the ATLAS detector**  
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, sa.3, 2024 (SCI-Expanded)
- XXXIII. **Combination of searches for Higgs boson decays into a photon and a massless dark photon using pp collisions at  $s=13\text{TeV}$  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.8, 2024 (SCI-Expanded)
- XXXIV. **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)
- 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. **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)
- XXXVII. **A search for top-squark pair production, in final states containing a top quark, a charm quark and missing transverse momentum, using the  $139\text{fb}^{-1}$  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)
- XXXVIII. **Combination of searches for pair-produced leptoquarks at  $s=13\text{TeV}$  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)
- XXXIX. **Search for charged-lepton-flavor violating  $\mu\tau q$  interactions in top-quark production and decay in  $p\bar{p}$  collisions at  $\sqrt{s}=13\text{TeV}$  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)
- XL. **Measurement of t-channel single-top-quark production in pp collisions at  $\sqrt{s}=5.02\text{TeV}$  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)
- XLI. **Observation of electroweak production of  $W+W-$  in association with jets in proton-proton collisions at  $s=13\text{TeV}$  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.

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- XLII. **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)
- XLIII. **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)
- XLIV. **Inclusive and differential cross-section measurements of  $t\bar{t}Z$  production in pp collisions at  $s = 13$  TeV with the ATLAS detector, including EFT and spin-correlation interpretations**  
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 Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at  $\sqrt{s}=7$  and 8 TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review Letters, cilt.132, sa.26, 2024 (SCI-Expanded)
- XLVI. **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)
- XLVII. **Measurement of jet substructure in boosted Formula Presented events with the ATLAS detector using Formula Presented of 13 TeV Formula Presented collisions**  
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)
- XLVIII. **Beam-induced backgrounds measured in the ATLAS detector during local gas injection into the LHC beam vacuum**  
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.6, 2024 (SCI-Expanded)
- XLIX. **Search for high-mass resonances in final states with a  $\tau$ -lepton and missing transverse momentum with the ATLAS detector**  
Jackson P., Kong A., Potti H., Ruggeri T., Sharma A., White M., Gingrich D., Lindon J., Nishu N., Pinfeld J., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- L. **Measurements of electroweak  $W\pm Z$  boson pair production in association with two jets in 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.  
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- LI. **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)
- LII. **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.

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- LIII. **The ATLAS trigger system for LHC Run 3 and trigger performance in 2022**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of Instrumentation, cilt.19, sa.6, 2024 (SCI-Expanded)
- LIV. **Search for Nearly Mass-Degenerate Higgsinos Using Low-Momentum Mildly Displaced Tracks in pp Collisions at Formula Presented 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.  
Physical Review Letters, cilt.132, sa.22, 2024 (SCI-Expanded)
- LIV. **Azimuthal Angle Correlations of Muons Produced via Heavy-Flavor Decays in 5.02 TeV Pb+Pb and pp Collisions 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.20, 2024 (SCI-Expanded)
- LVI. **Measurement of the total and differential cross-sections of  $t\bar{t}W$  production in pp 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., Abusleme Hoffman A., et al.  
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- LVII. **Search for electroweak production of supersymmetric particles in final states with two  $\tau$ -leptons in  $s = 13$  TeV pp collisions 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.  
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- LVIII. **Electron and photon efficiencies in LHC Run 2 with the ATLAS experiment**  
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- LIX. **Search for new particles in final states with a boosted top quark and missing transverse momentum in proton-proton collisions at  $s = 13$  TeV with the ATLAS detector**  
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- LXX. **Measurement of the Centrality Dependence of the Dijet Yield in p plus Pb Collisions at  $\sqrt{s} = 8.16$  TeV with the ATLAS Detector**  
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- LXXI. **Search for new phenomena with top-quark pairs and large missing transverse momentum using 140 fb<sup>-1</sup> of pp collision data at s = 13 TeV with the ATLAS detector**  
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- LXXV. **Search for a CP-odd Higgs boson decaying into a heavy CP-even Higgs boson and a  $Z$  boson in the  $l^+l^- \rightarrow l^+l^- t \bar{t}$  and  $\nu(\nu) \bar{b}(\bar{b})$  final states using 140 fb<sup>-1</sup> of data collected with the ATLAS detector**  
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- LXXIX. **Measurement of the production cross-section of  $J/\psi$  and  $\psi(2S)$  mesons in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- LXXX. **Search for non-resonant Higgs boson pair production in the  $2b+2\ell+ET_{\text{miss}}$  final state in  $pp$  collisions at  $s = 13$  TeV with the ATLAS detector**  
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- LXXXIII. **Improved methane production from ultrasonically-pretreated secondary sedimentation tank sludge and new model proposal: Time series (ARIMA)**  
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- LXXXVIII. **Search for exclusive Higgs and  $Z$  boson decays to  $\omega\gamma$  and Higgs boson decays to  $K^*\gamma$  with the ATLAS detector**  
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- LXXXIX. **Measurement of the Higgs boson mass with  $H \rightarrow \gamma\gamma$  decays in  $140 \text{ fb}^{-1}$  of  $s=13$  TeV pp collisions with the ATLAS detector**  
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- XCII. **Search for flavour-changing neutral  $tqH$  interactions with  $H \rightarrow \gamma\gamma$  in  $pp$  collisions at  $\sqrt{s}=13$  TeV using the ATLAS detector**  
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- XCIII. **Pursuit of paired dijet resonances in the Run 2 dataset with ATLAS**  
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- XCIV. **Evidence of pair production of longitudinally polarised vector bosons and study of CP properties in  $ZZ \rightarrow 4l$  events with the ATLAS detector at  $\sqrt{s}=13$  TeV**  
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- XCV. **Search for direct production of electroweakinos in final states with one lepton, jets and missing transverse momentum in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.12, 2023 (SCI-Expanded)

**XCVI. Search for vector-boson resonances decaying into a top quark and a bottom quark using  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.12, 2023 (SCI-Expanded)

**XCVII. Search for heavy Higgs bosons with flavour-violating couplings in multi-lepton plus  $b$ -jets final states in  $pp$  collisions at 13 TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.12, 2023 (SCI-Expanded)

**XCVIII. Search for pairs of muons with small displacements 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.

PHYSICS LETTERS B, cilt.846, 2023 (SCI-Expanded)

**XCIX. Comparison of inclusive and photon-tagged jet suppression in 5.02 TeV Pb+Pb collisions with ATLAS**

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 B, cilt.846, 2023 (SCI-Expanded)

**C. Evidence of off-shell Higgs boson production from  $ZZ$  leptonic decay channels and constraints on its total width with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.846, 2023 (SCI-Expanded)

**CI. Measurement of the cross-sections of the electroweak and total production of a  $Z\gamma$  pair in association with two jets in  $pp$  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., Abusleme Hoffman A., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.846, 2023 (SCI-Expanded)

**CII. Observation of Single-Top-Quark Production in Association with a Photon Using the ATLAS Detector**

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Physical Review Letters, cilt.131, sa.18, 2023 (SCI-Expanded)

**CIII. Search for direct production of winos and higgsinos in events with two same-charge leptons or three leptons in  $pp$  collision data at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.11, 2023 (SCI-Expanded)

**CIV. Fast  $b$ -tagging at the high-level trigger of the ATLAS experiment in 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.

Journal of Instrumentation, cilt.18, sa.11, 2023 (SCI-Expanded)

**CV. Search for pair production of third-generation leptoquarks decaying into a bottom quark and a  $\tau$  - lepton with the ATLAS detector**

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

European Physical Journal C, cilt.83, sa.11, 2023 (SCI-Expanded)

**CVI. Search for single vector-like  $B$  quark production and decay via  $B \rightarrow bH$**

**(b $\overline{b}$ ) 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., Abramowicz H., Abreu H., Abulaiti Y., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.11, 2023 (SCI-Expanded)

- CVII. Performance of the reconstruction of large impact parameter tracks in the inner detector of ATLAS**  
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.11, 2023 (SCI-Expanded)

- CVIII. Search for magnetic monopoles and stable particles with high electric charges in  $\sqrt{s}=13$  TeV  $pp$  collisions with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.11, 2023 (SCI-Expanded)

- CIX. Tools for estimating fake/non-prompt lepton backgrounds with the ATLAS detector 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.

JOURNAL OF INSTRUMENTATION, cilt.18, sa.11, 2023 (SCI-Expanded)

- CX. Search for a new pseudoscalar decaying into a pair of muons in events with a top-quark pair at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

PHYSICAL REVIEW D, cilt.108, sa.9, 2023 (SCI-Expanded)

- CXI. Measurement of Suppression of Large-Radius Jets and Its Dependence on Substructure in Pb+Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV with the ATLAS Detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.

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- CXII. Observation of an Excess of Dicharmonium Events in the Four-Muon Final State 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.

PHYSICAL REVIEW LETTERS, cilt.131, sa.15, 2023 (SCI-Expanded)

- CXIII. Integrated and differential fiducial cross-section measurements for the vector boson fusion production of the Higgs boson in the  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  decay channel at 13 TeV with the ATLAS detector**

Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.

PHYSICAL REVIEW D, cilt.108, sa.7, 2023 (SCI-Expanded)

- CXIV. Measurements of multijet event isotropies using optimal transport with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B. S., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.10, 2023 (SCI-Expanded)

- CXV. Search for periodic signals in the dielectron and diphoton invariant mass spectra using  $139 \text{ fb}^{-1}$  of  $pp$  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.2023, sa.10, 2023 (SCI-Expanded)

- CXVI. Search for lepton-flavour violation in high-mass dilepton final states using  $139 \text{ fb}^{-1}$  of  $pp$  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.2023, sa.10, 2023 (SCI-Expanded)

- CXVII. Search for a new heavy scalar particle decaying into a Higgs boson and a new scalar singlet in final**

**states with one or two light leptons and a pair of  $\tau$ -leptons with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.10, 2023 (SCI-Expanded)

**CXVIII. Observation of the  $\gamma\gamma \rightarrow \tau\tau$  Process in Pb plus Pb Collisions and Constraints on the  $\tau$ -Lepton Anomalous Magnetic Moment with the ATLAS Detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

PHYSICAL REVIEW LETTERS, sa.15, 2023 (SCI-Expanded)

**CXIX. Luminosity determination in  $\langle i \rangle pp \langle /i \rangle$  collisions at  $\sqrt{s}=13\text{TeV}$  using the ATLAS detector at the LHC**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.10, 2023 (SCI-Expanded)

**CXX. Search for leptoquarks decaying into the  $b\tau$  final state in  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  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.2023, sa.10, 2023 (SCI-Expanded)

**CXXI. Search for dark matter produced in association with a Higgs boson decaying to tau leptons at  $\sqrt{\langle i \rangle s \langle /i \rangle}=13 \text{ TeV}$  with the ATLAS detector**

Aad G., Aakvaag E., Abbott B., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.9, 2023 (SCI-Expanded)

**CXXII. Search for a light charged Higgs boson in  $t \rightarrow H \langle \text{SUP} \rangle \pm \langle / \text{SUP} \rangle b$  decays, with  $H \langle \text{SUP} \rangle \pm \langle / \text{SUP} \rangle \rightarrow cb$ , in the lepton plus jets final state in proton-proton collisions at  $\sqrt{s}=13 \text{ TeV}$  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.2023, sa.9, 2023 (SCI-Expanded)

**CXXIII. Measurements of differential cross sections of Higgs boson production through gluon fusion in the  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  final state at  $\sqrt{s}=13 \text{ TeV}$  with the ATLAS detector**

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.

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.9, 2023 (SCI-Expanded)

**CXXIV. Anomaly detection search for new resonances decaying into a Higgs boson and a generic new particle  $X$  in hadronic final states using  $\sqrt{s}=13 \text{ TeV} \langle i \rangle pp \langle /i \rangle$  collisions with the ATLAS detector**

Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.

PHYSICAL REVIEW D, cilt.108, sa.5, 2023 (SCI-Expanded)

**CXXV. Search for Majorana neutrinos in same-sign  $\langle i \rangle WW \langle /i \rangle$  scattering events from  $\langle i \rangle pp \langle /i \rangle$  collisions at  $\sqrt{\langle i \rangle s \langle /i \rangle}=13 \text{ TeV}$**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.9, 2023 (SCI-Expanded)

**CXXVI. Measurement of the  $\langle i \rangle B \langle /i \rangle \langle \text{SUP} \rangle 0 \langle / \text{SUP} \rangle \langle i \rangle \langle \text{sub} \rangle s \langle / \text{sub} \rangle \langle /i \rangle \rightarrow \mu\mu$  effective lifetime with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.9, 2023 (SCI-Expanded)

**CXXVII. Searches for exclusive Higgs and Z boson decays into a vector quarkonium state and a photon using 139 fb<sup>-1</sup> of ATLAS  $\sqrt{s}=13 \text{ TeV}$  proton-proton collision data**

- 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.83, sa.9, 2023 (SCI-Expanded)
- CXXXVIII. **Search for nonresonant pair production of Higgs bosons in the  $\bar{b}b$  over-bar final state in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.  
PHYSICAL REVIEW D, cilt.108, sa.5, 2023 (SCI-Expanded)
- CXXXIX. **Strong Constraints on Jet Quenching in Centrality-Dependent p+Pb Collisions at 5.02 TeV from ATLAS**  
Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
Physical Review Letters, cilt.131, sa.7, 2023 (SCI-Expanded)
- CXXX. **Test of CP Invariance in Higgs Boson Vector-Boson-Fusion Production Using the  $H \rightarrow \gamma\gamma$  Channel with the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physical Review Letters, cilt.131, sa.6, 2023 (SCI-Expanded)
- CXXXI. **Search for Heavy Neutral Leptons in Decays of W Bosons Using a Dilepton Displaced Vertex in Formula Presented Collisions with the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
Physical Review Letters, cilt.131, sa.6, 2023 (SCI-Expanded)
- CXXXII. **Constraints on the Higgs boson self-coupling from single- and double-Higgs production with the ATLAS detector using  $pp$  collisions at  $s=13$  TeV**  
Aad G., Abbott B., Abbott D., Abeling K., 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.843, 2023 (SCI-Expanded)
- CXXXIII. **Observation of gauge boson joint-polarisation states in  $W^{\pm} Z$  production from  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
PHYSICS LETTERS B, cilt.843, 2023 (SCI-Expanded)
- CXXXIV. **Search for pair-production of vector-like quarks in  $pp$  collision events at  $\sqrt{s}=13$  TeV with at least one leptonically decaying Z boson and a third-generation quark with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
PHYSICS LETTERS B, cilt.843, 2023 (SCI-Expanded)
- CXXXV. **Measurement of the charge asymmetry in top-quark pair production in association with a photon with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abeling K., 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.843, 2023 (SCI-Expanded)
- CXXXVI. **Measurement of the Higgs boson mass in the  $H \rightarrow ZZ^* \rightarrow 4\ell$  decay channel using 139 fb<sup>-1</sup> of  $s=13$  TeV  $pp$  collisions recorded by the ATLAS detector at the LHC**  
Aad G., Abbott B., Abbott D., Abeling K., 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.843, 2023 (SCI-Expanded)
- CXXXVII. **Measurement of the polarisation of W bosons produced in top-quark decays using dilepton events at  $\sqrt{s}=13$  TeV with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

PHYSICS LETTERS B, cilt.843, 2023 (SCI-Expanded)

- CXXXVIII. **Search for single production of vector-like  $T$  quarks decaying into  $Ht$  or  $Zt$  in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., Acharya B. S., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.8, 2023 (SCI-Expanded)
- CXXXIX. **Measurement of the production of a  $W$  boson in association with a charmed hadron in  $pp$  collisions at  $p\sqrt{s}=13$  TeV with the ATLAS detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CXL. **Measurements of  $W+W^-$  production in decay topologies inspired by searches for electroweak supersymmetry**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
European Physical Journal C, cilt.83, sa.8, 2023 (SCI-Expanded)
- CXLI. **New techniques for jet calibration with the ATLAS detector**  
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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.8, 2023 (SCI-Expanded)
- CXLII. **Search for an axion-like particle with forward proton scattering in association with photon pairs at ATLAS**  
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.2023, sa.7, 2023 (SCI-Expanded)
- CXLIII. **Search for the charged-lepton-flavor-violating decay  $Z \rightarrow e\mu$  in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Jackson P., Kong A., Potti H., Ruggieri T., Sharma A., White M., Gingrich D., Lindon J., Nishu N., Pinfeld J., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CXLIV. **Studies of the muon momentum calibration and performance of the ATLAS detector with  $pp$  collisions at  $\sqrt{s}=13$  TeV**  
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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.8, 2023 (SCI-Expanded)
- CXLV. **Search for displaced photons produced in exotic decays of the Higgs boson using 13 TeV  $pp$  collisions with the ATLAS detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CXLVI. **Search for flavor-changing neutral-current couplings between the top quark and the  $Z$  boson with proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Jackson P., Kong A., Potti H., Ruggieri T., Sharma A., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CXLVII. **Measurement of the inclusive  $t(\bar{t})$  over-bar production cross section in the lepton plus jets channel in  $pp$  collisions at  $\sqrt{s}=7$  TeV with the ATLAS detector using support vector machines**  
Jackson P., Oliver J., Petridis A., Qureshi A., Sharma A., White M., Cairo V., Jain V., Swift S., Gingrich D., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CXLVIII. **Evidence for the charge asymmetry in (Formula presented.) production at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.8, 2023 (SCI-Expanded)

- CXLIX. **Search for pair-produced vector-like top and bottom partners in events with large missing transverse momentum in pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
European Physical Journal C, cilt.83, sa.8, 2023 (SCI-Expanded)
- CL. **Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139 fb - 1 of ATLAS proton-proton collision data at  $\sqrt{s}=13$  TeV**  
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.83, sa.8, 2023 (SCI-Expanded)
- CLL. **Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using H  $\rightarrow$  WW\*  $\rightarrow$   $e^+e^- \mu^+\mu^-$  decays in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
PHYSICAL REVIEW D, cilt.108, sa.3, 2023 (SCI-Expanded)
- CLLII. **Measurements of the suppression and correlations of dijets in Xe+Xe collisions at  $\sqrt{s}=2.76$  TeV**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
Physical Review C, cilt.108, sa.2, 2023 (SCI-Expanded)
- CLLIII. **Combination of searches for invisible decays of the Higgs boson using 139 fb-1 of proton-proton collision data at  $\sqrt{s}=13$  TeV collected with the ATLAS experiment**  
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
PHYSICS LETTERS B, cilt.842, 2023 (SCI-Expanded)
- CLLIV. **Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at  $\sqrt{s}=13$  TeV**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., et al.  
PHYSICS LETTERS B, cilt.842, 2023 (SCI-Expanded)
- CLLV. **Search for high-mass  $W\gamma$  and  $Z\gamma$  resonances using hadronic  $W/Z \rightarrow$  boson decays from 139 fb<sup>-1</sup> of pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLLVI. **Search for resonant and non-resonant Higgs boson pair production in the  $b\bar{b}\tau^+\tau^-$  decay channel using 13TeV pp collision data from the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLLVII. **Search for third-generation vector-like leptons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLLVIII. **Search for new phenomena in multi-body invariant masses in events with at least one isolated lepton and two jets using  $\sqrt{s} = 13$  TeV proton-proton collision data collected by the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLLIX. **Search for leptonic charge asymmetry in  $t(\bar{t}) \rightarrow W$  production in final states**



**with three leptons at  $\sqrt{s}=13$  TeV**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLX. **Search for a new scalar resonance in flavour-changing neutral-current top-quark decays  $t \rightarrow qX$  ( $q = u, c$ ), with  $X \rightarrow b(\bar{b})$  over-bar, in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLXI. **Exclusive dielectron production in ultraperipheral Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with ATLAS**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)

- CLXII. **Search for new phenomena in final states with photons, jets and missing transverse momentum in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLXIII. **Searches for lepton-flavour-violating decays of the Higgs boson into  $e\tau$  and  $\mu\tau$  in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLXIV. **Search for excited  $\tau$ -leptons and leptoquarks in the final state with  $\tau$ -leptons and 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.2023, sa.6, 2023 (SCI-Expanded)

- CLXV. **Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at  $\sqrt{s}=7$  and 8 TeV**

Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLXVI. **Search for pair-produced scalar and vector leptoquarks decaying into third-generation quarks and first- or second-generation leptons in  $pp$  collisions with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)

- CLXVII. **Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.7, 2023 (SCI-Expanded)

- CLXVIII. **Measurement of the properties of Higgs boson production at  $\sqrt{s}=13$  TeV in the  $H \rightarrow \gamma\gamma$  channel using  $139 \text{ fb}^{-1}$  of  $pp$  collision data with the ATLAS experiment**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CLXIX. **Measurement of single top-quark production in the s-channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

- Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)
- CLXX. **Measurements of  $Z\gamma$ +jets differential cross sections in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXI. **Measurement of cross sections for production of a Z boson in association with a flavor-inclusive or doubly b-tagged large-radius jet in proton-proton collisions at  $p s=13$  TeV with the ATLAS experiment**  
Jackson P., Kong A., Oliver J., Ruggeri T., Sharma A., White M., Jain V., Swift S., Gingrich D., Pinfeld J., et al.  
PHYSICAL REVIEW D, cilt.108, sa.1, 2023 (SCI-Expanded)
- CLXXII. **A search for heavy Higgs bosons decaying into vector bosons in same-sign two-lepton final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXIII. **Inclusive-photon production and its dependence on photon isolation in  $\langle i \rangle pp \langle /i \rangle$  collisions at  $\sqrt{s}=13$  TeV using 139 fb<sup><SUP>-1</SUP></sup> of ATLAS data**  
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXIV. **Search for boosted diphoton resonances in the 10 to 70 GeV mass range using 138 fb<sup>-1</sup> of 13 TeV pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXV. **Search for dark matter produced in association with a single top quark and an energetic  $\langle i \rangle W \langle /i \rangle$  boson in  $\sqrt{\langle i \rangle s \langle /i \rangle}=13$  TeV  $\langle i \rangle pp \langle /i \rangle$  collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.7, 2023 (SCI-Expanded)
- CLXXVI. **Charged-hadron production in pp, p plus Pb, Pb plus Pb, and Xe plus Xe collisions at  $\sqrt{s_{sub}NN} = 5$  TeV with the ATLAS detector at the LHC**  
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXVII. **Search for  $tt^{\bar{}} H/A \rightarrow tt^{\bar{}}$  production in the multilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- CLXXVIII. **ATLAS flavour-tagging algorithms for the LHC Run 2  $\langle i \rangle pp \langle /i \rangle$  collision dataset**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.7, 2023 (SCI-Expanded)
- CLXXIX. **Search for heavy, long-lived, charged particles with large ionisation energy loss in  $\langle i \rangle pp \langle /i \rangle$  collisions at  $\sqrt{s}=13$  TeV using the ATLAS experiment and the full Run 2 dataset**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.6, 2023 (SCI-Expanded)
- CLXXX. **Search for supersymmetry in final states with missing transverse momentum and three or more b-jets in 139 fb<sup>-1</sup> of proton-proton 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., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
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- CLXXXI. **Search for dark photons from Higgs boson decays via ZH production with a photon plus missing transverse momentum signature from pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
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- CLXXXII. **Measurement of exclusive pion pair production in proton-proton collisions at  $\sqrt{s}=7$ 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.  
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- CLXXXIII. **Measurement of the CP properties of Higgs boson interactions with  $\tau$ -leptons with the ATLAS detector**  
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- CLXXXIV. **Search for a new Z' gauge boson in 4 $\mu$  events with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
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- CLXXXV. **Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in p s=13 TeV pp collisions**  
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.  
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- CLXXXVI. **Inclusive and differential cross-sections for dilepton  $t\bar{t}$  production measured in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
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- CLXXXVII. **Model-independent search for the presence of new physics in events including  $H \rightarrow \gamma\gamma$  with  $\sqrt{s}=13$  TeV  $\langle i \rangle pp \langle /i \rangle$  data recorded by the ATLAS detector at the LHC**  
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
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- :LXXXVIII. **Search for long-lived, massive particles in events with displaced vertices and multiple jets in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- CLXXXIX. **Search for doubly charged Higgs boson production in multi-lepton final states using 139 fb<sup>-1</sup> of proton-proton collisions at  $\sqrt{\langle i \rangle s \langle /i \rangle}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.  
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- CXC. **Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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- CXCI. **Search for dark matter produced in association with a dark Higgs boson decaying into  $W^+ W^-$  in the one-lepton final state at  $\sqrt{s} = 13$  TeV using  $139 \text{ fb}^{-1}$  of pp collisions recorded with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)

- CXCII. **Search for flavour-changing neutral current interactions of the top quark and the Higgs boson in events with a pair of  $\tau$ -leptons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

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- CXCIII. **Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in  $139 \text{ fb}^{-1}$  of  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

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- CXCIV. **Measurement of electroweak  $Z(\nu\nu^*)\gamma\gamma$  production and limits on anomalous quartic gauge couplings in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

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- CXCV. **Search for direct pair production of sleptons and charginos decaying to two leptons and neutralinos with mass splittings near the W-boson mass in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

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- CXCVI. **Search for heavy resonances decaying into a Z or W boson and a Higgs boson in final states with leptons and b-jets in  $139 \text{ fb}^{-1}$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

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- CXCVII. **Observation of four-top-quark production in the multilepton final state with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.6, 2023 (SCI-Expanded)

- CXCVIII. **Constraints on spin-0 dark matter mediators and invisible Higgs decays using ATLAS 13 TeV pp collision data with two top quarks and missing transverse momentum in the final state**

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.83, sa.6, 2023 (SCI-Expanded)

- CXCIX. **Search for Higgs boson pair production in association with a vector boson in pp collisions at  $\sqrt{s} = 13$  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.83, sa.6, 2023 (SCI-Expanded)

- CC. **Measurement of  $Z\gamma\gamma$  production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

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- CCI. **Measurement of the top-quark mass using a leptonic invariant mass in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- CCII. **A search for new resonances in multiple final states with a high transverse momentum Z boson in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
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- CCIII. **Cross-section measurements for the production of a Z boson in association with high-transverse-momentum jets in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)
- CCIV. **Measurement of the  $tt^-$  production cross-section in pp collisions at  $\sqrt{s} = 5.02$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)
- CCV. **Search for light long-lived neutral particles that decay to collimated pairs of leptons or light hadrons in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
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- CCVI. **Measurements of observables sensitive to colour reconnection in  $t(t)$ -bar events with the ATLAS detector at  $\sqrt{s}=13$ TeV**  
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.83, sa.6, 2023 (SCI-Expanded)
- CCVII. **Production of  $\Upsilon(nS)$  mesons in Pb plus Pb and  $pp$  collisions at 5.02 TeV**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
PHYSICAL REVIEW C, cilt.107, sa.5, 2023 (SCI-Expanded)
- CCVIII. **Measurement of the nuclear modification factor of b-jets in 5.02 TeV Pb+Pb collisions 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.83, sa.5, 2023 (SCI-Expanded)
- CCIX. **Measurements of the suppression and correlations of dijets in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**  
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 C, cilt.107, sa.5, 2023 (SCI-Expanded)
- CCX. **Measurement of muon pairs produced via  $\gamma\gamma$  scattering in nonultraperipheral Pb plus Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
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- CCXI. **Measurement of the total cross section and  $\rho$ -parameter from elastic scattering in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.

European Physical Journal C, cilt.83, sa.5, 2023 (SCI-Expanded)

- CCXII. **Measurement of substructure-dependent jet suppression in Pb plus Pb collisions at 5.02 TeV with the ATLAS detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
PHYSICAL REVIEW C, cilt.107, sa.5, 2023 (SCI-Expanded)
- CCXIII. **Measurement of the total and differential Higgs boson production cross-sections at  $\sqrt{s} = 13$  TeV with the ATLAS detector by combining the  $H \rightarrow ZZ^* \rightarrow 4\ell$  and  $H \rightarrow \gamma\gamma$  decay channels**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, cilt.2023, sa.5, 2023 (SCI-Expanded)
- CCXIV. **Correlations between flow and transverse momentum in Xe + Xe and Pb + Pb collisions at the LHC with the ATLAS detector: A probe of the heavy-ion initial state and nuclear deformation**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. A., et al.  
Physical Review C, cilt.107, sa.5, 2023 (SCI-Expanded)
- CCXV. **Differential  $(t\bar{t})$ -over-tilde cross-section measurements using boosted top quarks in the all-hadronic final state with 139 fb<sup>-1</sup> of ATLAS data**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2023, sa.4, 2023 (SCI-Expanded)
- CCXVI. **Search for type-III seesaw heavy leptons in leptonic final states in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.11, 2022 (SCI-Expanded)
- CCXVII. **Measurement of the polarisation of single top quarks and antiquarks produced in the  $t\bar{t}$ -channel at  $\sqrt{s}=13$  TeV and bounds on the  $tWb$  dipole operator from the ATLAS experiment**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.11, 2022 (SCI-Expanded)
- CCXVIII. **Search for Higgs boson pair production in the two bottom quarks plus two photons final state in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
PHYSICAL REVIEW D, cilt.106, sa.5, 2022 (SCI-Expanded)
- CCXIX. **Observation of  $WWW$  Production 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.  
PHYSICAL REVIEW LETTERS, cilt.129, sa.6, 2022 (SCI-Expanded)
- CCXX. **Measurements of the Higgs boson inclusive and differential fiducial cross-sections in the diphoton decay channel with  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.8, 2022 (SCI-Expanded)
- CCXXI. **Measurements of jet observables sensitive to  $b$ -quark fragmentation in  $(t\bar{t})$ -over-bar events at the LHC 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.106, sa.3, 2022 (SCI-Expanded)

CCXXII. **Measurements of Higgs boson production cross-sections in the  $H \rightarrow \tau^+ \tau^-$  decay channel in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.8, 2022 (SCI-Expanded)

CCXXIII. **Search for events with a pair of displaced vertices from long-lived neutral particles decaying into hadronic jets in the ATLAS muon spectrometer in  $pp$  collisions at  $\sqrt{s}=13$  TeV**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, cilt.106, sa.3, 2022 (SCI-Expanded)

CCXXIV. **Modelling and computational improvements to the simulation of single vector-boson plus jet processes for the ATLAS experiment**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.8, 2022 (SCI-Expanded)

CCXXV. **Search for invisible Higgs-boson decays in events with vector-boson fusion signatures using 139 fb $^{-1}$  of proton-proton data recorded by the ATLAS experiment**

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)

CCXXVI. **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)

CCXXVII. **A search for an unexpected asymmetry in the production of  $e^+ \mu^-$  and  $e^- \mu^+$  pairs in proton-proton collisions recorded by the ATLAS detector at  $\sqrt{s}=13$  TeV**

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.

PHYSICS LETTERS B, cilt.830, 2022 (SCI-Expanded)

CCXXVIII. **Constraints on Higgs boson properties using  $WW^*(\rightarrow e^+ \nu \mu^-) jj$  production in 36.1 fb $^{-1}$  of  $\sqrt{s}=13$  TeV  $pp$  collisions 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.7, 2022 (SCI-Expanded)

CCXXIX. **Search for long-lived charginos based on a disappearing-track signature using 136 fb $^{-1}$  of  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.7, 2022 (SCI-Expanded)

CCXXX. **Two-particle Bose-Einstein correlations in  $pp$  collisions at  $\sqrt{s}=13$  TeV measured with the ATLAS detector at the LHC**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.7, 2022 (SCI-Expanded)

CCXXXI. **Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICS LETTERS B, cilt.829, 2022 (SCI-Expanded)

CCXXXII. **Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb plus Pb collisions at 5.02 TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICS LETTERS B, cilt.829, 2022 (SCI-Expanded)

CCXXXIII. **Measurement of Higgs boson decay into  $b\bar{b}$ -quarks in associated production with a top-quark pair in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.6, 2022 (SCI-Expanded)

CCXXXIV. **Measurements of azimuthal anisotropies of jet production in Pb collisions at  $\sqrt{s}=5.02$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW C, cilt.105, sa.6, 2022 (SCI-Expanded)

CCXXXV. **Measurements of differential cross-sections in top-quark pair events with a high transverse momentum top quark and limits on beyond the Standard Model contributions to top-quark pair production with the ATLAS detector at  $\sqrt{s}=13$  TeV**

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.6, 2022 (SCI-Expanded)

CCXXXVI. **Constraints on Higgs boson production with large transverse momentum using  $H \rightarrow b\bar{b}(\bar{b}b)$  decays in the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, cilt.105, sa.9, 2022 (SCI-Expanded)

CCXXXVII. **Search for single production of a vectorlike T quark decaying into a Higgs boson and top quark with fully hadronic final states using the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, cilt.105, sa.9, 2022 (SCI-Expanded)

CCXXXVIII. **Search for resonant pair production of Higgs bosons in the  $b\bar{b}(\bar{b}b)$  final state using  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.

PHYSICAL REVIEW D, cilt.105, sa.9, 2022 (SCI-Expanded)

CCXXXIX. **Determination of the parton distribution functions of the proton using diverse ATLAS data from  $pp$  collisions at  $\sqrt{s}=7, 8$  and 13 TeV**

Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.5, 2022 (SCI-Expanded)

CCXL. **Measurement of the energy asymmetry in  $t\bar{t}$  production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework**

Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.4, 2022 (SCI-Expanded)

CCXLI. **Search for flavour-changing neutral-current interactions of a top quark and a gluon in  $pp$**



**collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.4, 2022 (SCI-Expanded)

- CCXLII. **Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with  $139 \text{ fb}^{-1}$  of  $pp$  collision data at  $\sqrt{s}=13$  TeV**

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.3, 2022 (SCI-Expanded)

- CCXLIII. **Search for new phenomena in three- or four-lepton events in  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abramowicz H., Abreu H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.824, 2022 (SCI-Expanded)

- CCXLIV. **Search for heavy particles in the  $b$ -tagged dijet mass distribution with additional  $b$ -tagged jets in proton-proton collisions at  $p\sqrt{s}=13$  TeV with the ATLAS experiment**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.

PHYSICAL REVIEW D, cilt.105, sa.1, 2022 (SCI-Expanded)

- CCXLV. **Search for Higgs boson decays into a pair of pseudoscalar particles in the  $bb\mu\mu$  final state with the ATLAS detector in  $pp$  collisions at  $\sqrt{s}=13$  TeV**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, cilt.105, sa.1, 2022 (SCI-Expanded)

- CCXLVI. **Measurement of the  $c$ -jet mistagging efficiency in  $t(\bar{t})$  over-bar events using  $pp$  collision data at  $\sqrt{s}=13$  TeV collected 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.1, 2022 (SCI-Expanded)

- CCXLVII. **Search for exotic decays of the Higgs boson into  $b(\bar{b})$  over-bar and missing transverse momentum in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2022, sa.1, 2022 (SCI-Expanded)

- CCXLVIII. **Operation and performance of the ATLAS semiconductor tracker in LHC Run 2**

Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

JOURNAL OF INSTRUMENTATION, cilt.17, sa.1, 2022 (SCI-Expanded)

- CCXLIX. **Search for Lepton-Flavor Violation in  $Z$  -Boson Decays with  $\tau$  Leptons with the ATLAS Detector**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.

Physical Review Letters, cilt.127, sa.27, 2021 (SCI-Expanded)

- CCL. **Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in  $\sqrt{s}=13$  TeV  $pp$  collisions with the ATLAS detector**

Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abramowicz H., Abreu H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.12, 2021 (SCI-Expanded)

- CCLI. **Configuration and performance of the ATLAS  $b$ -jet triggers in Run 2**

Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.12, 2021 (SCI-Expanded)

- CCLII. **Measurement of b-quark fragmentation properties in jets using the decay  $B \rightarrow J/\psi K$  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., AbouZeid O. S., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.12, 2021 (SCI-Expanded)
- CCLIII. **Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum 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., Abramowicz H., Abreu H., Abulaiti Y., et al.  
PHYSICAL REVIEW D, cilt.104, sa.11, 2021 (SCI-Expanded)
- CCLIV. **Search for new phenomena in pp collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abramowicz H., Abreu H., et al.  
Physical Review D, cilt.104, sa.11, 2021 (SCI-Expanded)
- CCLV. **Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using  $\sqrt{s}=13$  TeV proton-proton collision data**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.11, 2021 (SCI-Expanded)
- CCLVI. **Measurement of the  $t\bar{t}$  production cross section 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., Abramowicz H., Abreu H., Abulaiti Y., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.11, 2021 (SCI-Expanded)
- CCLVII. **Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abramowicz H., Abreu H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.11, 2021 (SCI-Expanded)
- CCLVIII. **Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at  $\sqrt{s}=13$  TeV using displaced vertices in the ATLAS inner detector**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.11, 2021 (SCI-Expanded)
- CCLIX. **Search for resonances decaying into photon pairs in  $139 \text{ fb}^{-1}$  of 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., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
PHYSICS LETTERS B, cilt.822, 2021 (SCI-Expanded)
- CCLX. **Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.11, 2021 (SCI-Expanded)
- CCLXI. **Search for New Phenomena in Final States with Two Leptons and One or No  $b$ -Tagged Jets at  $\sqrt{s}=13$  TeV Using the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
PHYSICAL REVIEW LETTERS, sa.14, 2021 (SCI-Expanded)

- CCLXII. **Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.10, 2021 (SCI-Expanded)
- CCLXIII. **Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at  $s=13$  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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.819, 2021 (SCI-Expanded)
- CCLXIV. **Search for bottom-squark pair production in pp collision events at  $s =13$  TeV with hadronically decaying  $\tau$  -leptons, b -jets, and missing transverse momentum using 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.104, sa.3, 2021 (SCI-Expanded)
- CCLXV. **Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Journal of Instrumentation, cilt.16, sa.8, 2021 (SCI-Expanded)
- CCLXVI. **Exclusive dimuon production in ultraperipheral Pb + Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with ATLAS**  
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 C, cilt.104, sa.2, 2021 (SCI-Expanded)
- CCLXVII. **Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at  $\sqrt{s}=13$  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.  
European Physical Journal C, cilt.81, sa.7, 2021 (SCI-Expanded)
- CCLXVIII. **A search for the decays of stopped long-lived particles at  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.7, 2021 (SCI-Expanded)
- CCLXIX. **Measurement of the relative  $B_{c\pm} / B_{\pm}$  production cross section with the ATLAS detector at  $s =8$  TeV  
MEASUREMENT of the RELATIVE  $B_{c\pm} / B_{\pm}$  ... AABOUD M. et al.**  
Aaboud M., Aad G., Abbott B., Abbott D., Abidinov O., Abed Abud A., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
Physical Review D, cilt.104, sa.1, 2021 (SCI-Expanded)
- CCLXX. **Determination of the parton distribution functions of the proton from ATLAS measurements of differential  $W_{\pm}$  and Z boson production in association with jets**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, cilt.2021, sa.7, 2021 (SCI-Expanded)
- CCLXXI. **Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS**  
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 C, cilt.104, sa.1, 2021 (SCI-Expanded)
- CCLXXII. **Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton 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.

- Journal of High Energy Physics, cilt.2021, sa.7, 2021 (SCI-Expanded)
- CCLXXIII. **Search for Displaced Leptons in  $\sqrt{s}=13$  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 LETTERS, sa.5, 2021 (SCI-Expanded)
- CCLXXIV. **Search for supersymmetry in events with four or more charged leptons in 139 fb<sup>-1</sup> of  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.7, 2021 (SCI-Expanded)
- CCLXXV. **Search for trilepton resonances from chargino and neutralino pair production in  $s=13$  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.103, sa.11, 2021 (SCI-Expanded)
- CCLXXVI. **Search for charged Higgs bosons decaying into a top quark and a bottom quark at  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.6, 2021 (SCI-Expanded)
- CCLXXVII. **Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, cilt.2021, sa.6, 2021 (SCI-Expanded)
- :CLXXVIII. **Search for new phenomena in events with an energetic jet and missing transverse momentum in  $pp$  collisions at  $s=13$  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.103, sa.11, 2021 (SCI-Expanded)
- CCLXXIX. **Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a  $\tau$ -lepton in  $pp$  collisions at  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.6, 2021 (SCI-Expanded)
- CCLXXX. **Measurements of  $W + W \rightarrow \geq 1$  jet production cross-sections in  $pp$  collisions at  $\sqrt{s} = 13$  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.  
Journal of High Energy Physics, cilt.2021, sa.6, 2021 (SCI-Expanded)
- CCLXXXI. **Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in  $pp$  collisions at  $s=13$  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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.816, 2021 (SCI-Expanded)
- CCLXXXII. **Observation of photon-induced  $W+W-$  production in  $pp$  collisions at  $s=13$  TeV using 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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.816, 2021 (SCI-Expanded)
- :CLXXXIII. **Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the  $\ell\ell b\bar{b}$**

**and  $\ell\ell WW$  final states in pp collisions at  $\sqrt{s}=13$  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.

European Physical Journal C, cilt.81, sa.5, 2021 (SCI-Expanded)

**:CLXXXIV. Search for new phenomena in final states with b-jets and missing transverse momentum in  $\sqrt{s} = 13$  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.

Journal of High Energy Physics, cilt.2021, sa.5, 2021 (SCI-Expanded)

**CCLXXXV. Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  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.

Journal of High Energy Physics, cilt.2021, sa.4, 2021 (SCI-Expanded)

**:CLXXXVI. Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  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.

Journal of High Energy Physics, cilt.2021, sa.4, 2021 (SCI-Expanded)

**CLXXXVII. Longitudinal Flow Decorrelations in Xe+Xe Collisions at sNN =5.44 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 Letters, cilt.126, sa.12, 2021 (SCI-Expanded)

**:LXXXVIII. Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb<sup>-1</sup> of Pb+Pb data 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.

Journal of High Energy Physics, cilt.2021, sa.3, 2021 (SCI-Expanded)

**:CLXXXIX. Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into  $\langle W \rangle$   $\langle W \rangle_{\pm}$  or  $\langle ZZ \rangle$  in Fully Hadronic Final States from  $\sqrt{s}=13$  TeV pp Collisions Recorded 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 LETTERS, sa.12, 2021 (SCI-Expanded)

**CCXC. Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at  $\sqrt{s} = 13$  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.

Journal of High Energy Physics, cilt.2021, sa.3, 2021 (SCI-Expanded)

**CCXCI. Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, cilt.81, sa.2, 2021 (SCI-Expanded)

**CCXCII. Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb<sup>-1</sup> of  $\sqrt{s} = 13$  TeV pp collision data 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.

Journal of High Energy Physics, cilt.2021, sa.2, 2021 (SCI-Expanded)

**CCXCIII. Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb plus Pb Collisions at 5.02 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 LETTERS, sa.7, 2021 (SCI-Expanded)

**CCXCIV. Search for dark matter in association with an energetic photon in pp collisions at root s=13 TeV with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.2, 2021 (SCI-Expanded)

**CCXCV. Measurement of the jet mass in high transverse momentum  $Z(\rightarrow b\bar{b})\gamma$  production at s=13TeV using the ATLAS detector**

Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.812, 2021 (SCI-Expanded)

**CCXCVI. A search for the dimuon decay of the Standard Model Higgs boson 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.812, 2021 (SCI-Expanded)

**CCXCVII. Measurement of hadronic event shapes in high-p T multijet final states at  $\sqrt{s} = 13$  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.

Journal of High Energy Physics, cilt.2021, sa.1, 2021 (SCI-Expanded)

**CCXCVIII. Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at  $\sqrt{s} = 13$  TeV using 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.

Journal of High Energy Physics, cilt.2021, sa.1, 2021 (SCI-Expanded)

**CCXCIX. Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

Journal of Instrumentation, cilt.15, sa.11, 2020 (SCI-Expanded)

**CCC. Reconstruction and identification of boosted di- $\tau$  systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS**

Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, cilt.2020, sa.11, 2020 (SCI-Expanded)

**CCCI. Search for new non-resonant phenomena in high-mass dilepton final states 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.

Journal of High Energy Physics, cilt.2020, sa.11, 2020 (SCI-Expanded)

**CCCII. Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using root s=13 TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC**

Aad G., Abbott B., Abbott D. C., Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.10, 2020 (SCI-Expanded)

**CCCIII. Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at  $\sqrt{s} = 13$  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.

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**CCCIV. Search for  $t\bar{t}$  resonances in fully hadronic final states in pp collisions at  $\sqrt{s} = 13$  TeV with the**

## **ATLAS detector**

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- CCCV. **Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
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- CCCVIII. **Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking**  
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- CCCXV. **Z boson production in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV measured by the ATLAS experiment**  
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- CCCXXIV. **Combined measurements of Higgs boson production and decay using up to  $80 \text{ fb}^{-1}$  of proton-proton collision data at  $\sqrt{s} = 13$  TeV collected with the ATLAS experiment**  
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- CCCXXXV. **Search for the lepton flavor violating decay  $Z \rightarrow e\mu$  in  $pp$  collisions at  $\sqrt{s}=8\text{ TeV}$  with the ATLAS detector**  
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- CCXXXVII. **Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC 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.  
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- :CCXXXVIII. **Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in  $\sqrt{s}=8$  TeV pp collisions at the ATLAS detector**  
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- CCCXLI. **Measurement of the top quark charge in  $\sqrt{s}=7$  TeV pp collisions at the ATLAS detector**  
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- CCCXLII. **Dynamics of isolated-photon plus jet production in pp collisions at  $\sqrt{s}=7$  TeV with the ATLAS detector**  
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- CCCXLV. **Measurement of the high-mass Drell-Yan differential cross-section in  $\sqrt{s}=7$  TeV pp collisions at the ATLAS detector**  
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- :CCXLVIII. **Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC**  
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- CCCLI. **Measurement of  $W^+W^-$  production in pp collisions at  $\sqrt{s}=7$  TeV with the ATLAS detector and limits on anomalous  $WWZ$  and  $WW\gamma$  couplings**  
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## Desteklenen Projeler

Türk Çakır İ., Çakır O., Kuday S., Canbay A. C., Diğer Resmi Kurumlarca Desteklenen Proje, CERN Gelecek Dairesel Çarpıştırıcılarda Makine Öğrenme Teknikleri İle Referans Fizik Süreçlerinin Çalışılması, 2025 - 2028

Çakır O., Kuday S., Canbay A. C., Yıldız H., Türk Çakır İ., Diğer Resmi Kurumlarca Desteklenen Proje, ATLAS Deneyinde Veri Alımı ve Veri Analizi Algıç Sistemlerinin İşletim, Bakım ve Yükseltme Çalışmaları, 2025 - 2028

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

Türk Çakır İ., Diğer Resmi Kurumlarca Desteklenen Proje, "CERN - ATLAS Deneyinde Veri Alımı, Veri Analizi ve Algıç Sistemlerinin İşletim, Bakım ve Yükseltme Çalışmaları", 2020 - 2023

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## Bilimsel Kuruluşlardaki Üyelikler / Görevler

FCC FUTURE CIRCULAR COLLIDER, Ülke Temsilcisi, 2020 - Devam Ediyor , Türkiye

CERN ATLAS DENEYİ, Üye, 2000 - Devam Ediyor , Türkiye

## Bilimsel Danışmanlıklar

CERN (Beam Line for Schools Competition), Diğer, Ankara Üniversitesi, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, Türkiye, 2023 - 2023

## Etkinlik Organizasyonlarındaki Görevler

Türk Çakır İ., FCC İş Birliği Çerçevesinde Ulusal Bilgi Paylaşımı Çalıştayı- II, Çalıştay Organizasyonu, Ankara, Türkiye, Kasım 2024

Türk Çakır İ., 15. Ulusal Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu (UPHDYO-XV), Bilimsel Kongre / Sempozyum Organizasyonu, Muğla, Türkiye, Eylül 2023

Türk Çakır İ., FCC İş Birliği Çerçevesinde Ulusal Bilgi Paylaşımı Çalıştayı, Çalıştay Organizasyonu, Türkiye, Nisan 2022

## Metrikler

Yayın: 438

Atıf (WoS): 2622

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H-İndeks (WoS): 24

H-İndeks (Scopus): 53

## Kongre ve Sempozyum Katılımı Faaliyetleri

Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, Davetli Konuşmacı, İstanbul, Türkiye, 2024

Heavy Quarks and Top Subgroup Meeting, Davetli Konuşmacı, Geneve, İsviçre, 2023

Hızlandırıcı Teknolojileri Enstitüsü Seminerleri, Davetli Konuşmacı, Ankara, Türkiye, 2023

International School on Physics & Allied Disciplines , Davetli Konuşmacı, Islamabad, Pakistan, 2023

5. Uluslararası Mühendislik Bilimler ve Multidisipliner Yaklaşımlar , Davetli Konuşmacı, İstanbul, Türkiye, 2023

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## **Davetli Konuřmalar**

Heavy Quarks and Top Subgroup Meeting, Seminer, CERN, İsvire, Ađustos 2023

ATLAS VLB Signal Validations for WBZb & ZBWt, Seminer, CERN, Trkiye, Temmuz 2023

FCC (Future Circular Collider) and Introduction to Accelerators Physics, alıřtay, International School on Physics & Allied Disciplines (ISPAD) , Pakistan, Mart 2023