

## Doç. Dr. Aytül ADIGÜZEL

### Kişisel Bilgiler

İş Telefonu: [+90 212 455 5700](tel:+902124555700) Dahili: 15508

E-posta: [aytul.adiguzel@istanbul.edu.tr](mailto:aytul.adiguzel@istanbul.edu.tr)

Web: <https://avesis.istanbul.edu.tr/aytul.adiguzel>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0001-6644-0517

Publons / Web Of Science ResearcherID: AAC-9049-2020

Yoksis Araştırmacı ID: 252006

### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri, Türkiye 2007 - 2014

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri, Türkiye 2003 - 2007

Yüksek Lisans-Tezsiz, Çukurova Üniversitesi, Fen Bilimleri, Türkiye 2003 - 2004

Lisans, Niğde Üniversitesi, Fen Edebiyat Fakültesi, Türkiye 1999 - 2003

### Sertifika, Kurs ve Eğitimler

Veri Analizi, Beyond the Standard Model: Results with the 7 TeV LHC Collision Data, ICTP, 2011

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### Yaptığı Tezler

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Yüksek Lisans, CMS Deneyindeki Supersimetri Araştırmaları, Çukurova Üniversitesi, Fen Bilimleri, Fizik, 2007

### Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Temel Bilimler

### Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2018 - Devam Ediyor

Dr.Öğr.Üyesi, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2017 - 2018

Yrd.Doç.Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2017 - 2017

## AKADEMİK İDARI DENEYİM

Doktora Sonrası Araştırmacı (PostDoc), Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2016 - 2017

## Verdiği Dersler

Algorithm and Introduction to Computer Programming, Lisans, 2023 - 2024  
Parçacık Fiziğinde Olay Üreteçleri ve Hızlı Benzetim - 1, Yüksek Lisans, 2021 - 2022  
Yüksek Enerji Fiziğinde Veri Analizi ve Simülasyonları, Lisans, 2021 - 2022  
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## Yönetilen Tezler

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## Jüri Üyelikleri

Tez Savunma (Doktora), Tez Savunma (Doktora), Marmara Üniversitesi, Ekim, 2023  
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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Study of High-Transverse-Momentum Higgs Boson Production in Association with a Vector Boson in the qqbb Final State with the ATLAS Detector**  
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- II. **Measurement of the Centrality Dependence of the Dijet Yield in Formula Presented Collisions at Formula Presented with the ATLAS Detector**  
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- IV. **Low-energy ion beam diagnostics: an integrated solution**  
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- VI. **Search for New Phenomena in Two-Body Invariant Mass Distributions Using Unsupervised Machine Learning for Anomaly Detection at  $\sqrt{s} = 13$  TeV with the ATLAS Detector**  
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- VII. **Performance and calibration of quark/gluon-jet taggers using 140 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- VIII. **Electron and photon energy calibration with the ATLAS detector using LHC Run 2 data**  
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- IX. **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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- X. **Search for quantum black hole production in lepton + jet final states using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- XI. **Probing the CP nature of the top-Higgs Yukawa coupling in  $t\bar{t}H$  and  $tH$  events with  $H\rightarrow b\bar{b}$  decays using the ATLAS detector at the LHC**  
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- XIII. **Observation of  $WZ\gamma$  Production in pp Collisions at  $\sqrt{s}=13$  TeV with the ATLAS Detector**  
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- XIV. **Measurement of the  $H\rightarrow\gamma\gamma$  and  $H\rightarrow ZZ^*\rightarrow 4\ell$  cross-sections in pp collisions at  $\sqrt{s}=13.6$  TeV with the**

## **ATLAS detector**

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**XVI. Measurement of the  $t\bar{t}$  cross section and its ratio to the Z production cross section using pp collisions at  $\sqrt{s}=13.6$  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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**XVII. Search for non-resonant production of semi-visible jets using Run 2 data in ATLAS**

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**XVIII. Search for the  $Z\gamma$  decay mode of new high-mass resonances in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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**XIX. 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  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

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**XXI. Search for pairs of muons with small displacements in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

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

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**XXIV. Measurement of Suppression of Large-Radius Jets and Its Dependence on Substructure in Pb+Pb Collisions at Formula Presented with the ATLAS Detector**

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**XXV. Measurement of the Sensitivity of Two-Particle Correlations in pp Collisions to the Presence of Hard**

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XXVI. **Observation of an Excess of Dicharmonium Events in the Four-Muon Final State with the ATLAS Detector**

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XXVIII. **Integrated and differential fiducial cross-section measurements for the vector boson fusion production of the Higgs boson in the Formula Presented decay channel at 13 TeV 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.

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XXIX. **Luminosity determination in pp collisions at  $\sqrt{s}=13$  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)

XXX. **Search for lepton-flavour violation in high-mass dilepton final states using 139 fb  $-1$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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XXXI. **Search for leptoquarks decaying into the  $b\tau$  final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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XXXII. **Search for periodic signals in the dielectron and diphoton invariant mass spectra using 139 fb $-1$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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XXXIII. **Anomaly detection search for new resonances decaying into a Higgs boson and a generic new particle X in hadronic final states using Formula Presented pp collisions with the ATLAS detector**

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

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XXXV. **Search for Majorana neutrinos in same-sign WW scattering events from pp collisions at  $\sqrt{s}=13$  TeV**

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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- XXXVI. **Search for nonresonant pair production of Higgs bosons in the Formula Presented final state in pp collisions at Formula Presented with the ATLAS detector**  
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- XXXVII. **Strong Constraints on Jet Quenching in Centrality-Dependent p+Pb Collisions at 5.02 TeV from ATLAS**  
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- XXXVIII. **Search for Heavy Neutral Leptons in Decays of W Bosons Using a Dilepton Displaced Vertex in  $\sqrt{s}=13$  TeV pp Collisions with the ATLAS Detector**  
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- XXXIX. **Test of CP Invariance in Higgs Boson Vector-Boson-Fusion Production Using the  $H\rightarrow\gamma\gamma$  Channel with the ATLAS Detector**  
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- XL. **Measurement of the Higgs boson mass in the  $H\rightarrow ZZ\rightarrow 4\ell$  decay channel using 139 fb $^{-1}$  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.  
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- XLI. **Observation of gauge boson joint-polarisation states in  $W\pm Z$  production from pp collisions at  $s=13$  TeV with the ATLAS detector**  
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- XLII. **Measurement of the charge asymmetry in top-quark pair production in association with a photon with the ATLAS experiment**  
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- XLIII. **Measurement of the polarisation of W bosons produced in top-quark decays using dilepton events at  $s=13$  TeV with the ATLAS experiment**  
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- XLIV. **Constraints on the Higgs boson self-coupling from single- and double-Higgs production with the ATLAS detector using pp collisions at  $s=13$  TeV**  
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- XLV. **Search for an axion-like particle with forward proton scattering in association with photon pairs at ATLAS**  
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- XLVI. **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.

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**XLVII. 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.

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**XLVIII. Evidence for the charge asymmetry in (Formula presented.) production at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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**XLIX. Measurement of the inclusive Formula Presented production cross section in the lepton+jets channel in pp collisions at Formula Presented 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.

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**L. Search for the charged-lepton-flavor-violating decay  $Z \rightarrow e\mu$  in pp collisions at Formula Presented 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.

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**LI. Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139 fb<sup>-1</sup> 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.

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**LII. Measurement of the production of a W boson in association with a charmed hadron in pp collisions 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.108, sa.3, 2023 (SCI-Expanded)

**LIIL. Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  decays in pp collisions 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.108, sa.3, 2023 (SCI-Expanded)

**LIV. Measurements of the suppression and correlations of dijets in Xe+Xe collisions at Formula Presented TeV**

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

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**LV. 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., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.

Physical Review D, cilt.108, sa.3, 2023 (SCI-Expanded)

**LVI. Search for flavor-changing neutral-current couplings between the top quark and the Z boson with proton-proton collisions at Formula Presented with the ATLAS detector**

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

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**LVII. Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at  $s=13$  TeV**

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

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- LVIII. Combination of searches for invisible decays of the Higgs boson using 139 fb<sup>-1</sup> 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.  
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- LIX. Search for high-mass  $W\gamma$  and  $Z\gamma$  resonances using hadronic  $W/Z$  boson decays from 139 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- LX. Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in Formula Presented 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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- LXI. Search for resonant and non-resonant Higgs boson pair production in the  $b\bar{b}\tau^+\tau^-$  decay channel using 13 TeV 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.  
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- LXII. Model-independent search for the presence of new physics in events including  $H \rightarrow \gamma\gamma$  with  $\sqrt{s} = 13$  TeV pp 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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- LXIII. 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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- LXIV. Search for a new  $Z'$  gauge boson in  $4\mu$  events with the ATLAS experiment**  
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- LXV. 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**  
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- LXVI. Search for heavy, long-lived, charged particles with large ionisation energy loss in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS experiment and the full Run 2 dataset**  
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- LXVII. 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**  
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- LXVIII. 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 Formula Presented with the ATLAS experiment**

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- LXIX. **Measurement of the properties of Higgs boson production at  $\sqrt{s} = 13$  TeV in the  $H \rightarrow \gamma\gamma$  channel using 139 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.  
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- LXX. **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.  
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- LXXI. **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.  
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- LXXII. **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.  
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- LXXIII. **Search for third-generation vector-like leptons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- LXXIV. **Search for leptonic charge asymmetry in  $t\bar{t}^- W$  production in final states with three leptons at  $\sqrt{s} = 13$  TeV**  
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- LXXV. **Measurement of exclusive pion pair production in proton–proton collisions at  $\sqrt{s}=7$ TeV with the ATLAS detector**  
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- LXXVI. **Search for a new scalar resonance in flavour-changing neutral-current top-quark decays  $t \rightarrow qX$  ( $q = u, c$ ), with  $X \rightarrow b\bar{b}^-$ , in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- LXXVII. **Search for boosted diphoton resonances in the 10 to 70 GeV mass range using 138 fb $^{-1}$  of 13 TeV pp collisions with the ATLAS detector**  
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- LXXVIII. **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 fb $^{-1}$  of pp collisions recorded with the ATLAS detector**  
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Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)

- LXXXIX. **Measurements of  $Z\gamma$ +jets differential cross sections in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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- LXXX. **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.

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- LXXXI. **Inclusive-photon production and its dependence on photon isolation in pp collisions at  $\sqrt{s} = 13$  TeV using 139 fb<sup>-1</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.

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- LXXXII. **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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- LXXXIII. **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**

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- LXXXIV. **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**

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- LXXXV. **Charged-hadron production in pp, p+Pb, Pb+Pb, and Xe+Xe collisions at  $\sqrt{s_{NN}} = 5$  TeV with the ATLAS detector at the LHC**

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- LXXXVI. **Search for  $t\bar{t} H/A \rightarrow t\bar{t} t\bar{t}$  production in the multilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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- LXXXVII. **ATLAS flavour-tagging algorithms for the LHC Run 2 pp collision dataset**

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

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- LXXXIX. **Inclusive and differential cross-sections for dilepton  $t\bar{t}$  production measured 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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- XC. **Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- XCII. **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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- XCIII. **Measurement of the  $t\bar{t}$  production cross-section in pp collisions at  $\sqrt{s} = 5.02$  TeV with the ATLAS detector**  
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- XCIV. **Search for Higgs boson pair production in association with a vector boson in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- XCV. **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**  
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- XCVI. **Observation of four-top-quark production in the multilepton final state with the ATLAS detector**  
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- XCVI. **Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in 139 fb<sup>-1</sup> 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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- XCVII. **Measurement of  $Z\gamma\gamma$  production in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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- XCVIII. **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**  
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- XCIX. **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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- C. **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**  
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- CI. **Measurement of electroweak  $Z(\nu\bar{\nu}) \gamma\gamma$  production and limits on anomalous quartic gauge couplings in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- CII. **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**  
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- CIII. **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 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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- CIV. **Measurements of observables sensitive to colour reconnection in  $t\bar{t}$  events with the ATLAS detector at  $\sqrt{s} = 13$  TeV**  
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- CV. **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**  
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- CVI. **Measurement of muon pairs produced via  $\gamma\gamma$  scattering in nonultraperipheral Pb + Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector**  
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- CVII. **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**  
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- CVIII. **Measurement of substructure-dependent jet suppression in Pb+Pb collisions at 5.02 TeV with the ATLAS detector**  
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- CIX. **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.  
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- CX. **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.

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**CXI. Production of  $Y(nS)$  mesons in Pb + 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.

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**CXII. 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.

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**CXIII. Differential  $t\bar{t}$  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.

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**CXV. Ion source and LEBT of KAHVELab proton beamline**

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**CXVI. Measurement of the polarisation of single top quarks and antiquarks produced in the t-channel at  $\sqrt{s} = 13$  TeV and bounds on the  $tWb$  dipole operator from 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.

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**CXVII. 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.

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**CXVIII. Search for Higgs boson pair production in the two bottom quarks plus two photons final state 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., Abramowicz H., Abreu H., Abulaiti Y., et al.

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**CXIX. Observation of WWW Production 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., Aboulhorma A., Abramowicz H., Abreu H., et al.

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**CXX. Study of  $Bc^+ \rightarrow J/\psi D_s^+$  and  $Bc^+ \rightarrow J/\psi D_s^{*+}$  decays 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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**CXXI. 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**

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**CXXII. Search for invisible Higgs-boson decays in events with vector-boson fusion signatures using 139 fb<sup>-1</sup> of proton-proton data recorded by 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.

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**CXXIII. Direct constraint on the Higgs-charm coupling from a search for Higgs boson decays into charm quarks 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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**CXXIV. 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.

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**CXXV. 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.

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

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European Physical Journal C, cilt.82, sa.7, 2022 (SCI-Expanded)

**CXXVII. 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)

**CXXVIII. Constraints on Higgs boson properties using  $WW^*(\rightarrow e\nu\mu\nu)$  jj production in 36.1fb<sup>-1</sup> 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)

**CXXIX. Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+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, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.829, 2022 (SCI-Expanded)

**CXXX. Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at  $s=13$  TeV with the ATLAS detector**

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**CXXXI. Search for neutral long-lived particles in pp collisions at  $\sqrt{s} = 13$  TeV that decay into displaced hadronic jets in the ATLAS calorimeter**

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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- CXXXII. **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., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

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

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

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- CXXXV. **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.

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- CXXXVI. **Search for resonant pair production of Higgs bosons in the  $b \bar{b} b \bar{b}$  final state using 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., Abramowicz H., Abreu H., Abulaiti Y., et al.

Physical Review D, cilt.105, sa.9, 2022 (SCI-Expanded)

- CXXXVII. **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**

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- CXXXVIII. **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.

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- CXXXIX. **Measurement of the energy asymmetry in  $t\bar{t} j$  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.

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- CXL. **Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb<sup>-1</sup> of pp collision data 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.

Journal of High Energy Physics, cilt.2022, sa.3, 2022 (SCI-Expanded)

- CXLI. **The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2**

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

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European Physical Journal C, cilt.82, sa.3, 2022 (SCI-Expanded)

- CXLII. **Measurement of the energy response of the ATLAS calorimeter to charged pions from  $W^\pm \rightarrow \tau^\pm (\rightarrow \pi^\pm \nu_\tau) \nu_\tau$  events in Run 2 data**  
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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- CXLIII. **Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13 TeV 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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- CXLIV. **Search for exotic decays of the Higgs boson into  $b b^-$  and missing transverse momentum 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.  
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- CXLV. **Search for heavy particles in the  $b$  -tagged dijet mass distribution with additional  $b$  -tagged jets in proton-proton collisions at  $s = 13$  TeV with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abud A. 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)
- CXLVI. **Search for Higgs boson decays into a pair of pseudoscalar particles in the  $b b \mu \mu$  final state with the ATLAS detector in pp collisions at  $s = 13$  TeV**  
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
Physical Review D, cilt.105, sa.1, 2022 (SCI-Expanded)
- CXLVII. **Measurement of the  $c$ -jet mistagging efficiency in  $t t^-$  events using pp collision data at  $\sqrt{s} = 13$  TeV collected 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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- CXLVIII. **Performance of the ATLAS Level-1 topological trigger in Run 2**  
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
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- CXLIX. **Search for heavy particles in the  $b$  -tagged dijet mass distribution with additional  $b$  -tagged jets in proton-proton collisions at  $s = 13$  TeV with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abud A. 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)
- CL. **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)
- CLI. **Configuration and performance of the ATLAS  $b$ -jet triggers in Run 2**  
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.81, sa.12, 2021 (SCI-Expanded)
- CLII. **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)

- CLIII. **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)

- CLIV. **Search for resonances decaying into photon pairs in 139 fb<sup>-1</sup> of pp collisions at root 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)

- CLV. **Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using root 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)

- CLVI. **Measurement of the t(t)over-bar production cross section in pp collisions at root 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)

- CLVII. **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., 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)

- CLVIII. **Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at root S=13 TeV Using 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 LETTERS, cilt.127, sa.14, 2021 (SCI-Expanded)

- CLIX. **Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at root 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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.10, 2021 (SCI-Expanded)

- CLX. **Search for dark matter produced in association with a single top quark in root 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., Abraham N. L., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.10, 2021 (SCI-Expanded)

- CLXI. **Jet energy scale and resolution measured in 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.8, 2021 (SCI-Expanded)

- CLXII. **Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents**

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.  
JOURNAL OF INSTRUMENTATION, cilt.16, sa.8, 2021 (SCI-Expanded)
- CLXIII. **Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at root 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.8, 2021 (SCI-Expanded)
- CLXIV. **Measurement of single top-quark production in association with a W boson in the single-lepton channel at root s=8 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.81, sa.8, 2021 (SCI-Expanded)
- CLXV. **Search for bottom-squark pair production in pp collision events at root s=13 TeV with hadronically decaying tau-leptons, b-jets, and missing transverse momentum using 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.  
PHYSICAL REVIEW D, cilt.104, sa.3, 2021 (SCI-Expanded)
- CLXVI. **Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at root 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.819, 2021 (SCI-Expanded)
- CLXVII. **Exclusive dimuon production in ultraperipheral Pb plus Pb collisions at root S=5.02 TeV with ATLAS**  
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.  
PHYSICAL REVIEW C, cilt.104, sa.2, 2021 (SCI-Expanded)
- CLXVIII. **Search for supersymmetry in events with four or more charged leptons in 139 fb<sup>-1</sup> of root 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., Abraham N. L., Abramowicz H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.7, 2021 (SCI-Expanded)
- CLXIX. **Determination of the parton distribution functions of the proton from ATLAS measurements of differential W<sup>+</sup>/W<sup>-</sup> and Z boson production in association with jets**  
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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- CLXX. **Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abou Zeid O. S., Abraham N. L., Abramowicz H., et al.  
NATURE PHYSICS, cilt.17, sa.7, ss.819-842, 2021 (SCI-Expanded)
- CLXXI. **Test of the universality of tau and mu lepton couplings in W-boson decays 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.  
NATURE PHYSICS, cilt.17, sa.7, ss.813-833, 2021 (SCI-Expanded)
- CLXXII. **Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at root s=13 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.81, sa.7, 2021 (SCI-Expanded)
- CLXXIII. **Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at root s=13 TeV**

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

JOURNAL OF INSTRUMENTATION, cilt.16, sa.7, 2021 (SCI-Expanded)

- CLXXIV. **Measurement of the relative  $B\text{-}c(+/-)/B\text{-}+/-$  production cross section with the ATLAS detector at  $\sqrt{s}=8$  TeV**

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

PHYSICAL REVIEW D, cilt.104, sa.1, 2021 (SCI-Expanded)

- CLXXV. **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. C., Abud A. 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.2021, sa.7, 2021 (SCI-Expanded)

- CLXXVI. **Search for Displaced Leptons 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., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, cilt.127, sa.5, 2021 (SCI-Expanded)

- CLXXVII. **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. C., Abud A. 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.2021, sa.7, 2021 (SCI-Expanded)

- CLXXVIII. **Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set 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.81, sa.7, 2021 (SCI-Expanded)

- CLXXIX. **Two-particle azimuthal correlations in photonuclear ultraperipheral Pb plus Pb collisions at 5.02 TeV with ATLAS**

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.

PHYSICAL REVIEW C, cilt.104, sa.1, 2021 (SCI-Expanded)

- CLXXX. **Measurements of  $W+W\text{-}+ \geq 1$  jet production cross-sections 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., Abraham N. L., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.6, 2021 (SCI-Expanded)

- CLXXXI. **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. C., Abud A. 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.2021, sa.6, 2021 (SCI-Expanded)

- CLXXXII. **Search for new phenomena in events with an energetic jet 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., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW D, cilt.103, sa.11, 2021 (SCI-Expanded)

- CLXXXIII. **Search for trilepton resonances from chargino and neutralino pair production 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., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW D, cilt.103, sa.11, 2021 (SCI-Expanded)

- CLXXXIV. **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 root s=13 TeV**  
Aaboud M., Aad G., Abbott B., Abidinov 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.6, 2021 (SCI-Expanded)
- CLXXXV. **Search for charged Higgs bosons decaying into a top quark and a bottom quark at root 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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.6, 2021 (SCI-Expanded)
- CLXXXVI. **Measurements of Higgs bosons decaying to bottom quarks from vvector boson fusion production with the ATLAS experiment at root 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.81, sa.6, 2021 (SCI-Expanded)
- CLXXXVII. **Search for new phenomena in final states with b-jets and missing transverse momentum in root 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., Abraham N. L., Abramowicz H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.5, 2021 (SCI-Expanded)
- CLXXXVIII. **CutLang as an analysis description language for introducing students to analyses in particle physics**  
ADIGÜZEL A., ÇAKIR O., Kaya U., Ozcan V. E., Ozturk S., Sekmen S., Akir I. T., Unel G.  
EUROPEAN JOURNAL OF PHYSICS, cilt.42, sa.3, 2021 (SCI-Expanded)
- CLXXXIX. **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 root s=13 TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
PHYSICS LETTERS B, cilt.816, 2021 (SCI-Expanded)
- CXC. **Observation of photon-induced W+ W- production in pp collisions at root s=13 TeV using the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
PHYSICS LETTERS B, cilt.816, 2021 (SCI-Expanded)
- CXCI. **Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the llbb and llWW final states in pp collisions at root 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.5, 2021 (SCI-Expanded)
- CXCII. **Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.4, 2021 (SCI-Expanded)
- CXCIII. **Search for heavy resonances decaying into a pair of Z bosons in the l(+)-l'(+)-l'(-) and l(+)-l'(-)nu(nu)over-bar final states using 139 fb(-1) of proton-proton collisions at root s=13TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.4, 2021 (SCI-Expanded)
- CXCIV. **Measurement of the CP-violating phase phi(s) in B-s(0) -> J/psi phi decays in ATLAS at 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.81, sa.4, 2021 (SCI-Expanded)

- CXCV. **Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.4, 2021 (SCI-Expanded)

- CXCVI. **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**

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.4, 2021 (SCI-Expanded)

- CXCVII. **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**

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.3, 2021 (SCI-Expanded)

- CXCVIII. **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. C., Abud A. 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.2021, sa.3, 2021 (SCI-Expanded)

- CXCIX. **Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into (WW  $\rightarrow$   $\gamma\gamma$ ) or ZZ in Fully Hadronic Final States from  $\sqrt{s}=13$  TeV pp Collisions Recorded 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.

PHYSICAL REVIEW LETTERS, cilt.126, sa.12, 2021 (SCI-Expanded)

- CC. **Longitudinal Flow Decorrelations in Xe plus Xe Collisions at  $\sqrt{s_{NN}}=5.44$  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.

PHYSICAL REVIEW LETTERS, cilt.126, sa.12, 2021 (SCI-Expanded)

- CCI. **Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at  $\sqrt{s}=13$  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.

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.3, 2021 (SCI-Expanded)

- CCII. **Search for dark matter in association with an energetic photon in pp collisions at  $\sqrt{s}=13$  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)

- CCIII. **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. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, cilt.126, sa.7, 2021 (SCI-Expanded)

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

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

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.2, 2021 (SCI-Expanded)

- CCV. **Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb<sup>-1</sup> of root s=13 TeV pp collision data with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abidinov 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)

- CCVI. **Measurements of  $WH$  and  $ZH$  production in the  $H \rightarrow b\bar{b}$  decay channel in  $pp$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.2, 2021 (SCI-Expanded)

- CCVII. **A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)

- CCVIII. **Measurement of hadronic event shapes in high-p(T) multijet final states at root s=13 TeV with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abidinov 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.1, 2021 (SCI-Expanded)

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

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

PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)

- CCX. **Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at root s=13 TeV using the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2021 (SCI-Expanded)

- CCXI. **Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.1, 2021 (SCI-Expanded)

- CCXII. **Search for heavy diboson resonances in semileptonic final states in pp collisions at root s=13 TeV with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.12, 2020 (SCI-Expanded)

- CCXIII. **Alignment of the ATLAS Inner Detector in Run 2**

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.80, sa.12, 2020 (SCI-Expanded)

- CCXIV. **Search for Higgs boson decays into two new low-mass spin-0 particles in the 4b channel with the ATLAS detector using pp collisions at root 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.

PHYSICAL REVIEW D, cilt.102, sa.11, 2020 (SCI-Expanded)

**CCXV. Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS**

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.

PHYSICAL REVIEW LETTERS, cilt.125, sa.26, 2020 (SCI-Expanded)

**CCXVI. Determination of jet calibration and energy resolution in proton-proton collisions at  $\sqrt{s}=8$  TeV using 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.80, sa.12, 2020 (SCI-Expanded)

**CCXVII. Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton - proton collisions at  $\sqrt{s}=13$  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.

PHYSICAL REVIEW D, cilt.102, sa.11, 2020 (SCI-Expanded)

**CCXVIII. Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson 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., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, cilt.125, sa.25, 2020 (SCI-Expanded)

**CCXIX. Search for top squarks in events with a Higgs or Z boson using 139 fb<sup>-1</sup> of pp collision data 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.11, 2020 (SCI-Expanded)

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

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.

JOURNAL OF INSTRUMENTATION, cilt.15, sa.11, 2020 (SCI-Expanded)

**CCXXI. Evidence for  $t\bar{t}$  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. 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.80, sa.11, 2020 (SCI-Expanded)

**CCXXII. Search for new non-resonant phenomena in high-mass dilepton final states 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.2020, sa.11, 2020 (SCI-Expanded)

**CCXXIII. Measurement of the  $t\bar{t}$  production cross-section in the lepton plus jets channel at  $\sqrt{s}=13$  TeV with the ATLAS experiment**

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.810, 2020 (SCI-Expanded)

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

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.2020, sa.11, 2020 (SCI-Expanded)

- CCXXV. **Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW LETTERS, cilt.125, sa.22, 2020 (SCI-Expanded)
- CCXXVI. **Operation of the ATLAS trigger system in Run 2**  
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.  
JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)
- CCXXVII. **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**  
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, sa.10, 2020 (SCI-Expanded)
- CCXXVIII. **Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4l decay channel at root s=13 TeV**  
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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.10, 2020 (SCI-Expanded)
- CCXXIX. **Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in root s=13 TeV pp collisions 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.2020, sa.10, 2020 (SCI-Expanded)
- CCXXX. **Search for t(t)over-bar resonances in fully hadronic final states 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.2020, sa.10, 2020 (SCI-Expanded)
- CCXXXI. **A search for the Z gamma decay mode of the Higgs boson in pp collisions at root s=13 TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICS LETTERS B, cilt.809, 2020 (SCI-Expanded)
- CCXXXII. **Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons 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.2020, sa.10, 2020 (SCI-Expanded)
- CCXXXIII. **Higgs boson production cross-section measurements and their EFT interpretation in the 4l decay channel 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.10, 2020 (SCI-Expanded)
- CCXXXIV. **Dijet Resonance Search with Weak Supervision Using root S=13 TeV pp Collisions in 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.  
PHYSICAL REVIEW LETTERS, cilt.125, sa.13, 2020 (SCI-Expanded)
- CCXXXV. **Performance of the ATLAS muon triggers in Run 2**  
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.  
JOURNAL OF INSTRUMENTATION, cilt.15, sa.9, 2020 (SCI-Expanded)
- CCXXXVI. **Measurements of inclusive and differential cross-sections of combined  $t\bar{t} \rightarrow \gamma \gamma$  and  $t\bar{t} \rightarrow W \gamma$  production in the  $e \mu$  channel at 13 TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov 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.2020, sa.9, 2020 (SCI-Expanded)
- CCXXXVII. **Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CCXXXVIII. **Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter 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., Abraham N. L., Abramowicz H., et al.  
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CCXXXIX. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at  $\sqrt{s}=8$  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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.8, 2020 (SCI-Expanded)
- CCXL. **Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking**  
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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.8, 2020 (SCI-Expanded)
- CCXLI. **Search for a scalar partner of the top quark in the all-hadronic  $t(\bar{t})$  plus missing transverse momentum final state at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
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- CCXLII. **CP Properties of Higgs Boson Interactions with Top Quarks in the  $t(\bar{t}) \rightarrow H \gamma \gamma$  and  $t \rightarrow H \gamma$  Processes Using  $H \rightarrow \gamma \gamma$  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.  
PHYSICAL REVIEW LETTERS, cilt.125, sa.6, 2020 (SCI-Expanded)
- CCXLIII. **Measurement of azimuthal anisotropy of muons from charm and bottom hadrons Pb plus Pb collisions at  $\sqrt{s_{NN}}=5.02$  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.807, 2020 (SCI-Expanded)
- CCXLIV. **Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets 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., Abraham N. L., Abramowicz H., et al.  
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- CCXLV. **Measurements of top-quark pair spin correlations in the  $e \mu$  channel at  $\sqrt{s}=13$  TeV using pp collisions in the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.8, 2020 (SCI-Expanded)

- CCXLVI. **Search for the  $HH \rightarrow b(b)\overline{b}b(b)\overline{b}$  process via vector-boson fusion production using proton-proton collisions at  $\sqrt{s}=13$  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.2020, sa.7, 2020 (SCI-Expanded)

- CCXLVII. **Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at  $\sqrt{s}=13$  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.

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.7, 2020 (SCI-Expanded)

- CCXLVIII. **Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at  $\sqrt{s}=13$  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.

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- CCXLIX. **Observation of the associated production of a top quark and a Z boson 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., Abraham N. L., Abramowicz H., et al.

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- CCL. **Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using 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.

PHYSICAL REVIEW LETTERS, cilt.125, sa.5, 2020 (SCI-Expanded)

- CCLI. **Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton 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., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, cilt.124, sa.22, 2020 (SCI-Expanded)

- CCLII. **Test of CP invariance in vector-boson fusion production of the Higgs boson in the  $H \rightarrow \tau\tau$  channel in 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.

PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)

- CCLIII. **Search for dijet resonances in events with an isolated charged lepton using  $\sqrt{s}=13$  TeV proton-proton collision data collected by 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.2020, sa.6, 2020 (SCI-Expanded)

- CCLIV. **Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb<sup>-1</sup> of data collected 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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)

- CCLV. **Measurement of the  $t\bar{t}$  production cross-section and lepton differential distributions in  $e\mu$  dilepton events from 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.6, 2020 (SCI-Expanded)
- CCLVI. **Search for light long-lived neutral particles produced in pp collisions at root s=13 TeV and decaying into collimated leptons or light hadrons 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.5, 2020 (SCI-Expanded)
- CCLVII. **Evidence for electroweak production of two jets in association with a Z gamma pair in pp collisions at root 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.803, 2020 (SCI-Expanded)
- CCLVIII. **Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in root 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., Abraham N. L., Abramowicz H., et al.  
PHYSICAL REVIEW D, cilt.101, sa.7, 2020 (SCI-Expanded)
- CCLIX. **ATLAS data quality operations and performance for 2015-2018 data-taking**  
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 INSTRUMENTATION, cilt.15, sa.4, 2020 (SCI-Expanded)
- CCLX. **Search for long-lived neutral particles produced in pp collisions at root s=13 TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer**  
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.  
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCLXI. **Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at root 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.  
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCLXII. **Searches for electroweak production of supersymmetric particles with compressed mass spectra in root 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., Abraham N. L., Abramowicz H., et al.  
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCLXIII. **Z boson production in Pb plus Pb collisions at root S-NN=5.02 TeV measured by the ATLAS experiment**  
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.  
PHYSICS LETTERS B, cilt.802, 2020 (SCI-Expanded)
- CCLXIV. **Measurement of the Z(-> l(+))l(-))gamma production cross-section in pp collisions at root 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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCLXV. **Search for new resonances in mass distributions of jet pairs using 139 fb(-1) of pp collisions at root s=13TeV 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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCLXVI. **Measurement of isolated-photon plus two-jet production in pp collisions at root 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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

- CCLXVII. **Search for direct stau production in events with two hadronic tau-leptons 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., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW D, cilt.101, sa.3, 2020 (SCI-Expanded)

- CCLXVIII. **Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at  $\sqrt{s}=13$  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.

PHYSICAL REVIEW LETTERS, cilt.124, sa.8, 2020 (SCI-Expanded)

- CCLXIX. **Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in  $\sqrt{s}=13$  TeV pp collisions using 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.2, 2020 (SCI-Expanded)

- CCLXX. **Search for the Higgs boson decays  $H \rightarrow ee$  and  $H \rightarrow e\mu$  in pp collisions at  $\sqrt{s}=13$  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.

PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)

- CCLXXI. **Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at  $\sqrt{s}=13$  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.

PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)

- CCLXXII. **Measurement of the azimuthal anisotropy of charged-particle production in Xe plus Xe collisions at  $\sqrt{s_{NN}}=5.44$  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.

PHYSICAL REVIEW C, cilt.101, sa.2, 2020 (SCI-Expanded)

- CCLXXIII. **Search for non-resonant Higgs boson pair production in the  $b\bar{b}l\nu l\nu$  final state with the ATLAS detector in pp collisions at  $\sqrt{s}=13$  TeV**

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.

PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)

- CCLXXIV. **Measurement of differential cross sections for single diffractive dissociation in  $\sqrt{s}=8$  TeV pp collisions using the ATLAS ALFA spectrometer**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.2, 2020 (SCI-Expanded)

- CCLXXV. **Transverse momentum and process dependent azimuthal anisotropies in  $\sqrt{s_{NN}}=8.16$  TeV p plus Pb collisions with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)

- CCLXXVI. **Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at  $\sqrt{s}=8$  and 13 TeV**

- 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCLXXVII. **Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector**  
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW LETTERS, cilt.124, sa.3, 2020 (SCI-Expanded)
- :CLXXVIII. **Performance of electron and photon triggers in ATLAS during LHC Run 2**  
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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCLXXIX. **Searches for lepton-flavour-violating decays of the Higgs boson 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., Abraham N. L., Abramowicz H., et al.  
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCLXXX. **Combination of searches for Higgs boson pairs 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., Abraham N. L., Abramowicz H., et al.  
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCLXXXI. **Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb<sup>-1</sup> of pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS experiment**  
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.800, 2020 (SCI-Expanded)
- CCLXXXII. **Combined measurements of Higgs boson production and decay using up to 80 fb<sup>-1</sup> of proton-proton collision data at  $\sqrt{s}=13$  TeV collected with the ATLAS experiment**  
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.  
PHYSICAL REVIEW D, cilt.101, sa.1, 2020 (SCI-Expanded)
- :CLXXXIII. **Fluctuations of anisotropic flow in Pb plus Pb collisions at  $\sqrt{s(NN)}=5.02$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.1, 2020 (SCI-Expanded)
- :CLXXXIV. **Measurement of J/ $\psi$  production in association with a W- $\pm$  boson with pp data at 8 TeV**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.1, 2020 (SCI-Expanded)
- CCLXXXV. **Measurement of angular and momentum distributions of charged particles within and around jets in Pb plus Pb and pp collisions at  $\sqrt{s(NN)}=5.02$  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.  
PHYSICAL REVIEW C, cilt.100, sa.6, 2019 (SCI-Expanded)
- :CLXXXVI. **Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at  $\sqrt{s(NN)}=5.02$  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.79, sa.12, 2019 (SCI-Expanded)

- CLXXXVII. **Measurements of top-quark pair differential and double-differential cross-sections in the  $l$  plus jets channel with pp collisions at  $\sqrt{s}=13$  TeV using 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.79, sa.12, 2019 (SCI-Expanded)
- LXXXVIII. **Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data**  
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.  
JOURNAL OF INSTRUMENTATION, cilt.14, 2019 (SCI-Expanded)
- CLXXXIX. **Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2019 (SCI-Expanded)
- CCXC. **Measurement of  $K_S(0)$  and  $\Lambda(0)$  production in tt dileptonic events in pp collisions at  $\sqrt{s}=7$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.12, 2019 (SCI-Expanded)
- CCXCI. **Evidence for the production of three massive vector bosons with the ATLAS detector**  
Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXCII. **Measurement of the production cross section for a Higgs boson in association with a vector boson in the  $H \rightarrow WW^* \rightarrow l \nu l \nu$  channel in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., et al.  
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXCIII. **Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at  $\sqrt{s}=13$  TeV**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., et al.  
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXCIV. **Experimental high energy physics summer school for high schools**  
Gurbuz S., Adiguzel A., Ozcan V. E., Kirpici S. M., Yilmaz A.  
CANADIAN JOURNAL OF PHYSICS, cilt.97, sa.11, ss.1229-1234, 2019 (SCI-Expanded)
- CCXCV. **Measurement of  $W^{+/-}$ -boson and Z-boson production cross-sections in pp collisions at  $\sqrt{s}=2.76$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.11, 2019 (SCI-Expanded)
- CCXCVI. **Measurement of the inclusive isolated-photon cross section in pp collisions at  $\sqrt{s}=13$  TeV using 36 fb $^{-1}$  of ATLAS data**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2019 (SCI-Expanded)
- CCXCVII. **Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions  $\sqrt{s}=13$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, cilt.123, sa.16, 2019 (SCI-Expanded)

- CCXCVIII. **Measurement of fiducial and differential W+W- production cross-sections 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.10, 2019 (SCI-Expanded)

- CCXCIX. **Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector**

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

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- CCC. **Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.10, 2019 (SCI-Expanded)

- CCCI. **Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at root s=13 TeV with the ATLAS detector**

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

PHYSICAL REVIEW D, cilt.100, sa.5, 2019 (SCI-Expanded)

- CCCII. **Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at root s=13 TeV**

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.

PHYSICAL REVIEW D, cilt.100, sa.5, 2019 (SCI-Expanded)

- CCCIII. **Search for diboson resonances in hadronic final states in 139 fb(-1) of pp collisions at root s=13 TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2019 (SCI-Expanded)

- CCCIV. **Search for high-mass dilepton resonances using 139 fb(-1) of pp collision data collected at root s=13 TeV with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.796, ss.68-87, 2019 (SCI-Expanded)

- CCCV. **Dijet azimuthal correlations and conditional yields in pp and p plus Pb collisions at root S=5.02 TeV with the ATLAS detector**

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

PHYSICAL REVIEW C, cilt.100, sa.3, 2019 (SCI-Expanded)

- CCCVI. **Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2**

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

JOURNAL OF INSTRUMENTATION, cilt.14, 2019 (SCI-Expanded)

- CCCVII. **Search for excited electrons singly produced in proton-proton collisions at root s=13 TeV with the ATLAS experiment at the LHC**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.9, 2019 (SCI-Expanded)

- CCCVIII. **Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton**

**collisions at root s=8 TeV with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.9, 2019 (SCI-Expanded)

**CCCCIX. Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of root s=13TeV with the ATLAS experiment**

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.

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.9, 2019 (SCI-Expanded)

**CCCX. Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at root s=13 TeV with the ATLAS detector**

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

PHYSICAL REVIEW D, cilt.100, sa.3, 2019 (SCI-Expanded)

**CCCXI. Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions root s=13 TeV with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.795, ss.56-75, 2019 (SCI-Expanded)

**CCCXII. Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at root s=13 TeV with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.8, 2019 (SCI-Expanded)

**CCCXIII. Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at root s=13 TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2019 (SCI-Expanded)

**CCCXIV. Observation of Light-by-Light Scattering in Ultraperipheral Pb plus Pb Collisions with the ATLAS Detector**

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

PHYSICAL REVIEW LETTERS, cilt.123, sa.5, 2019 (SCI-Expanded)

**CCCXV. Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at root s=13 TeV with the ATLAS detector**

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

PHYSICAL REVIEW D, cilt.100, sa.1, 2019 (SCI-Expanded)

**CCCXVI. Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb plus Pb Collisions in ATLAS**

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.

PHYSICAL REVIEW LETTERS, cilt.123, sa.4, 2019 (SCI-Expanded)

**CCCXVII. Search for scalar resonances decaying into mu(+)mu(-) in events with and without b-tagged jets produced in proton-proton collisions at root s=13 TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2019 (SCI-Expanded)

**CCCXVIII. Measurement of W +/- Z production cross sections and gauge boson polarisation in pp collisions at root s=13 TeV with the ATLAS detector**

- Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.6, 2019 (SCI-Expanded)
- CCCXIX. **Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.23, 2019 (SCI-Expanded)
- CCCXX. **Observation of electroweak  $W(+/-)Z$  boson pair production in association with two jets in pp collisions at  $\sqrt{s}=13$  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.  
PHYSICS LETTERS B, cilt.793, ss.469-492, 2019 (SCI-Expanded)
- CCCXXI. **Search for invisible Higgs boson decays in vector boson fusion at  $\sqrt{s}=13$  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.  
PHYSICS LETTERS B, cilt.793, ss.499-519, 2019 (SCI-Expanded)
- CCCXXII. **Search for long-lived neutral particles in pp collisions at  $\sqrt{s}=13$  TeV that decay into displaced hadronic jets in the ATLAS calorimeter**  
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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.6, 2019 (SCI-Expanded)
- CCCXXIII. **Modelling radiation damage to pixel sensors in the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
JOURNAL OF INSTRUMENTATION, cilt.14, 2019 (SCI-Expanded)
- CCCXXIV. **Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb<sup>-1</sup> of proton-proton collision data at  $\sqrt{s}=13$  TeV**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CCCXXV. **Search for single production of vector-like quarks decaying into  $Wb$  in pp collisions at  $\sqrt{s}=13$  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, sa.5, 2019 (SCI-Expanded)
- CCCXXVI. **Measurement of  $VH, H \rightarrow b\bar{b}$  production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCCXXVII. **Constraints on mediator-based dark matter and scalar dark energy models using  $\sqrt{s}=13$  TeV pp collision data collected by the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCCXXVIII. **Search for Higgs boson pair production in the  $WW^{(*)}WW^{(*)}$  decay channel using ATLAS data recorded at  $\sqrt{s}=13$  TeV**  
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, sa.5, 2019 (SCI-Expanded)

- CCCXXIX. **Search for top-quark decays  $t \rightarrow Hq$  with 36 fb<sup>-1</sup> of pp collision data at  $\sqrt{s}=13$  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, sa.5, 2019 (SCI-Expanded)
- CCCXXX. **Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at  $\sqrt{s}=13$  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.  
PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CCCXXXI. **Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at  $\sqrt{s}=13$  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, sa.5, 2019 (SCI-Expanded)
- CCCXXXII. **Measurements of inclusive and differential fiducial cross-sections of  $t(\bar{t})\gamma$  production in leptonic final states at  $\sqrt{s}=13$  TeV in ATLAS**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCCXXXIII. **Combinations of single-top-quark production cross-section measurements and vertical  $f(LV)V(t\bar{b})$  determinations at  $\sqrt{s}=7$  and 8 TeV with the ATLAS and CMS experiments**  
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCCXXXIV. **Measurement of the  $t(\bar{t})Z$  and  $t(\bar{t})W$  cross sections in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.  
PHYSICAL REVIEW D, cilt.99, sa.7, 2019 (SCI-Expanded)
- CCCXXXV. **Study of the rare decays of  $B^0$  and  $B^-$  mesons into muon pairs using data collected during 2015 and 2016 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, sa.4, 2019 (SCI-Expanded)
- CCCXXXVI. **Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at  $\sqrt{s}=13$  TeV**  
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.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCCXXXVII. **Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at  $\sqrt{s}=13$  and 8 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, sa.4, 2019 (SCI-Expanded)
- CCCXXXVIII. **Search for Higgs boson pair production in the  $b(\bar{b})WW^*$  decay mode at  $\sqrt{s}=13$  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, sa.4, 2019 (SCI-Expanded)
- CCCXXXIX. **Cross-section measurements of the Higgs boson decaying into a pair of tau-leptons in proton-proton**

**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.

PHYSICAL REVIEW D, cilt.99, sa.7, 2019 (SCI-Expanded)

**CCCXL. Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions 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, sa.4, 2019 (SCI-Expanded)

**CCCXLI. Measurements of inclusive and differential fiducial cross-sections of  $t\bar{t}$  production with additional heavy-flavour jets in proton-proton 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, sa.4, 2019 (SCI-Expanded)

**CCCXLII. Measurement of the top quark mass in the  $t\bar{t} \rightarrow \text{lepton plus jets}$  channel from root s=8 TeV ATLAS data and combination with previous results**

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.

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.4, 2019 (SCI-Expanded)

**CCCXLIII. Search for Higgs boson decays into a pair of light bosons in the  $b\bar{b} \mu\mu$  final state in pp collision 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.

PHYSICS LETTERS B, cilt.790, ss.1-21, 2019 (SCI-Expanded)

**CCCXLIV. Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at root s=8 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.

PHYSICS LETTERS B, cilt.790, ss.595-614, 2019 (SCI-Expanded)

**CCCXLV. Measurements of W and Z boson production in pp collisions at root s=5.02 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.2, 2019 (SCI-Expanded)

**CCCXLVI. Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS**

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.

PHYSICS LETTERS B, cilt.789, ss.167-190, 2019 (SCI-Expanded)

**CCCXLVII. Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the  $H \rightarrow WW^* \rightarrow e \nu \mu \nu$  decay channel 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.

PHYSICS LETTERS B, cilt.789, ss.508-529, 2019 (SCI-Expanded)

**:CCXLVIII. Search for doubly charged scalar bosons decaying into same-sign W boson pairs 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.1, 2019 (SCI-Expanded)

**CCCXLIX. Search for pairs of highly collimated photon-jets 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.

PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)

**CCCL. Search for squarks and gluinos in final states with hadronically decaying tau-leptons, jets, and missing transverse momentum using 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.

PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)

**CCCLI. Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state 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.

PHYSICS LETTERS B, cilt.788, ss.347-370, 2019 (SCI-Expanded)

**CCCLII. Search for long-lived particles in final states with displaced dimuon vertices 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.

PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)

**CCCLIII. Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets 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, sa.1, 2019 (SCI-Expanded)

**CCCLIV. Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at root s=13 TeV**

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

PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)

**CCCLV. Search for Higgs boson pair production in the..WW \* channel using pp collision data recorded at v 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.12, 2018 (SCI-Expanded)

**CCCLVI. Search for resonant W Z production in the fully leptonic final state in proton-proton 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.

PHYSICS LETTERS B, cilt.787, ss.68-88, 2018 (SCI-Expanded)

**CCCLVII. Measurement of the azimuthal anisotropy of charged particles produced in root s NN=5.02 TeV Pb+Pb collisions 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.12, 2018 (SCI-Expanded)

**CCCLVIII. Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at >=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., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2018 (SCI-Expanded)

**CCCLIX. Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at E-**

**beam=4 TeV**

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

JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)

**CCCLX. Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks 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.

PHYSICAL REVIEW LETTERS, cilt.121, sa.21, 2018 (SCI-Expanded)

**CCCLXI. Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb plus Pb Collisions at root s(NN)=5.02 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.

PHYSICAL REVIEW LETTERS, cilt.121, sa.21, 2018 (SCI-Expanded)

**CCCLXII. Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton 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.

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**CCCLXIII. Search for lepton-flavor-violating decays of the Z boson into a  $\tau$  lepton and a light lepton with the ATLAS detector**

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**CCCLXIV. Search for charged Higgs bosons decaying into top and bottom quarks at root s=13TeV with the ATLAS detector**

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**CCCLXV. Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at root s=13 TeV with the ATLAS detector**

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**CCCLXVI. Searches for exclusive Higgs and Z boson decays into J/psi gamma, psi (2S) gamma, and Upsilon(nS) gamma at root s=13 TeV with the ATLAS detector**

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**CCCLXVII. Combined measurement of differential and total cross sections in the H -> gamma gamma and the H -> ZZ\* -> 4l decay channels 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.

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**CCCLXVIII. Constraints on off-shell Higgs boson production and the Higgs boson total width in ZZ -> 4l and ZZ -> 2l2nu final states 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.

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**CCCLXIX. Observation of H -> b(b)over-bar decays and V H production with the ATLAS detector**

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- CCCLXX. **Search for pair production of heavy vectorlike quarks decaying into hadronic final states in pp collisions at root s=13 TeV with the ATLAS detector**

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- CCCLXXI. **Search for Higgs boson pair production in the gamma gamma b(b)over-bar final state with 13TeV pp collision data collected by the ATLAS experiment**

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- CCCLXXII. **Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at root s=13 TeV with the ATLAS detector**

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- CCCLXXIII. **Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb plus Pb collisions at root s(NN)=2.76 TeV with the ATLAS detector**

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- CCCLXXIV. **Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production 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.

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- CCCLXXV. **Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the H -> aa -> 4b channel in pp collisions at root s=13 TeV with the ATLAS detector**

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- CCCLXXVI. **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**

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- CCCLXXVII. **Prompt and non-prompt J/psi elliptic flow in Pb plus Pb collisions at root S-NN=5.02 TeV with the ATLAS detector**

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- CCCLXXVIII. **Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb(-1) of proton-proton collision data at root s=13 TeV with the ATLAS detector**

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- CCCLXXIX. **Search for charged Higgs bosons decaying via H-+/- -> tau(+/-)nu(tau) in the tau plus jets and tau plus lepton final states with 36 fb(-1) of pp collision data recorded at root s=13 TeV with the ATLAS experiment**

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- CCCLXXX. **Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in root s=13 TeV pp collisions with the ATLAS detector**  
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- CLXXXIII. **Measurement of jet fragmentation in Pb plus Pb and pp collisions at root S-NN=5.02 TeV with the ATLAS detector**  
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- CLXXXIV. **Measurements of b-jet tagging efficiency with the ATLAS detector using t(t)over-bar events at root s=13 TeV**  
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- CCLXXXV. **Search for pair production of heavy vector-like quarks decaying into high-(PT) W bosons and top quarks in the lepton-plus-jets final state in pp collisions at root s=13 TeV with the ATLAS detector**  
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- CLXXXVII. **Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at root s=13 TeV with the ATLAS detector**  
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- LXXXVIII. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV**  
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- CCCXCIII. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
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- CDI. **Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at  $\sqrt{s}=7\text{TeV}$**   
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- I. **KAHVE Laboratory Status and Plans**  
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- II. **Permanent Magnet Microwave Discharge Ion Source & Its LEBT Line**  
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## Metrikler

Yayın: 440

Atıf (WoS): 19842

Atıf (Scopus): 23819

H-İndeks (WoS): 111

H-İndeks (Scopus): 114

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International Conference on Neutrinos and Dark Matter (NDM-2020) , Davetli Konuşmacı, Al-Kharijah, Mısır, 2020

3rd International Turkey-Iran Joint Conference on LHC Physics, Katılımcı, İstanbul, Türkiye, 2019

ATLAS Collaboration Week, Katılımcı, Geneve, İsviçre, 2019

ATLAS TRT Week, Davetli Konuşmacı, Geneve, İsviçre, 2019

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Turkish Physical Society 34th International Physics Congress, Katılımcı, Muğla, Türkiye, 2018

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