

## **Prof. ORHAN ÇAKIR**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: L-1893-2015

ScopusID: 57212378721

Yoksis Researcher ID: 7794

### **Education Information**

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1989 - 1995

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1987 - 1989

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1982 - 1986

### **Dissertations**

Doctorate, Yüksek enerjili  $\bar{p}p$  çarpıştırıcılarında leptokuark üretimi, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1994

Postgraduate, Müon-katalizörlü füzyon ve müanik moleküller, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1989

### **Research Areas**

Physics, Natural Sciences

### **Academic Titles / Tasks**

Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2016 - Continues

Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2006 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2000 - Continues

Assistant Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 1997 - Continues

Lecturer PhD, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1995 - Continues

Research Assistant, Ankara University, Fen Fakültesi, Fizik Bölümü, 1987 - Continues

### **Academic and Administrative Experience**

Anabilim Dalı Akademik Kurul Üyesi, Ankara University, Fen Fakültesi, Fizik Bölümü, 2015 - Continues

Deputy Head of Department, Ankara University, Fen Fakültesi, Fizik Bölümü, 2012 - 2015

## Courses

Temel Elektronik, Undergraduate, 2023 - 2024

Fizikte Bilgisayar Uygulamaları, Undergraduate, 2022 - 2023

Yüksek Enerji Fiziğinde Hesaplama Yöntemleri, Postgraduate, 2022 - 2023, 2016 - 2017

UZMANLIK ALAN DERSİ, Doctorate, 2022 - 2023, 2021 - 2022

PARÇACIK ALGIÇLARI FİZİĞİ, Postgraduate, 2021 - 2022

Tez Yönetimi, Doctorate, 2022 - 2023, 2021 - 2022

Elektromanyetik Dalgalar, Undergraduate, 2022 - 2023

Elektromanyetik Teori, Undergraduate, 2021 - 2022

Yüksek enerji Fiziğinde Simülasyon Teknikleri, Doctorate, 2021 - 2022

Teknik Elektrik, Undergraduate, 2017 - 2018, 2016 - 2017

İSTATİSTİK FİZİK VE TERMODİNAMİK, Undergraduate, 2016 - 2017, 2015 - 2016

Computer Programming I, Undergraduate, 2014 - 2015

## Advising Theses

ÇAKIR O., Radyasyon enerji aralığı 1 mev – 1 gev için geant4 ile plastik sintilatör algıcın benzetimi, Postgraduate, S.ÖZŞİMŞEK(Student), 2020

ÇAKIR O., Düşük enerjili demet aktarımında manyetik alan hesabı ve magnet tasarımı, Postgraduate, H.KOLENOĞLU(Student), 2020

ÇAKIR O., Resonant production of up sector new chiral family quark and excited quark with W+BJET final state at large hadron collider, Postgraduate, A.CAN(Student), 2019

ÇAKIR O., Karbon-12 iyon kaynağı ile radyoterapi simülasyon çalışmaları, Postgraduate, M.EMÜR(Student), 2018

ÇAKIR O., Yüksek enerjili hadron çarpıştırıcılarında yüklü higgs bozonu üretimi ve bozunum kanalları, Postgraduate, A.EZGİ(Student), 2017

ÇAKIR O., Radyo frekans dört kutuplu tasarımları ve demet dinamiği hesapları, Postgraduate, H.BETÜL(Student), 2015

ÇAKIR O., D0-D0 karışıntılarında çeşni değiştiren yüksüz akım etkilerinin araştırılması, Postgraduate, H.SAZAK(Student), 2013

ÇAKIR O., Çarpıştırıcılarda dördüncü aile kuarklarının üretimi ve bozunumları, Doctorate, V.ÇETİNKAYA(Student), 2013

ÇAKIR O., Elektron-pozitron çarpıştırıcılarında D mezonların çift üretimi, Postgraduate, B.ZENGİN(Student), 2013

ÇAKIR O., Üçüncü aile sfermionlarının karışım, üretim ve bozunumları, Doctorate, V.ARI(Student), 2012

ÇAKIR O., Büyüük hadron çarpıştırıcısında üçüncü aile sfermionlarının üretimi, Doctorate, S.KUDAY(Student), 2012

ÇAKIR O., Yüksek enerjili çarpıştırıcılarda dikuarkların üretimi, Doctorate, M.ŞAHİN(Student), 2009

ÇAKIR O., Elektron-pozitron çarpıştırıcılarında spin-3/2 uyarılmış leptonların üretimi ve bozunumu, Doctorate, A.OZANSOY(Student), 2009

ÇAKIR O., Elektron-pozitron çarpışmalarında rezonans ve çift üretim süreçleri, Postgraduate, V.ARI(Student), 2007

ÇAKIR O., Üst kuarkin FCNC üretimi, Postgraduate, S.KUDAY(Student), 2005

ÇAKIR O., Elektron-pozitron çarpışmalarında uyarılmış leptonların üretimi, Postgraduate, A.YILMAZ(Student), 2004

ÇAKIR O., Üst kuarkin nadir bozunumları, Postgraduate, M.ŞAHİN(Student), 2003

ÇAKIR O., Üst kuarkin tek üretimi, Postgraduate, B.DİLEÇ(Student), 2001

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

### I. Study of High-Transverse-Momentum Higgs Boson Production in Association with a Vector Boson in the qqbb Final State with the ATLAS Detector

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

Physical Review Letters, vol.132, no.13, 2024 (SCI-Expanded)

### II. Measurement of the Centrality Dependence of the Dijet Yield in Formula Presented Collisions at

### **Formula Presented with the ATLAS Detector**

Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Ting E., White M., Gingrich D., et al.  
Physical Review Letters, vol.132, no.10, 2024 (SCI-Expanded)

### **III. 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**

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

Physical Review Letters, vol.132, no.8, 2024 (SCI-Expanded)

### **IV. Measurement of the production cross-section of $J/\psi$ and $\psi(2S)$ mesons in pp collisions at $s=13$ TeV with the ATLAS detector**

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

European Physical Journal C, vol.84, no.2, 2024 (SCI-Expanded)

### **V. An integrated tool for ion linac design**

ÇAKIR O., Celebi E., Cetinkaya H., Kolenoglu H., Turemen G., Uysal Z., Unel G.

Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)

### **VI. 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**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.849, 2024 (SCI-Expanded)

### **VII. Search for quantum black hole production in lepton + jet final states using proton-proton 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.

Physical Review D, vol.109, no.3, 2024 (SCI-Expanded)

### **VIII. Electron and photon energy calibration with the ATLAS detector using LHC Run 2 data**

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

Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)

### **IX. Observation of $WZ\gamma$ Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**

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

Physical review letters, vol.132, no.2, pp.21802, 2024 (SCI-Expanded)

### **X. 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**

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

European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)

### **XI. Measurement of the ttcross 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. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B. S., et al.

PHYSICS LETTERS B, vol.848, 2024 (SCI-Expanded)

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

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.848, 2024 (SCI-Expanded)

### **XIII. Observation of $W\gamma\gamma$ triboson production in proton-proton collisions at $s=13$ TeV with the ATLAS detector**

- Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.848, 2024 (SCI-Expanded)
- XIV. Search for non-resonant production of semi-visible jets using Run 2 data in ATLAS**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.848, 2024 (SCI-Expanded)
- XV. Search for Dark Photons in Rare Z Boson Decays with the ATLAS Detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physical review letters, vol.131, no.25, pp.251801, 2023 (SCI-Expanded)
- XVI. Combined Measurement of the Higgs Boson Mass from the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$  Decay Channels with the ATLAS Detector Using  $\sqrt{s}=7, 8,$  and  $13$  TeV pp Collision Data**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
 Physical review letters, vol.131, no.25, pp.251802, 2023 (SCI-Expanded)
- XVII. Search for exclusive Higgs and Z boson decays to  $\omega\gamma$  and Higgs boson decays to  $K*\gamma$  with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.847, 2023 (SCI-Expanded)
- XVIII. Search for heavy long-lived multi-charged particles in the full LHC Run 2 pp collision data at  $s=13$  TeV using the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.847, 2023 (SCI-Expanded)
- XIX. Measurement of the Higgs boson mass with  $H \rightarrow \gamma\gamma$  decays in  $140 \text{ fb}^{-1}$  of  $s=13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.847, 2023 (SCI-Expanded)
- XX. Search for pairs of muons with small displacements in pp collisions at  $s=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.846, 2023 (SCI-Expanded)
- XXI. Measurement of the cross-sections of the electroweak and total production of a  $Z\gamma$  pair in association with two jets in pp collisions at  $s=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.846, 2023 (SCI-Expanded)
- XXII. Evidence of off-shell Higgs boson production from ZZ leptonic decay channels and constraints on its total width with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.846, 2023 (SCI-Expanded)
- XXIII. Comparison of inclusive and photon-tagged jet suppression in 5.02 TeV Pb+Pb collisions with ATLAS**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.846, 2023 (SCI-Expanded)
- XXIV. Observation of Single-Top-Quark Production in Association with a Photon Using the ATLAS Detector**

- Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physical review letters, vol.131, no.18, pp.181901, 2023 (SCI-Expanded)
- XXV. Fast b-tagging at the high-level trigger of the ATLAS experiment in LHC Run 3**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
Journal of Instrumentation, vol.18, no.11, 2023 (SCI-Expanded)
- XXVI. Tools for estimating fake/non-prompt lepton backgrounds with the ATLAS detector at the LHC**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
Journal of Instrumentation, vol.18, no.11, 2023 (SCI-Expanded)
- XXVII. Projected sensitivity to dimension-6 triple gauge couplings at the FCC-hh**  
ARI V., Cetinkaya V., KÖKSAL M., ÇAKIR O.  
Nuclear Physics B, vol.996, 2023 (SCI-Expanded)
- XXVIII. Search for pair production of third-generation leptoquarks decaying into a bottom quark and a  $\tau$ -lepton with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., Acharya B., et al.  
European Physical Journal C, vol.83, no.11, 2023 (SCI-Expanded)
- XXIX. Investigating the single production of vectorlike quarks decaying into a top quark and W boson through hadronic channels at the HL-LHC**  
CANBAY A. C., ÇAKIR O.  
Physical Review D, vol.108, no.9, 2023 (SCI-Expanded)
- XXX. Search for a new pseudoscalar decaying into a pair of muons in events with a top-quark pair at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.  
PHYSICAL REVIEW D, no.9, 2023 (SCI-Expanded)
- XXXI. Measurement of Suppression of Large-Radius Jets and Its Dependence on Substructure in Pb+Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV with the ATLAS Detector**  
Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
Physical Review Letters, vol.131, no.17, 2023 (SCI-Expanded)
- XXXII. Observation of an Excess of Dicharmonium Events in the Four-Muon Final State with the ATLAS Detector**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physical review letters, vol.131, no.15, pp.151902, 2023 (SCI-Expanded)
- XXXIII. Observation of the  $\gamma\gamma \rightarrow \tau\tau$  Process in Pb+Pb Collisions and Constraints on the  $\tau$ -Lepton Anomalous Magnetic Moment with the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physical review letters, vol.131, no.15, pp.151802, 2023 (SCI-Expanded)
- XXXIV. 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**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Journal of High Energy Physics, vol.2023, no.10, 2023 (SCI-Expanded)
- XXXV. 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, vol.83, no.10, 2023 (SCI-Expanded)

- XXXVI. Search for leptoquarks decaying into the  $b\tau$  final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.10, 2023 (SCI-Expanded)
- XXXVII. 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**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.10, 2023 (SCI-Expanded)
- XXXVIII. Integrated and differential fiducial cross-section measurements for the vector boson fusion production of the Higgs boson in the  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  decay channel at 13 TeV with the ATLAS detector**  
 Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
*Physical Review D*, vol.108, no.7, 2023 (SCI-Expanded)
- XXXIX. Search for nonresonant pair production of Higgs bosons in the  $\langle i>b </i>(\langle i>b </i>) over-bar </i>b </i>(\langle i>b </i>) over-bar$  final state in  $\langle i>pp </i>$  collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
 Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.  
*PHYSICAL REVIEW D*, vol.108, no.5, 2023 (SCI-Expanded)
- XL. 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.  
*European Physical Journal C*, vol.83, no.9, 2023 (SCI-Expanded)
- XLI. Anomaly detection search for new resonances decaying into a Higgs boson and a generic new particle X in hadronic final states using  $\sqrt{s}=13$  TeV  $\langle i>pp </i>$  collisions with the ATLAS detector**  
 Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.  
*PHYSICAL REVIEW D*, vol.108, no.5, 2023 (SCI-Expanded)
- XLII. 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**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.  
*European Physical Journal C*, vol.83, no.9, 2023 (SCI-Expanded)
- XLIII. Measurements of differential cross sections of Higgs boson production through gluon fusion in the  $H \rightarrow WW^* \rightarrow e\nu\mu\nu$  final state at  $\sqrt{s}=13$  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*, no.9, 2023 (SCI-Expanded)
- XLIV. Strong Constraints on Jet Quenching in Centrality-Dependent p+Pb Collisions at 5.02 TeV from ATLAS**  
 Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
*Physical Review Letters*, vol.131, no.7, 2023 (SCI-Expanded)
- XLV. Test of CP Invariance in Higgs Boson Vector-Boson-Fusion Production Using the  $H \rightarrow \gamma\gamma$  Channel with the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Physical review letters*, vol.131, no.6, pp.61802, 2023 (SCI-Expanded)
- XLVI. 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**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.

- Physical review letters, vol.131, no.6, pp.61803, 2023 (SCI-Expanded)
- XLVII. Measurement of the charge asymmetry in top-quark pair production in association with a photon with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- XLVIII. Search for pair-production of vector-like quarks in pp collision events at  $s=13$  TeV with at least one leptonically decaying Z boson and a third-generation quark with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- XLIX. Constraints on the Higgs boson self-coupling from single- and double-Higgs production with the ATLAS detector using pp collisions at  $s=13$  TeV**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- L. 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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- LI. Measurement of the polarisation of W bosons produced in top-quark decays using dilepton events at  $s=13$  TeV with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- LII. Observation of gauge boson joint-polarisation states in  $W^\pm Z$  production from pp collisions at  $s=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.843, 2023 (SCI-Expanded)
- LIII. Studies of the muon momentum calibration and performance of the ATLAS detector with  $\langle i\rangle pp \langle /i\rangle$  collisions at  $\sqrt{s}=13$  TeV**  
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.83, no.8, 2023 (SCI-Expanded)
- LIV. Measurements of  $W+W-$  production in decay topologies inspired by searches for electroweak supersymmetry**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)
- LV. Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139 fb $^{-1}$  of ATLAS proton-proton collision data at  $\sqrt{s}=13$  TeV**  
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C., et al.  
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)
- LVI. Measurement of the inclusive  $\langle i\rangle t \langle /i\rangle (\langle i\rangle \bar{t} \langle /i\rangle)$  over-bar production cross section in the lepton plus jets channel in  $\langle i\rangle pp \langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s \langle /i\rangle}=7$  TeV with the ATLAS detector using support vector machines**  
Jackson P., Oliver J., Petridis A., Qureshi A., Sharma A., White M., Cairo V., Jain V., Swift S., Gingrich D., et al.  
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)

- LVII. **Search for pair-produced vector-like top and bottom partners in events with large missing transverse momentum in pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*European Physical Journal C*, vol.83, no.8, 2023 (SCI-Expanded)
- LVIII. **Measurement of the production of a W boson in association with a charmed hadron in  $\langle i \rangle pp \langle /i \rangle$  collisions at  $p\ s=13$  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.  
*PHYSICAL REVIEW D*, vol.108, no.3, 2023 (SCI-Expanded)
- LIX. **Search for an axion-like particle with forward proton scattering in association with photon pairs at ATLAS**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)
- LX. **Search for the charged-lepton-flavor-violating decay  $Z \rightarrow e\mu$  in pp collisions at  $\sqrt{s} = 13$  TeV ATLAS detector**  
 Jackson P., Kong A., Potti H., Ruggeri T., Sharma A., White M., Gingrich D., Lindon J., Nishu N., Pinfold J., et al.  
*Physical Review D*, vol.108, no.3, 2023 (SCI-Expanded)
- LXI. **Evidence for the charge asymmetry in (Formula presented.) production at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.8, 2023 (SCI-Expanded)
- LXII. **Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using  $H ? \langle i \rangle WW^* \langle /i \rangle ? \langle i \rangle e? \langle /i \rangle \mu \langle i \rangle ? \langle /i \rangle$  decays in  $\langle i \rangle pp \langle /i \rangle$  collisions at  $p\ s=13$  TeV with the ATLAS detector ffi**  
 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*, vol.108, no.3, 2023 (SCI-Expanded)
- LXIII. **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*, vol.108, no.3, 2023 (SCI-Expanded)
- LXIV. **Search for flavor-changing neutral-current couplings between the top quark and the Z boson with proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
 Jackson P., Kong A., Potti H., Ruggeri T., Sharma A., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.  
*Physical Review D*, vol.108, no.3, 2023 (SCI-Expanded)
- LXV. **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.  
*Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, vol.842, 2023 (SCI-Expanded)
- LXVI. **Combination of searches for invisible decays of the Higgs boson using 139 fb $-1$  of proton-proton collision data at  $s=13$  TeV collected with the ATLAS experiment**  
 Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
*Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, vol.842, 2023 (SCI-Expanded)
- LXVII. **Searches for lepton-flavour-violating decays of the Higgs boson into  $e\tau$  and  $\mu\tau$  in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)

- LXVIII. **Search for supersymmetry in final states with missing transverse momentum and three or more b-jets in  $139 \text{ fb}^{-1}$  of proton-proton collisions at  $\sqrt{s}=13 \text{ TeV}$  with the ATLAS detector**  
 Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
*EUROPEAN PHYSICAL JOURNAL C*, vol.83, no.7, 2023 (SCI-Expanded)
- LXIX. **Search for new phenomena in final states with photons, jets and missing transverse momentum in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)
- LXX. **Measurement of exclusive pion pair production in proton-proton collisions at  $\sqrt{s}=7\text{TeV}$  with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.  
*European Physical Journal C*, vol.83, no.7, 2023 (SCI-Expanded)
- LXXI. **Search for excited  $\tau$ -leptons and leptoquarks in the final state with  $\tau$ -leptons and jets in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.6, 2023 (SCI-Expanded)
- LXXII. **Search for dark matter produced in association with a single top quark and an energetic  $W$  boson in  $\sqrt{s}=13 \text{ TeV}$   $pp$  collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.  
*EUROPEAN PHYSICAL JOURNAL C*, vol.83, no.7, 2023 (SCI-Expanded)
- LXXIII. **Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at  $\sqrt{s}=7$  and  $8 \text{ TeV}$**   
 Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*JOURNAL OF HIGH ENERGY PHYSICS*, vol.2023, no.7, 2023 (SCI-Expanded)
- LXXIV. **Search for pair-produced scalar and vector leptoquarks decaying into third-generation quarks and first- or second-generation leptons in pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.6, 2023 (SCI-Expanded)
- LXXV. **Search for new phenomena in multi-body invariant masses in events with at least one isolated lepton and two jets using  $\sqrt{s} = 13 \text{ TeV}$  proton-proton collision data collected by the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)
- LXXVI. **Measurement of the properties of Higgs boson production at  $\sqrt{s} = 13 \text{ TeV}$  in the  $H \rightarrow \gamma\gamma$  channel using  $139 \text{ fb}^{-1}$  of pp collision data with the ATLAS experiment**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)
- LXXVII. **Inclusive-photon production and its dependence on photon isolation in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  using  $139 \text{ fb}^{-1}$  of ATLAS data**  
 Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.  
*Journal of High Energy Physics*, vol.2023, no.7, 2023 (SCI-Expanded)
- LXXVIII. **Search for third-generation vector-like leptons in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS**

**detector**

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

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

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

**LXXX. Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

**LXXXI. Measurement of cross sections for production of a Z boson in association with a flavor-inclusive or doubly b-tagged large-radius jet in proton-proton collisions at p s=13 TeV with the ATLAS experiment**

Jackson P., Kong A., Oliver J., Ruggeri T., Sharma A., White M., Jain V., Swift S., Gingrich D., Pinfold J., et al.

PHYSICAL REVIEW D, vol.108, no.1, 2023 (SCI-Expanded)

**LXXXII. 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**

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

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

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

**LXXXIV. 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**

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**LXXXV. 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**

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

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

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**LXXXVII. Search for doubly charged Higgs boson production in multi-lepton final states using 139 fb $<sup>-1</sup>$  of proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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

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**LXXXVIII. Search for high-mass W $\gamma$  and Z $\gamma$  resonances using hadronic W/Z boson decays from 139 fb  $-1$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- LXXXIX. **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**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.6, 2023 (SCI-Expanded)
- XC. **Search for dark photons from Higgs boson decays via ZH production with a photon plus missing transverse momentum signature from pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCI. **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.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCII. **Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in p s=13 TeV pp collisions**  
 Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.  
 PHYSICAL REVIEW D, vol.108, no.1, 2023 (SCI-Expanded)
- XCIII. **A search for heavy Higgs bosons decaying into vector bosons in same-sign two-lepton final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCIV. **Measurement of the CP properties of Higgs boson interactions with  $\tau$ -leptons 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, vol.83, no.7, 2023 (SCI-Expanded)
- XCV. **Search for a new  $Z'$  gauge boson in  $4\mu$  events with the ATLAS experiment**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCVI. **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.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCVII. **ATLAS flavour-tagging algorithms for the LHC Run 2  $< i > pp </ i >$  collision dataset**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.83, no.7, 2023 (SCI-Expanded)
- XCVIII. **Search for  $tt^*$   $H/ A \rightarrow tt^*$  production in the multilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XCIX. **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**

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

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

**C. 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.

Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)

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

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

EUROPEAN PHYSICAL JOURNAL C, vol.83, no.7, 2023 (SCI-Expanded)

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

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**CIII. Search for Higgs boson pair production in association with a vector boson in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

European Physical Journal C, vol.83, no.6, 2023 (SCI-Expanded)

**CIV. Measurements of observables sensitive to colour reconnection in  $t\bar{t}$  events with the ATLAS detector at  $\sqrt{s} = 13$  TeV**

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

European Physical Journal C, vol.83, no.6, 2023 (SCI-Expanded)

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

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**CVI. Cross-section measurements for the production of a Z boson in association with high-transverse-momentum jets in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**CVII. Measurement of the  $t\bar{t}$  production cross-section in pp collisions at  $\sqrt{s} = 5.02$  TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)

**CVIII. 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.

European Physical Journal C, vol.83, no.6, 2023 (SCI-Expanded)

**CIX. 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**

- Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CX. Measurement of the top-quark mass using a leptonic invariant mass in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXI. A search for new resonances in multiple final states with a high transverse momentum Z boson in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXII. 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.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXIII. Measurement of electroweak Z( $v\bar{v}$ )  $\gamma\gamma$  production and limits on anomalous quartic gauge couplings in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXIV. Constraints on spin-0 dark matter mediators and invisible Higgs decays using ATLAS 13 TeV pp collision data with two top quarks and missing transverse momentum in the final state**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.  
 European Physical Journal C, vol.83, no.6, 2023 (SCI-Expanded)
- CXV. Measurement of Z $\gamma\gamma$  production in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 European Physical Journal C, vol.83, no.6, 2023 (SCI-Expanded)
- CXVI. Observation of four-top-quark production in the multilepton final state with the ATLAS detector**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.83, no.6, 2023 (SCI-Expanded)
- CXVII. Search for light long-lived neutral particles that decay to collimated pairs of leptons or light hadrons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXVIII. Measurement of the total and differential Higgs boson production cross-sections at  $\sqrt{s} = 13$  TeV with the ATLAS detector by combining the  $H \rightarrow ZZ^* \rightarrow 4\ell$  and  $H \rightarrow \gamma\gamma$  decay channels**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)
- CXIX. Measurement of substructure-dependent jet suppression in Pb+Pb collisions at 5.02 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.  
 Physical Review C, vol.107, no.5, 2023 (SCI-Expanded)
- CXX. Measurement of the total cross section and  $\rho$ -parameter from elastic scattering in pp collisions at**

- $\sqrt{s}=13$  TeV with the ATLAS detector**
- Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 European Physical Journal C, vol.83, no.5, 2023 (SCI-Expanded)
- CXXI. **Production of  $\Upsilon(\Lambda nS)$  mesons in Pb plus Pb and  $\langle i\rangle pp\langle /i\rangle$  collisions at 5.02 TeV**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.  
 PHYSICAL REVIEW C, vol.107, no.5, 2023 (SCI-Expanded)
- CXXII. **Correlations between flow and transverse momentum in Xe + Xe and Pb + Pb collisions at the LHC with the ATLAS detector: A probe of the heavy-ion initial state and nuclear deformation**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. A., et al.  
 Physical Review C, vol.107, no.5, 2023 (SCI-Expanded)
- CXXIII. **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., et al.  
 European Physical Journal C, vol.83, no.5, 2023 (SCI-Expanded)
- CXXIV. **Measurement of muon pairs produced via  $\gamma\gamma$  scattering in nonultraperipheral Pb plus Pb collisions at  $\sqrt{\langle i\rangle s_{NN}}=5.02$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 PHYSICAL REVIEW C, vol.107, no.5, 2023 (SCI-Expanded)
- CXXV. **Differential  $t\bar{t}$  cross-section measurements using boosted top quarks in the all-hadronic final state with 139 fb $^{-1}$  of ATLAS data**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
 Journal of High Energy Physics, vol.2023, no.4, 2023 (SCI-Expanded)
- CXXVI. **Observation of electroweak production of two jets and a Z-boson pair**  
 Aad, Et Al. G., Collaboration A., Abbott , Abbott D., Yıldız H., Türk Çakır İ., Kuday S., Çakır O.  
 NATURE PHYSICS, vol.19, pp.237-253, 2023 (SCI-Expanded)
- CXXVII. **Search for type-III seesaw heavy leptons in leptonic final states in  $\langle i\rangle pp\langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s}=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.82, no.11, 2022 (SCI-Expanded)
- CXXVIII. **Measurement of the polarisation of single top quarks and antiquarks produced in the  $\langle i\rangle t\bar{t}\langle /i\rangle$ -channel at  $\sqrt{\langle i\rangle s}=13$  TeV and bounds on the  $\langle i\rangle tWb\langle /i\rangle$  dipole operator from the ATLAS experiment**  
 Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.11, 2022 (SCI-Expanded)
- CXXIX. **Investigating top-Higgs FCNC couplings at the FCC-hh**  
 Ozsimek O. M., Arı V., Çakır O.  
 NUCLEAR PHYSICS B, vol.983, 2022 (SCI-Expanded)
- CXXX. **Search for Higgs boson pair production in the two bottom quarks plus two photons final state in  $\langle i\rangle pp\langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s}=13$  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, vol.106, no.5, 2022 (SCI-Expanded)
- CXXXI. **Observation of  $\langle i\rangle WWW\langle /i\rangle$  Production in  $\langle i\rangle pp\langle /i\rangle$  Collisions at  $\sqrt{\langle i\rangle s}=13$  TeV with the**

**ATLAS Detector**

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

PHYSICAL REVIEW LETTERS, vol.129, no.6, 2022 (SCI-Expanded)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)

- CXXXIII. **Measurements of jet observables sensitive to  $b$ -quark fragmentation in ( $t\bar{t}$ ) over-bar events at the LHC with the ATLAS detector**

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

PHYSICAL REVIEW D, vol.106, no.3, 2022 (SCI-Expanded)

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

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

PHYSICAL REVIEW D, vol.106, no.3, 2022 (SCI-Expanded)

- CXXXV. **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.

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.8, 2022 (SCI-Expanded)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)

- CXXXVII. **Measurements of the Higgs boson inclusive and differential fiducial cross-sections in the diphoton decay channel with pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)

- CXXXVIII. **Study of  $B_c \rightarrow J/\psi D_s^+$  and  $B_c \rightarrow J/\psi D_s^* \rightarrow J/\psi D_s^*$  decays in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)

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

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

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

- CXLI. **A detailed map of Higgs boson interactions by the ATLAS experiment ten years after the discovery**  
 Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.  
*Nature*, vol.607, no.7917, pp.52-59, 2022 (SCI-Expanded)
- CXLII. **Search for long-lived charginos based on a disappearing-track signature using 136 fb<sup>-1</sup> of  $\langle i\rangle pp\langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
*EUROPEAN PHYSICAL JOURNAL C*, vol.82, no.7, 2022 (SCI-Expanded)
- CXLIII. **Two-particle Bose-Einstein correlations in  $\langle i\rangle pp\langle /i\rangle$  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*, vol.82, no.7, 2022 (SCI-Expanded)
- CXLIV. **Constraints on Higgs boson properties using  $\langle i\rangle WW\langle /i\rangle^*(\rightarrow \langle i\rangle e\langle /i\rangle \nu\mu\nu)\langle i\rangle jj\langle /i\rangle$  production in 36.1 fb<sup>-1</sup> of  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  TeV  $\langle i\rangle pp\langle /i\rangle$  collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*EUROPEAN PHYSICAL JOURNAL C*, vol.82, no.7, 2022 (SCI-Expanded)
- CXLV. **Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb plus Pb collisions at 5.02 TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*PHYSICS LETTERS B*, vol.829, 2022 (SCI-Expanded)
- CXLVI. **Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*PHYSICS LETTERS B*, vol.829, 2022 (SCI-Expanded)
- CXLVII. **Measurements of azimuthal anisotropies of jet production in Pb collisions at  $\sqrt{\langle i\rangle s\langle /i\rangle} = 5.02$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*PHYSICAL REVIEW C*, vol.105, no.6, 2022 (SCI-Expanded)
- CXLVIII. **Measurement of Higgs boson decay into  $\langle i\rangle b\langle /i\rangle$ -quarks in associated production with a top-quark pair in  $\langle i\rangle pp\langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*JOURNAL OF HIGH ENERGY PHYSICS*, vol.2022, no.6, 2022 (SCI-Expanded)
- CXLIX. **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  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  TeV**  
 Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.  
*JOURNAL OF HIGH ENERGY PHYSICS*, vol.2022, no.6, 2022 (SCI-Expanded)
- CL. **Search for neutral long-lived particles in  $\langle i\rangle pp\langle /i\rangle$  collisions at  $\sqrt{\langle i\rangle s\langle /i\rangle} = 13$  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.  
*JOURNAL OF HIGH ENERGY PHYSICS*, vol.2022, no.6, 2022 (SCI-Expanded)
- CLI. **Search for resonant pair production of Higgs bosons in the  $\langle i\rangle b\langle /i\rangle(\langle i\rangle b\langle /i\rangle)$  over-**

**bar<math>b</math><math>b</math><math>(<math>b</math><math>b</math><math>)</math> over-bar final state using <math>pp</math> collisions at <math>\sqrt{s}=13\text{ TeV}</math> 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, vol.105, no.9, 2022 (SCI-Expanded)

**CLII. Determination of the parton distribution functions of the proton using diverse ATLAS data from <math>pp</math> collisions at <math>\sqrt{s}=7, 8 \text{ and } 13\text{ TeV}</math>**

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

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.5, 2022 (SCI-Expanded)

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

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

PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)

**CLIV. Constraints on Higgs boson production with large transverse momentum using <math>H \rightarrow b</math><math>(<math>b</math><math>b</math><math>)</math> over-bar decays in the ATLAS detector**

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

PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)

**CLV. Measurement of the energy asymmetry in <math>t(t)\overline{t}</math> production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework**

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

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.4, 2022 (SCI-Expanded)

**CLVI. Search for flavour-changing neutral-current interactions of a top quark and a gluon in <math>pp</math> collisions at <math>\sqrt{s}=13\text{ TeV}</math> with the ATLAS detector**

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

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.4, 2022 (SCI-Expanded)

**CLVII. 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 H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.3, 2022 (SCI-Expanded)

**CLVIII. 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 <math>pp</math> collision data at <math>\sqrt{s}=13\text{ TeV}</math>**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.3, 2022 (SCI-Expanded)

**CLIX. Measurement of the energy response of the ATLAS calorimeter to charged pions from <math>W \pm \tau \pm \pi</math> (<math>\rightarrow \pi \pm \tau \pm v</math>) 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.

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.3, 2022 (SCI-Expanded)

**CLX. 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.

- EUROPEAN PHYSICAL JOURNAL C, vol.82, no.2, 2022 (SCI-Expanded)
- CLXI. Search for new phenomena in three- or four-lepton events in pp collisions at  $\sqrt{s} = 13\text{TeV}$  with the ATLAS detector**
- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abramowicz H., Abreu H., et al.
- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.824, 2022 (SCI-Expanded)
- CLXII. Measurement of the  $c\bar{c}$ -jet mistagging efficiency in  $t\bar{t}$  over-bar events using  $pp$  collision data at  $\sqrt{s}=13\text{ TeV}$  collected with the ATLAS detector**
- Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
- EUROPEAN PHYSICAL JOURNAL C, vol.82, no.1, 2022 (SCI-Expanded)
- CLXIII. Search for heavy particles in the b-tagged dijet mass distribution with additional b-tagged jets in proton-proton collisions at  $p\sqrt{s}=13\text{ TeV}$  with the ATLAS experiment**
- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
- PHYSICAL REVIEW D, vol.105, no.1, 2022 (SCI-Expanded)
- CLXIV. 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.
- EUROPEAN PHYSICAL JOURNAL C, vol.82, no.1, 2022 (SCI-Expanded)
- CLXV. Studying Same-Sign Top Pair Production through Top-Higgs FCNC Interactions at the HL-LHC**
- Ozsimek O., Arı V., Çakır O.
- Advances in High Energy Physics, vol.2022, 2022 (SCI-Expanded)
- CLXVI. Search for Higgs boson decays into a pair of pseudoscalar particles in the  $bb\mu\mu$  final state with the ATLAS detector in  $pp$  collisions at  $\sqrt{s}=13\text{ TeV}$**
- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
- PHYSICAL REVIEW D, vol.105, no.1, 2022 (SCI-Expanded)
- CLXVII. 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, vol.17, no.1, 2022 (SCI-Expanded)
- CLXVIII. Search for exotic decays of the Higgs boson into  $b\bar{b}$  over-bar and missing transverse momentum in  $pp$  collisions at  $\sqrt{s}=13\text{ TeV}$  with the ATLAS detector**
- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
- JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.1, 2022 (SCI-Expanded)
- CLXIX. Search for Lepton-Flavor Violation in Z -Boson Decays with  $\tau$  Leptons with the ATLAS Detector**
- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
- Physical Review Letters, vol.127, no.27, 2021 (SCI-Expanded)
- CLXX. Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum in pp collisions at root  $s=13\text{ TeV}$  with the ATLAS detector**
- Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
- PHYSICAL REVIEW D, vol.104, no.11, 2021 (SCI-Expanded)
- CLXXI. Measurement of b-quark fragmentation properties in jets using the decay  $B-+/- \rightarrow J/\psi K-/-$  in pp collisions at root  $s=13\text{ TeV}$  with the ATLAS detector**
- Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abramowicz H., Abreu H., et al.
- JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.12, 2021 (SCI-Expanded)

- CLXXII. Search for new phenomena in pp collisions in final states with tau leptons, b -jets, and missing transverse momentum with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abramowicz H., Abreu H., et al.  
 Physical Review D, vol.104, no.11, 2021 (SCI-Expanded)
- CLXXIII. Configuration and performance of the ATLAS b-jet triggers in Run 2**  
 Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.81, no.12, 2021 (SCI-Expanded)
- CLXXIV. Search for chargino-neutralino pair production in final states with three leptons 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., Abramowicz H., Abreu H., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.81, no.12, 2021 (SCI-Expanded)
- CLXXV. Single production of vectorlike Y quarks at the HL-LHC**  
 Cetinkaya V., OZANSOY A., ARI V., ÖZŞİMŞEK Ö. M., ÇAKIR O.  
 Nuclear Physics B, vol.973, 2021 (SCI-Expanded)
- CLXXVI. Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at root 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, no.11, 2021 (SCI-Expanded)
- CLXXVII. 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, vol.81, no.11, 2021 (SCI-Expanded)
- CLXXVIII. The Large Hadron-Electron Collider at the HL-LHC**  
 Agostini P., Aksakal H., Alekhin S., Allport P. P., Andari N., Andre K. D. J., Angal-Kalinin D., Antusch S., Aperio Bella L., Apolinario L., et al.  
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.48, no.11, 2021 (SCI-Expanded)
- CLXXIX. Measurement of the t(t)over-bar over-bart(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, no.11, 2021 (SCI-Expanded)
- CLXXX. Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2021 (SCI-Expanded)
- CLXXXI. 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, no.11, 2021 (SCI-Expanded)
- CLXXXII. Search for resonances decaying into photon pairs in 139 fb(-1) 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, vol.822, 2021 (SCI-Expanded)

- CLXXXIII. **Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*Journal of High Energy Physics*, vol.2021, no.10, 2021 (SCI-Expanded)
- CLXXXIV. **Search for New Phenomena in Final States with Two Leptons and One or No b -Tagged Jets at  $s = 13$  TeV Using the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.  
*Physical Review Letters*, vol.127, no.14, 2021 (SCI-Expanded)
- CLXXXV. **Search for dark matter produced in association with a single top quark in  $\sqrt{s}=13$  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*, vol.81, no.10, 2021 (SCI-Expanded)
- CLXXXVI. **Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at  $s=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, vol.819, 2021 (SCI-Expanded)
- CLXXXVII. **Exclusive dimuon production in ultraperipheral Pb + Pb collisions at  $\sqrt{s_{NN}}= 5.02$  TeV with ATLAS**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*Physical Review C*, vol.104, no.2, 2021 (SCI-Expanded)
- CLXXXVIII. **Search for bottom-squark pair production in pp collision events at  $s = 13$  TeV with hadronically decaying  $\tau$  -leptons, b -jets, and missing transverse momentum using the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*Physical Review D*, vol.104, no.3, 2021 (SCI-Expanded)
- CLXXXIX. **Measurement of single top-quark production in association with a W boson in the single-lepton channel at  $\sqrt{s}=8$ TeV 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*, vol.81, no.8, 2021 (SCI-Expanded)
- CXC. **Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at  $\sqrt{s}=13$  TeV 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*, vol.81, no.8, 2021 (SCI-Expanded)
- CXCI. **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., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*European Physical Journal C*, vol.81, no.8, 2021 (SCI-Expanded)
- CXCII. **Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*Journal of Instrumentation*, vol.16, no.8, 2021 (SCI-Expanded)
- CXCIII. **Search for Displaced Leptons in  $s = 13$  TeV pp Collisions with the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

- Physical Review Letters, vol.127, no.5, 2021 (SCI-Expanded)
- CXCIV. **Investigation of charged Higgs boson in the bottom and top quark decay channel at the FCC-hh**  
 ÇAKIR İ. T., Cakir O., Denizli H., Senol A., Yilmaz A.
- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.818, 2021 (SCI-Expanded)
- CXCV. **Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at  $\sqrt{s} = 13$  TeV**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of Instrumentation, vol.16, no.7, 2021 (SCI-Expanded)
- CXCVI. **Test of the universality of tau and mu lepton couplings in W-boson decays with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- NATURE PHYSICS, vol.17, no.7, pp.813-833, 2021 (SCI-Expanded)
- CXCVII. **Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at  $\sqrt{s}=13$  with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- European Physical Journal C, vol.81, no.7, 2021 (SCI-Expanded)
- CXCVIII. **Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
- Physical Review C, vol.104, no.1, 2021 (SCI-Expanded)
- CXCIX. **Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2021, no.7, 2021 (SCI-Expanded)
- CC. **A search for the decays of stopped long-lived particles at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2021, no.7, 2021 (SCI-Expanded)
- CCI. **The ATLAS fast TracKer system**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of Instrumentation, vol.16, no.7, 2021 (SCI-Expanded)
- CCII. **Search for supersymmetry in events with four or more charged leptons in  $139 \text{ fb}^{-1}$  of  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2021, no.7, 2021 (SCI-Expanded)
- CCIII. **Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Zeid O. S. A., Abraham N., Abramowicz H., et al.
- NATURE PHYSICS, vol.17, no.7, pp.819-842, 2021 (SCI-Expanded)
- CCIV. **Determination of the parton distribution functions of the proton from ATLAS measurements of differential  $W^\pm$  and Z boson production in association with jets**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2021, no.7, 2021 (SCI-Expanded)
- CCV. **Measurement of the relative  $Bc^\pm / B^\pm$  production cross section with the ATLAS detector at  $s = 8$  TeV**  
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- Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
Physical Review D, vol.104, no.1, 2021 (SCI-Expanded)
- CCVI. 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, vol.81, no.7, 2021 (SCI-Expanded)
- CCVII. Search for charged Higgs bosons decaying into a top quark and a bottom quark at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.6, 2021 (SCI-Expanded)
- CCVIII. Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.6, 2021 (SCI-Expanded)
- CCIX. Search for trilepton resonances from chargino and neutralino pair production in  $s = 13$  TeV pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review D, vol.103, no.11, 2021 (SCI-Expanded)
- CCX. Measurements of  $W + W^- \rightarrow \geq 1$  jet production cross-sections in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.6, 2021 (SCI-Expanded)
- CCXI. Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a  $\tau$ -lepton in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.6, 2021 (SCI-Expanded)
- CCXII. Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at  $\sqrt{s}=13$  TeV**  
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, vol.81, no.6, 2021 (SCI-Expanded)
- CCXIII. Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at  $s = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review D, vol.103, no.11, 2021 (SCI-Expanded)
- CCXIV. Observation of photon-induced  $W+W-$  production in pp collisions at  $s=13$  TeV using the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.816, 2021 (SCI-Expanded)
- CCXV. Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at  $s=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N.,

- Abramowicz H., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.816, 2021 (SCI-Expanded)
- CCXVI. Search for new phenomena in final states with b-jets and missing transverse momentum in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2021, no.5, 2021 (SCI-Expanded)
- CCXVII. Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the  $\ell\ell bb$  and  $\ell\ell WW$  final states in pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.81, no.5, 2021 (SCI-Expanded)
- CCXVIII. CutLang as an analysis description language for introducing students to analyses in particle physics**  
 Adiguzel A., Cakir O., Kaya Ü., Ozcan V. E., Ozturk S., Sekmen S., ÇAKIR İ. T., Unel G.  
 EUROPEAN JOURNAL OF PHYSICS, vol.42, no.3, 2021 (SCI-Expanded)
- CCXIX. Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton–proton collisions**  
 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, vol.81, no.4, 2021 (SCI-Expanded)
- CCXX. 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., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.81, no.4, 2021 (SCI-Expanded)
- CCXXI. Measurement of the CP-violating phase  $\phi_S$  in  $Bs0 \rightarrow J/\psi \phi$  decays in ATLAS at 13 TeV**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 European Physical Journal C, vol.81, no.4, 2021 (SCI-Expanded)
- CCXXII. Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2021, no.4, 2021 (SCI-Expanded)
- CCXXIII. Search for heavy resonances decaying into a pair of Z bosons in the  $\ell+\ell-\ell' +\ell'$  - and  $\ell+\ell-vv^-$  final states using 139 fb<sup>-1</sup> of proton–proton 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., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.81, no.4, 2021 (SCI-Expanded)
- CCXXIV. Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2021, no.4, 2021 (SCI-Expanded)
- CCXXV. Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into  $W \pm W_a$ " or  $Z Z$  in Fully Hadronic Final States from  $s = 13$  TeV pp Collisions Recorded with the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
 Physical Review Letters, vol.126, no.12, 2021 (SCI-Expanded)
- CCXXVI. Longitudinal Flow Decorrelations in Xe+Xe Collisions at  $s_{NN} = 5.44$  TeV with the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N.,

- Abramowicz H., et al.  
Physical Review Letters, vol.126, no.12, 2021 (SCI-Expanded)
- CCXXVII. Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at  $\sqrt{s}=13\text{TeV}$  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, vol.81, no.3, 2021 (SCI-Expanded)
- CCXXVIII. Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.3, 2021 (SCI-Expanded)
- CCXXIX. Measurement of light-by-light scattering and search for axion-like particles with  $2.2 \text{ nb}^{-1}$  of Pb+Pb data with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.3, 2021 (SCI-Expanded)
- CCXXX. Medium-Induced Modification of Z -Tagged Charged Particle Yields 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., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.126, no.7, 2021 (SCI-Expanded)
- CCXXXI. Search for squarks and gluinos in final states with jets and missing transverse momentum using  $139 \text{ fb}^{-1}$  of  $\sqrt{s} = 13 \text{ TeV}$  pp collision data with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2021, no.2, 2021 (SCI-Expanded)
- CCXXXII. Measurements of WH and ZH production in the  $H \rightarrow bb^-$  decay channel in pp collisions at 13Te 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, vol.81, no.2, 2021 (SCI-Expanded)
- CCXXXIII. Search for dark matter in association with an energetic photon in pp collisions at root s=13 TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2021 (SCI-Expanded)
- CCXXXIV. Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton–proton collisions at ATLAS**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
European Physical Journal C, vol.81, no.2, 2021 (SCI-Expanded)
- CCXXXV. A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.812, 2021 (SCI-Expanded)
- CCXXXVI. Measurement of the jet mass in high transverse momentum  $Z(\rightarrow bb^-)\gamma$  production at  $s=13\text{TeV}$  using the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.812, 2021 (SCI-Expanded)

- CCXXXVII. **Measurement of hadronic event shapes in high-p T multijet final states at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*Journal of High Energy Physics*, vol.2021, no.1, 2021 (SCI-Expanded)
- CCXXXVIII. **Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
*Journal of High Energy Physics*, vol.2021, no.1, 2021 (SCI-Expanded)
- CCXXXIX. **Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC**  
 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*, vol.81, no.1, 2021 (SCI-Expanded)
- CCXL. **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., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*Physical Review Letters*, vol.125, no.26, 2020 (SCI-Expanded)
- CCXLI. **Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at  $s = 13$  TeV with the ATLAS Detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*Physical Review Letters*, vol.125, no.25, 2020 (SCI-Expanded)
- CCXLII. **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  $\sqrt{s} = 13$  TeV**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
*Physical Review D*, vol.102, no.11, 2020 (SCI-Expanded)
- CCXLIII. **Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton - proton collisions at root  $s=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
*PHYSICAL REVIEW D*, vol.102, no.11, 2020 (SCI-Expanded)
- CCXLIV. **Alignment of the ATLAS Inner Detector 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.  
*European Physical Journal C*, vol.80, no.12, 2020 (SCI-Expanded)
- CCXLV. **Determination of jet calibration and energy resolution in proton-proton collisions at  $\sqrt{s}=8$ TeV using the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.  
*European Physical Journal C*, vol.80, no.12, 2020 (SCI-Expanded)
- CCXLVI. **Search for heavy diboson resonances in semileptonic 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., AbouZeid O., Abraham N., Abramowicz H., et al.  
*European Physical Journal C*, vol.80, no.12, 2020 (SCI-Expanded)
- CCXLVII. **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**

- Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.125, no.22, 2020 (SCI-Expanded)
- CCXLVIII. Measurement of the  $t\bar{t}$  production cross-section in the lepton+jets channel at  $s=13$  TeV with the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.810, 2020 (SCI-Expanded)
- CCXLIX. Reconstruction and identification of boosted di- $\tau$  systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.11, 2020 (SCI-Expanded)
- CCL. Evidence for  $t\bar{t}$   $t\bar{t}$  production in the multilepton final state in proton–proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
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, vol.80, no.11, 2020 (SCI-Expanded)
- CCLI. Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of Instrumentation, vol.15, no.11, 2020 (SCI-Expanded)
- CCLII. 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., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
European Physical Journal C, vol.80, no.11, 2020 (SCI-Expanded)
- CCLIII. Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.11, 2020 (SCI-Expanded)
- CCLIV. A search for the  $Z\gamma$  decay mode of the Higgs boson in pp collisions at  $s=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.809, 2020 (SCI-Expanded)
- CCLV. Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.10, 2020 (SCI-Expanded)
- CCLVI. 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, vol.15, no.10, 2020 (SCI-Expanded)
- CCLVII. Search for  $t\bar{t}$  resonances in fully hadronic final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.10, 2020 (SCI-Expanded)
- CCLVIII. Higgs boson production cross-section measurements and their EFT interpretation in the 4  $\ell$  decay**

**channel at  $\sqrt{s} = 13$  TeV 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, vol.80, no.10, 2020 (SCI-Expanded)

- CCLIX. **Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using root  $s=13$  TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC**  
Aad G., Abbott B., Abbott D. C., Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.10, 2020 (SCI-Expanded)

- CCLX. **Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, vol.2020, no.10, 2020 (SCI-Expanded)

- CCLXI. **Dijet Resonance Search with Weak Supervision Using  $s = 13$  TeV pp Collisions in the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review Letters, vol.125, no.13, 2020 (SCI-Expanded)

- CCLXII. **Performance of the ATLAS muon triggers 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.

Journal of Instrumentation, vol.15, no.9, 2020 (SCI-Expanded)

- CCLXIII. **Measurements of inclusive and differential cross-sections of combined  $t\bar{t}\gamma$  and  $tW\gamma$  production in the  $e\mu$  channel at 13 TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, vol.2020, no.9, 2020 (SCI-Expanded)

- CCLXIV. **Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at  $s_{NN}=5.02$  TeV with the ATLAS detector**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.807, 2020 (SCI-Expanded)

- CCLXV. **CP Properties of Higgs Boson Interactions with Top Quarks in the  $t\bar{t}^+H$  and  $tH$  Processes Using  $H \rightarrow \gamma\gamma$  with the ATLAS Detector**

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

Physical Review Letters, vol.125, no.6, 2020 (SCI-Expanded)

- CCLXVI. **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**  
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, vol.80, no.8, 2020 (SCI-Expanded)

- CCLXVII. **Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking**

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

Journal of High Energy Physics, vol.2020, no.8, 2020 (SCI-Expanded)

- CCLXVIII. **Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at  $s = 13$  TeV with the ATLAS detector**

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

- Physical Review D, vol.102, no.3, 2020 (SCI-Expanded)
- CCLXIX. **Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at  $s = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
 Physical Review D, vol.102, no.3, 2020 (SCI-Expanded)
- CCLXX. **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., Abdinov O., Abud A. A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 European Physical Journal C, vol.80, no.8, 2020 (SCI-Expanded)
- CCLXXI. **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., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.80, no.8, 2020 (SCI-Expanded)
- CCLXXII. **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., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abou Zeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2020, no.8, 2020 (SCI-Expanded)
- CCLXXIII. **Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at  $s = 13$  TeV**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
 Physical Review Letters, vol.125, no.5, 2020 (SCI-Expanded)
- CCLXXIV. **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., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2020, no.7, 2020 (SCI-Expanded)
- CCLXXV. **Search for the  $HH \rightarrow bb^- bb^-$  process via vector-boson fusion production using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2020, no.7, 2020 (SCI-Expanded)
- CCLXXVI. **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**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2020, no.7, 2020 (SCI-Expanded)
- CCLXXVII. **Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton 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., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.80, no.7, 2020 (SCI-Expanded)
- CCLXXVIII. **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 [Formula presented] with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.

- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.805, 2020 (SCI-Expanded)
- CCLXXIX. **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., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.124, no.22, 2020 (SCI-Expanded)
- CCLXXX. **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**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.6, 2020 (SCI-Expanded)
- CCLXXXI. **Search for squarks and gluinos in final states with same-sign leptons and jets using  $139 \text{ fb}^{-1}$  of data collected with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of High Energy Physics, vol.2020, no.6, 2020 (SCI-Expanded)
- CCLXXXII. **Measurement of the  $t\bar{t}$  production cross-section and lepton differential distributions in  $e\mu$  dilepton events from pp collisions at  $\sqrt{s}=13\text{TeV}$  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, vol.80, no.6, 2020 (SCI-Expanded)
- CCLXXXIII. **Search for light long-lived neutral particles produced in pp collisions at  $\sqrt{s}=13\text{TeV}$  and decaying into collimated leptons or light hadrons 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, vol.80, no.5, 2020 (SCI-Expanded)
- CCLXXXIV. **Evidence for electroweak production of two jets in association with a  $Z\gamma$  pair in pp collisions at  $s=13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.803, 2020 (SCI-Expanded)
- CCLXXXV. **Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in  $s = 13$  TeV pp collisions with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review D, vol.101, no.7, 2020 (SCI-Expanded)
- CCLXXXVI. **ATLAS data quality operations and performance for 2015-2018 data-taking**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Journal of Instrumentation, vol.15, no.4, 2020 (SCI-Expanded)
- CLXXXVII. **Z boson production in Pb+Pb collisions at  $\sqrt{S_{\text{NN}}} = 5.02$  TeV measured by the ATLAS experiment**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.802, 2020 (SCI-Expanded)
- CCLXXXVIII. **The projections on  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings via  $vv^-\gamma$  production in HL-LHC and HE-LHC**  
Senol A., Denizli H., Yilmaz A., ÇAKIR İ. T., Cakir O.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.802, 2020 (SCI-Expanded)
- CCLXXXIX. **Search for long-lived neutral particles produced in pp collisions at  $s = 13$  TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

- Physical Review D, vol.101, no.5, 2020 (SCI-Expanded)
- CCXC.** **Searches for electroweak production of supersymmetric particles with compressed mass spectra in  $s = 13$  TeV pp collisions with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
- Physical Review D, vol.101, no.5, 2020 (SCI-Expanded)
- CCXCI.** **Measurement of isolated-photon plus two-jet production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2020, no.3, 2020 (SCI-Expanded)
- CCXCII.** **Measurement of the  $Z(\rightarrow \ell^+ \ell^-)\gamma$  production cross-section in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2020, no.3, 2020 (SCI-Expanded)
- CCXCIII.** **Search for new resonances in mass distributions of jet pairs using  $139 \text{ fb}^{-1}$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Journal of High Energy Physics, vol.2020, no.3, 2020 (SCI-Expanded)
- CCXCIV.** **Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at  $s = 13$  TeV**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
- Physical Review D, vol.101, no.5, 2020 (SCI-Expanded)
- CCXCV.** **Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Physical Review Letters, vol.124, no.8, 2020 (SCI-Expanded)
- CCXCVI.** **Search for non-resonant Higgs boson pair production in the  $b\bar{b}\ell\nu\ell\nu$  final state with the ATLAS detector in pp collisions at  $s=13$  TeV**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.801, 2020 (SCI-Expanded)
- CCXCVII.** **Search for the Higgs boson decays  $H \rightarrow ee$  and  $H \rightarrow e\mu$  in pp collisions at  $s=13\text{TeV}$  with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.801, 2020 (SCI-Expanded)
- CCXCVIII.** **Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at  $s=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.801, 2020 (SCI-Expanded)
- CCXCIX.** **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**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- European Physical Journal C, vol.80, no.2, 2020 (SCI-Expanded)
- CCC.** **Search for direct stau production in events with two hadronic  $\tau$ -leptons in  $s = 13$  TeV pp collisions**

**with the ATLAS detector**

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

Physical Review D, vol.101, no.3, 2020 (SCI-Expanded)

**CCCI. 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., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.

Journal of High Energy Physics, vol.2020, no.2, 2020 (SCI-Expanded)

**CCCII. Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at  $s_{NN} = 5.44$  TeV with the ATLAS detector**

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

Physical Review C, vol.101, no.2, 2020 (SCI-Expanded)

**CCCIII. Sensitivity on anomalous neutral triple gauge couplings via ZZ production at FCC-hh**

Yilmaz A., Senol A., Denizli H., ÇAKIR İ. T., Cakir O.

European Physical Journal C, vol.80, no.2, 2020 (SCI-Expanded)

**CCCIV. 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., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.

Physical Review Letters, vol.124, no.3, 2020 (SCI-Expanded)

**CCCV. Combination of searches for Higgs boson pairs in pp collisions at  $s=13$ TeV with the ATLAS detector**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.800, 2020 (SCI-Expanded)

**CCCVI. Searches for lepton-flavour-violating decays of the Higgs boson in  $s=13$  TeV pp collisions with the ATLAS detector**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.800, 2020 (SCI-Expanded)

**CCCVII. Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb $^{-1}$  of pp collisions at  $s=13$ TeV with the ATLAS experiment**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.800, 2020 (SCI-Expanded)

**CCCVIII. Combined measurements of Higgs boson production and decay using up to 80 fb-1 of proton-proton collision data at  $\sqrt{s} = 13$  TeV collected with the ATLAS experiment**

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

Physical Review D, vol.101, no.1, 2020 (SCI-Expanded)

**CCCIX. Fluctuations of anisotropic flow in Pb+Pb collisions at  $\sqrt{s}_{NN} = 5.02$  TeV with the ATLAS detector**

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, vol.2020, no.1, 2020 (SCI-Expanded)

**CCCX. Transverse momentum and process dependent azimuthal anisotropies in  $\sqrt{s}_{NN}=8.16$  TeV p+Pb 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, vol.80, no.1, 2020 (SCI-Expanded)

**CCCXI. Performance of electron and photon triggers in ATLAS during LHC 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.  
European Physical Journal C, vol.80, no.1, 2020 (SCI-Expanded)
- CCCXII. Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
Journal of Instrumentation, vol.14, no.12, 2019 (SCI-Expanded)
- CCCXIII. Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at s<sub>NN</sub> = 5.02 TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review C, vol.100, no.6, 2019 (SCI-Expanded)
- CCCXIV. Measurement of K<sub>0</sub> and  $\Lambda$  production in tt<sup>-</sup> dileptonic events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
European Physical Journal C, vol.79, no.12, 2019 (SCI-Expanded)
- CCCXV. Measurements of top-quark pair differential and double-differential cross-sections in the  $\ell +$  jets channel with pp collisions at  $\sqrt{s}=13$  TeV using 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, vol.79, no.12, 2019 (SCI-Expanded)
- CCCXVI. Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Journal of High Energy Physics, vol.2019, no.12, 2019 (SCI-Expanded)
- CCCXVII. 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., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
European Physical Journal C, vol.79, no.12, 2019 (SCI-Expanded)
- CCCXVIII. Measurement of the production cross section for a Higgs boson in association with a vector boson in the H → WW\* →  $\ell\nu\ell\nu$  channel in pp collisions at s=13 TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.798, 2019 (SCI-Expanded)
- CCCXIX. Evidence for the production of three massive vector bosons with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.798, 2019 (SCI-Expanded)
- CCCXX. 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 s=13 TeV**  
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.798, 2019 (SCI-Expanded)
- CCCXXI. ATLAS b-jet identification performance and efficiency measurement with tt<sup>-</sup> events in pp collisions at  $\sqrt{s}=13$  TeV**  
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, vol.79, no.11, 2019 (SCI-Expanded)
- CCCXXII. Measurement of  $W^\pm$ -boson and Z-boson production cross-sections in pp collisions at  $\sqrt{s}=2.76$  TeV with the ATLAS detector**
- Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- European Physical Journal C, vol.79, no.11, 2019 (SCI-Expanded)
- CCCXXIII. Measurement of  $W^\pm$  boson production in Pb+Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV 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, vol.79, no.11, 2019 (SCI-Expanded)
- CCCXXIV. Measurement of the top-quark mass in  $t\bar{t}$  + 1-jet events collected with the ATLAS detector in pp collisions at  $\sqrt{s} = 8$  TeV**
- Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- Journal of High Energy Physics, vol.2019, no.11, 2019 (SCI-Expanded)
- CCCXXV. Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions at  $s = 13$  TeV with the ATLAS Detector**
- Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
- Physical Review Letters, vol.123, no.16, 2019 (SCI-Expanded)
- CCCXXVI. 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., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.
- European Physical Journal C, vol.79, no.10, 2019 (SCI-Expanded)
- CCCXXVII. Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 TeV**
- Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- European Physical Journal C, vol.79, no.10, 2019 (SCI-Expanded)
- CCCXXVIII. Measurement of ZZ production in the  $\ell\ell\nu\nu$  final state with the ATLAS detector in pp collisions at  $\sqrt{s} = 13$  TeV**
- 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, vol.2019, no.10, 2019 (SCI-Expanded)
- CCCXXIX. Measurement of fiducial and differential  $W+W-$  production cross-sections at  $\sqrt{s}=13$  TeV with the ATLAS detector**
- Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- European Physical Journal C, vol.79, no.10, 2019 (SCI-Expanded)
- CCCXXX. STUDY ON ANOMALOUS NEUTRAL TRIPLE-GAUGE BOSON COUPLINGS FROM DIMENSION-EIGHT OPERATORS AT THE HL-LHC**
- Senol A., Denizli H., Yilmaz A., ÇAKIR İ. T., Cakir O.
- ACTA PHYSICA POLONICA B, vol.50, no.10, pp.1597-1605, 2019 (SCI-Expanded)
- CCCXXXI. Measurement of the inclusive isolated-photon cross section in pp collisions at  $\sqrt{s} = 13$  TeV using 36 fb $^{-1}$  of ATLAS data**
- Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
- Journal of High Energy Physics, vol.2019, no.10, 2019 (SCI-Expanded)
- CCCXXXII. Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector**

- Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 Journal of High Energy Physics, vol.2019, no.10, 2019 (SCI-Expanded)
- CCXXXIII. **Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at  $s = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
 Physical Review D, vol.100, no.5, 2019 (SCI-Expanded)
- CCXXXIV. **Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at  $s = 13$  TeV**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
 Physical Review D, vol.100, no.5, 2019 (SCI-Expanded)
- CCCXXXV. **Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
 Journal of Instrumentation, vol.14, no.9, 2019 (SCI-Expanded)
- CCXXXVI. **Measurement of prompt photon production in  $s_{NN}=8.16$  TeV p + Pb collisions with ATLAS**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.796, pp.230-252, 2019 (SCI-Expanded)
- CCXXXVII. **Search for high-mass dilepton resonances using 139 fb $^{-1}$  of pp collision data collected at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.796, pp.68-87, 2019 (SCI-Expanded)
- CXXXVIII. **Dijet azimuthal correlations and conditional yields in pp and p+Pb collisions at  $s_{NN}=5.02$  TeV with the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
 Physical Review C, vol.100, no.3, 2019 (SCI-Expanded)
- CCXXXIX. **Search for excited electrons singly produced in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS experiment at the LHC**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 European Physical Journal C, vol.79, no.9, 2019 (SCI-Expanded)
- CCCXL. **Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 European Physical Journal C, vol.79, no.9, 2019 (SCI-Expanded)
- CCCXLI. **Search for diboson resonances in hadronic final states in 139 fb $^{-1}$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
 Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
 Journal of High Energy Physics, vol.2019, no.9, 2019 (SCI-Expanded)
- CCXLII. **Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of  $\sqrt{s} = 13$  TeV with the ATLAS experiment**

- Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
European Physical Journal C, vol.79, no.9, 2019 (SCI-Expanded)
- CCCXIII. Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at  $s = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
Physical Review D, vol.100, no.3, 2019 (SCI-Expanded)
- CCCXIV. Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions at  $s = 13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.795, pp.56-75, 2019 (SCI-Expanded)
- CCCXLV. Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at  $\sqrt{s} = 13$  TeV**  
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
European Physical Journal C, vol.79, no.8, 2019 (SCI-Expanded)
- CCCXLVI. Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
European Physical Journal C, vol.79, no.8, 2019 (SCI-Expanded)
- CCXLVII. Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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, vol.2019, no.8, 2019 (SCI-Expanded)
- CCXLVIII. Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector**  
Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
Physical Review Letters, vol.123, no.5, 2019 (SCI-Expanded)
- CCXLIX. Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at  $s = 13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review D, vol.100, no.1, 2019 (SCI-Expanded)
- CCCL. Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.123, no.4, 2019 (SCI-Expanded)
- CCCLI. Search for scalar resonances decaying into  $\mu + \mu -$  in events with and without b-tagged jets produced in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.  
Journal of High Energy Physics, vol.2019, no.7, 2019 (SCI-Expanded)
- CCCLII. HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**

- Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.  
 EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.1109-1382, 2019 (SCI-Expanded)
- CCCLIII. Probing top quark FCNC tqy and tqZ couplings at future electron-proton colliders**  
 Cakir O., Yilmaz A., ÇAKIR İ. T., Senol A., Denizli H.  
 Nuclear Physics B, vol.944, 2019 (SCI-Expanded)
- CCCLIV. FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**  
 Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.  
 EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (SCI-Expanded)
- CCCLV. Top quark anomalous FCNC production via tqg couplings at an FCC-hh**  
 Oyulmaz K. Y., Senol A., Denizli H., Cakir O.  
 Physical Review D, vol.99, no.11, 2019 (SCI-Expanded)
- CCCLVI. Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.  
 Physical Review Letters, vol.122, no.23, 2019 (SCI-Expanded)
- CCCLVII. Modelling radiation damage to pixel sensors in the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
 Journal of Instrumentation, vol.14, no.6, 2019 (SCI-Expanded)
- CCCLVIII. Search for invisible Higgs boson decays in vector boson fusion at  $s=13\text{TeV}$  with the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.793, pp.499-519, 2019 (SCI-Expanded)
- CCCLIX. Observation of electroweak  $W \pm Z$  boson pair production in association with two jets in pp collisions at  $s=13\text{ TeV}$  with the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.793, pp.469-492, 2019 (SCI-Expanded)
- CCCLX. Searches for third-generation scalar leptoquarks in  $\sqrt{s} = 13\text{ TeV}$  pp collisions with the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Journal of High Energy Physics, vol.2019, no.6, 2019 (SCI-Expanded)
- CCCLXI. FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**  
 Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.  
 EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (SCI-Expanded)
- CCCLXII. FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**  
 Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.  
 EUROPEAN PHYSICAL JOURNAL C, vol.79, no.6, 2019 (SCI-Expanded)
- CCCLXIII. Measurement of  $W \pm Z$  production cross sections and gauge boson polarisation in pp collisions at  $\sqrt{s}=13\text{TeV}$  with the ATLAS detector**  
 Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 European Physical Journal C, vol.79, no.6, 2019 (SCI-Expanded)
- CCCLXIV. 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  $s = 13$  TeV**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.122, no.15, 2019 (SCI-Expanded)
- CCCLXV. Cross-section measurements of the Higgs boson decaying into a pair of  $\tau$ -leptons in proton-proton collisions at  $s = 13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review D, vol.99, no.7, 2019 (SCI-Expanded)
- CCCLXVI. Probing anomalous tqy and tqg couplings via single top production in association with photon at FCC-hh**  
Oyulmaz K. Y., Senol A., Denizli H., Yilmaz A., ÇAKIR İ. T., Cakir O.  
European Physical Journal C, vol.79, no.1, 2019 (SCI-Expanded)
- CCCLXVII. Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets 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., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.788, pp.347-370, 2019 (SCI-Expanded)
- CCLXVIII. Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at  $s = 13$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.121, no.21, 2018 (SCI-Expanded)
- CCCLXIX. Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb+Pb Collisions at  $s_{NN} = 5.02$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.121, no.21, 2018 (SCI-Expanded)
- CCCLXX. Search for Resonant and Nonresonant Higgs Boson Pair Production in the  $b\bar{b}\tau^+\tau^-$  Decay Channel in pp Collisions at  $s = 13$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.121, no.19, 2018 (SCI-Expanded)
- CCCLXXI. Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at  $s = 13$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.  
Physical Review Letters, vol.121, no.15, 2018 (SCI-Expanded)
- CCCLXXII. Probing the effects of dimension-eight operators describing anomalous neutral triple gauge boson interactions at FCC-hh**  
Senol A., Denizli H., Yilmaz A., ÇAKIR İ. T., Oyulmaz K. Y., Karadeniz O., Cakir O.  
Nuclear Physics B, vol.935, pp.365-376, 2018 (SCI-Expanded)
- CCLXXIII. Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at  $s = 13$  TeV**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.  
Physical Review Letters, vol.121, no.8, 2018 (SCI-Expanded)
- CCLXXIV. Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.

- Physical Review Letters, vol.120, no.21, 2018 (SCI-Expanded)
- CCCLXXV. Search for a Structure in the  $Bs0 \pi^\pm$  Invariant Mass Spectrum with the ATLAS Experiment**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
- Physical Review Letters, vol.120, no.20, 2018 (SCI-Expanded)
- CCLXXVI. Search for High-Mass Resonances Decaying to  $\tau\nu$  in  $pp$  Collisions at  $\sqrt{s} = 13$  TeV with the ATLAS Detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
- Physical Review Letters, vol.120, no.16, 2018 (SCI-Expanded)
- CCLXXVII. Measurement of the Soft-Drop Jet Mass in  $pp$  Collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector**  
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
- Physical Review Letters, vol.121, no.9, 2018 (SCI-Expanded)
- CCLXXVIII. Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC**  
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
- Nature Physics, vol.13, no.9, pp.852-858, 2017 (SCI-Expanded)
- CCCLXXIX. Top quark FCNC couplings at future circular hadron electron colliders**  
Denizli H., Senol A., Yilmaz A., ÇAKIR İ. T., Karadeniz H., Cakir O.
- Physical Review D, vol.96, no.1, 2017 (SCI-Expanded)
- CCCLXXX. Probing the Anomalous FCNC tqy Couplings at Large Hadron Electron Collider**  
ÇAKIR İ. T., Yilmaz A., Denizli H., Senol A., Karadeniz H., Cakir O.
- Advances in High Energy Physics, vol.2017, 2017 (SCI-Expanded)
- CCLXXXI. Probing charged Higgs boson couplings at a future circular hadron collider**  
Cakir I. T., KUDAY S., Saygin H., Senol A., Cakir O.
- PHYSICAL REVIEW D, vol.94, no.1, 2016 (SCI-Expanded)
- CCLXXXII. Effects of the FCNC Couplings in Production of New Heavy Quarks within Z' Models at the LHC**  
Cetinkaya V., ARI V., Cakir O.
- Advances in High Energy Physics, vol.2016, 2016 (SCI-Expanded)
- CCLXXXIII. New IceCube data and color octet neutrino interpretation of the PeV energy events**  
Akay A. N., Cakir O., Gunaydin Y. O., Kaya Ü., Sahin M., Sultansoy S.
- INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.30, no.26, 2015 (SCI-Expanded)
- CCLXXXIV. Production and decay of up-type and down-type new heavy quarks through anomalous interactions at the LHC**  
Cakir I. T., Kuday S., Cakir O.
- Advances in High Energy Physics, vol.2015, 2015 (SCI-Expanded)
- CCLXXXV. Anomalous HZ $\gamma$  couplings in photon-induced collisions at the LHC**  
Senol A., Tasci A. T., Cakir I. T., Cakir O.
- Modern Physics Letters A, vol.29, no.36, 2014 (SCI-Expanded)
- CCLXXXVI. Search for HZZ' couplings at the LHC**  
ARI V., Cakir O., Kuday S.
- EPL, vol.108, no.1, 2014 (SCI-Expanded)
- CLXXXVII. Search for anomalous WW $\gamma$  and WWZ couplings with polarized E-beam at the LHeC**  
Cakir I. T., Cakir O., Senol A., Tasci A. T.
- Acta Physica Polonica B, vol.45, no.10, pp.1947-1961, 2014 (SCI-Expanded)
- CCLXXXVIII. Pair production of new heavy leptons with U(1)' charge at linear colliders**  
ARI V., Cakir O., KUDAY S.
- International Journal of Modern Physics A, vol.29, no.11-12, 2014 (SCI-Expanded)
- CCLXXXIX. Probing anomalous hzz couplings at the lhec**  
Cakir I. T., Cakir O., Senol A., Tasci A. T.

- Modern Physics Letters A, vol.28, no.31, 2013 (SCI-Expanded)
- CCCXC.** **Forward-backward asymmetries of fourth family fermions through the Z' models at linear colliders**  
ARI V., Cakir O., Cetinkaya V.  
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.87, no.3, 2013 (SCI-Expanded)
- CCCXCI.** **Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC**  
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdelalim A., Abdinov O., Aben R., Abi B., Abolins M., et al. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.716, no.1, pp.1-29, 2012 (SCI-Expanded)
- CCCXCII.** **Single production of fourth family sneutrino via rpv couplings at linear colliders**  
ÇAKIR O., KUDAY S., Çakir I., Sultansoy S.  
Modern Physics Letters A, vol.27, no.28, 2012 (SCI-Expanded)
- CCCXIII.** **A Large Hadron Electron Collider at CERN**  
Abelleira Fernandez J., Adolphsen C., Akay A., Aksakal H., Albacete J., Alekhin S., Allport P., Andreev V., Appleby R., Arikan E., et al.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.39, no.7, 2012 (SCI-Expanded)
- CCCXIV.** **Anomalous single production of fourth family up-type quark associated with neutral gauge bosons at the LHC**  
Çakr O., Çakr I., Senol A., Tasci A.  
Journal of Physics G: Nuclear and Particle Physics, vol.39, no.5, 2012 (SCI-Expanded)
- CCCXV.** **Resonant production of the fourth family slepton at the LHC**  
Cakir O., KUDAY S., Cakir I. T., Sultansoy S.  
Acta Physica Polonica B, vol.43, no.1, pp.63-70, 2012 (SCI-Expanded)
- CCCXVI.** **Pair production of tau sneutrinos at linear colliders**  
ARI V., Cakir O.  
Modern Physics Letters A, vol.26, no.24, pp.1783-1796, 2011 (SCI-Expanded)
- CCCXVII.** **Pair production of the fourth family charged sleptons at e +e- colliders**  
ARI V., Cakir O., Cakir I. T., Sultansoy S.  
EPL, vol.94, no.2, 2011 (SCI-Expanded)
- CCCXVIII.** **Search for top quark FCNC couplings in Z'models at the LHC and CLIC**  
ÇAKIR O., Çakir I., Senol A., Tasci A.  
European Physical Journal C, vol.70, no.1, pp.295-303, 2010 (SCI-Expanded)
- CCXCIX.** **Single production of fourth family b' quarks at the large hadron electron collider**  
ÇAKIR O., Çetinkaya V.  
Modern Physics Letters A, vol.25, no.30, pp.2571-2577, 2010 (SCI-Expanded)
- CD.** **Anomalous single top production at the LHeC based  $\gamma p$  collider**  
Cakir I., ÇAKIR O., Sultansoy S.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.685, no.2-3, pp.170-173, 2010 (SCI-Expanded)
- CDI.** **Anomalous resonant production of the fourth-family up-type quarks at the LHC**  
Çakir I., YILDIZ H., Çakir O., Ünel G.  
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.80, no.9, 2009 (SCI-Expanded)
- CDII.** **Single production of fourth-family t' quarks at the CERN large hadron electron collider**  
ÇAKIR O., Senol A., Tasci A.  
EPL, vol.88, no.1, 2009 (SCI-Expanded)
- CDIII.** **Single production of excited spin-3/2 neutrinos at linear colliders**  
Cakir O., OZANSOY A.  
PHYSICAL REVIEW D, vol.79, no.5, 2009 (SCI-Expanded)
- CDIV.** **Unparticle effects on top quark rare decays**  
ALIYEV T., Çakir O., Ozansoy K.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.670, no.4-5, pp.336-339, 2009

- (SCI-Expanded)
- CDV. **Single production of fourth-family quarks at the LHC**  
 Cakir O., Cakir I. T., Yildiz H., Mehdiyev R.  
 European Physical Journal C, vol.56, no.4, pp.537-543, 2008 (SCI-Expanded)
- CDVI. **Unparticle searches through gamma-gamma scattering**  
 Cakir O., Ozansoy K. O.  
 EUROPEAN PHYSICAL JOURNAL C, vol.56, no.2, pp.279-285, 2008 (SCI-Expanded)
- CDVII. **Probing little Higgs model in  $e(+e(-) \rightarrow \nu(\bar{\nu})\gamma\gamma)$**   
 ALIYEV T., Cakir O.  
 EUROPEAN PHYSICAL JOURNAL C, vol.54, no.1, pp.149-158, 2008 (SCI-Expanded)
- CDVIII. **Search for excited spin-3/2 and spin-1/2 leptons at linear colliders**  
 Cakir O., OZANSOY A.  
 PHYSICAL REVIEW D, vol.77, no.3, 2008 (SCI-Expanded)
- CDIX. **Unparticle searches through Compton scattering**  
 Cakir O., Ozansoy K. O.  
 EPL, vol.83, no.5, 2008 (SCI-Expanded)
- CDX. **Observability of the Higgs boson in the presence of extra standard model families at the Tevatron**  
 Arik E., Cakir O., Cetin S. A., Sultansoy S.  
 ACTA PHYSICA POLONICA B, vol.37, no.10, pp.2839-2850, 2006 (SCI-Expanded)
- CDXI. **Production of doubly charged Higgs bosons at linear  $e(-)e(-)$  colliders**  
 Cakir O.  
 NEW JOURNAL OF PHYSICS, vol.8, 2006 (SCI-Expanded)
- CDXII. **Resonant production of diquarks at high energy pp, ep and  $e(+e(-))$  colliders**  
 Cakir O., Sahin M.  
 PHYSICAL REVIEW D, vol.72, no.11, 2005 (SCI-Expanded)
- CDXIII. **A search for the fourth SM family quarks at the Tevatron**  
 Arik E., Cakir O., Sultansoy S.  
 EUROPEAN PHYSICAL JOURNAL C, vol.39, no.4, pp.499-501, 2005 (SCI-Expanded)
- CDXIV. **Anomalous single top quark production at the CERN LHC**  
 Cakir O., Cetin S.  
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.31, no.1, 2005 (SCI-Expanded)
- CDXV. **Single production of excited electrons at future  $e(+e(-), ep$  and  $pp$  colliders**  
 Cakir O., Yilmaz A., Sultansoy S.  
 PHYSICAL REVIEW D, vol.70, no.7, 2004 (SCI-Expanded)
- CDXVI. **Single production of excited neutrinos at future  $e(+e(-), ep$  and  $pp$  colliders**  
 Cakir O., Cakir I., Kirca Z.  
 PHYSICAL REVIEW D, vol.70, no.7, 2004 (SCI-Expanded)
- CDXVII. **Heavy lepton production at Linac $\otimes$ LHC**  
 Alan A., Tasçi A., ÇAKIR O.  
 Acta Physica Polonica B, vol.35, no.9, pp.2199-2204, 2004 (SCI-Expanded)
- CDXVIII. **On the observability of pseudoscalar toponium at future hadron colliders**  
 Cakir O., ÇİFTÇİ R., Recepoglu E., Sultansoy S.  
 ACTA PHYSICA POLONICA B, vol.35, no.8, pp.2103-2107, 2004 (SCI-Expanded)
- CDXIX. **Production and decay of excited electrons at the LHC**  
 Cakir O., Leroy C., Mehdiyev R., Belyaev A.  
 EUROPEAN PHYSICAL JOURNAL C, vol.32, 2004 (SCI-Expanded)
- CDXX. **Anomalous production of fourth-family up-quarks at future lepton hadron colliders**  
 Alan A., Senol A., Cakir O.  
 EUROPHYSICS LETTERS, vol.66, no.5, pp.657-660, 2004 (SCI-Expanded)
- CDXXI. **Production of excited electrons at TESLA and CLIC based  $e\gamma$  colliders**  
 Kirca Z., ÇAKIR O., Aydin Z.

- Acta Physica Polonica B, vol.34, no.8, pp.4079-4093, 2003 (SCI-Expanded)
- CDXXII. Scalar leptoquark production at TESLA and CLIC based e gamma colliders**  
Cakir O., Ateser E., Koru H.  
EUROPEAN PHYSICAL JOURNAL C, vol.28, no.3, pp.381-388, 2003 (SCI-Expanded)
- CDXXIII. Anomalous production of top quarks at CLIC+LHC based  $\gamma p$  colliders**  
ÇAKIR O.  
Journal of Physics G: Nuclear and Particle Physics, vol.29, no.6, pp.1181-1191, 2003 (SCI-Expanded)
- CDXXIV. Anomalous single production of the fourth-SM-family quarks decaying into a light scalar boson at the Tevatron**  
Arik E., Cakir O., Sultansoy S.  
EUROPHYSICS LETTERS, vol.62, no.3, pp.332-335, 2003 (SCI-Expanded)
- CDXXV. Rare  $B_s \rightarrow \bar{v}\bar{v}\gamma$  decay beyond the standard model**  
ÇAKIR O., ŞİRVANLI B. B.  
Acta Physica Polonica B, vol.34, no.5, pp.2643-2649, 2003 (SCI-Expanded)
- CDXXVI. Anomalous single production of the fourth SM family quarks at the Fermilab Tevatron**  
Arik E., Cakir O., Sultansoy S.  
PHYSICAL REVIEW D, vol.67, no.3, 2003 (SCI-Expanded)
- CDXXVII. Fourth generation pseudoscalar quarkonium production and observability at hadron colliders**  
Arik E., Cakir O., Cetin S., Sultansoy S.  
PHYSICAL REVIEW D, vol.66, no.11, 2002 (SCI-Expanded)
- CDXXVIII. A search for vector diquarks at the CERN LHC**  
Arik E., Cetin S., Cakir O., Sultansoy S.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.6, no.9, pp.505-512, 2002 (SCI-Expanded)
- CDXXIX. Impact of energy and luminosity upgrades at LHC on the physics programme of ATLAS**  
Azuelos G., Benchekroun D., Cakir O., Elfgren E., Gianotti F., Hansen J., Hinchliffe I., Hohlfeld M., Jakobs K., Leroy C., et al.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.28, no.9, pp.2453-2474, 2002 (SCI-Expanded)
- CDXXX. Consequences of the extra SM families on the Higgs boson production at Fermilab Tevatron and CERN LHC**  
Arik E., Cakir O., Cetin S., Sultansoy S.  
PHYSICAL REVIEW D, vol.66, no.3, 2002 (SCI-Expanded)
- CDXXXI. Fourth standard model family enhancement to the golden mode at the upgraded Fermilab Tevatron**  
Cakir O., Sultansoy S.  
PHYSICAL REVIEW D, vol.65, no.1, 2002 (SCI-Expanded)
- CDXXXII. Anomalous  $Wtb$  coupling in  $ep$  collision**  
Atag S., Cakir O., Dilec B.  
PHYSICS LETTERS B, vol.522, no.1-2, pp.76-82, 2001 (SCI-Expanded)
- CDXXXIII. Search for excited quarks with the ATLAS experiment at the CERN LHC:  $W/Z$  plus jet channel**  
Cakir O., Leroy C., Mehdiyev R.  
PHYSICAL REVIEW D, vol.63, no.9, 2001 (SCI-Expanded)
- CDXXXIV. Search for excited quarks with the ATLAS experiment at the CERN LHC: Double jets channel**  
Cakir O., Leroy C., Mehdiyev R.  
PHYSICAL REVIEW D, vol.62, no.11, 2000 (SCI-Expanded)
- CDXXXV. Excited quark production at the CERN LHC**  
Cakir O., Mehdiyev R.  
PHYSICAL REVIEW D, vol.60, no.3, 1999 (SCI-Expanded)
- CDXXXVI. Single vector leptoquark production at gamma e and gamma p colliders**  
Cakir O., Koru H., Ocak M.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.25, no.6, pp.1187-1203, 1999 (SCI-Expanded)
- CDXXXVII. Resonance production of diquarks at the CERN LHC**  
Atag S., Cakir O., Sultansoy S.

- PHYSICAL REVIEW D, vol.59, no.1, 1999 (SCI-Expanded)
- DXXXVIII. **Heavy Quark Production at  $\gamma p$  Colliders**  
 ÇAKIR O., YILMAZ M.  
 Turkish Journal of Physics, vol.22, no.7, pp.733-739, 1998 (SCI-Expanded)
- CDXXXIX. **Single top quark production at  $e p$  and gamma  $p$  colliders**  
 Cakir O., Yilmaz M.  
 EUROPHYSICS LETTERS, vol.41, no.3, pp.267-272, 1998 (SCI-Expanded)
- CDXL. **Heavy quarks at  $e p$  and gamma  $p$  colliders**  
 Cakir O., Yilmaz M.  
 EUROPHYSICS LETTERS, vol.38, no.1, pp.13-18, 1997 (SCI-Expanded)
- CDXLI. **HERA+LC-based gamma  $p$  collider: Luminosity and physics**  
 Aydin Z., Alan A., Atag S., Cakir O., Celikel A., Ciftci A., Kandemir A., Sultansoy S., Turkoz S., Yavas O., et al.  
 INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.11, no.11, pp.2019-2044, 1996 (SCI-Expanded)
- CDXLII. **SINGLE AND PAIR PRODUCTION OF VECTOR LEPTOQUARKS AT HIGH-ENERGY GAMMA- $p$  COLLIDERS**  
 CAKIR O., ATAG S.  
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.21, no.9, pp.1189-1198, 1995 (SCI-Expanded)
- CDXLIII. **PAIR PRODUCTION OF SCALAR LEPTOQUARKS AT TEV ENERGY GAMMA- $p$  COLLIDERS**  
 ATAG S., CAKIR O.  
 PHYSICAL REVIEW D, vol.49, no.11, pp.5769-5772, 1994 (SCI-Expanded)
- CDXLIV. **Path integral solution of a three-dimensional three-body problem**  
 Atag S., ÇAKIR O.  
 European Journal of Physics, vol.12, no.2, pp.66-68, 1991 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Software Performance of the ATLAS Track Reconstruction for LHC Run 3**  
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
 Computing and Software for Big Science, vol.8, no.1, 2024 (Scopus)
- II. **AtlFast3: The Next Generation of Fast Simulation in ATLAS**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.  
 Computing and Software for Big Science, vol.6, no.1, 2022 (Scopus)
- III. **Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events**  
 Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.  
 Computing and Software for Big Science, vol.6, no.1, 2022 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Single Production of Vector Like X Quark at the HL-LHC**  
 CANBAY A. C., ÇAKIR O.  
 TFD 37. Uluslararası Fizik Kongresi, Muğla, Turkey, 1 - 05 September 2021, vol.3, pp.44-50
- II. **13 TeV'de  $p-p$  Çarpışmasında ATLAS Dedektörü ile BtW Bozunum Kanalı için Vektör-Benzeri Aşağı Tipli Kuarkların Tek Üretiminin Araştırılması**  
 KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O.  
 1. Ulusal CERN ile ilgili Faaliyetler Çalıştayı, Ankara, Turkey, 4 - 05 October 2018
- III. **ATLAS Detektöründe Tekli Vektör Benzeri B-Kuark Analizleri**

- KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O.  
İstanbul Yüksek Enerji Fiziği Çalıştayı (YEFİST 2018), İstanbul, Turkey, 28 - 29 April 2018
- IV. **Production and Decay Channels of Charged Higgs Boson at High Energy Hadron Colliders**  
Demirci A. E., ÇAKIR O.  
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- V. **Recent developments in DEMIRCI, the RFQ design software**  
Celebi E., ÇAKIR O., Turemen G., Yasatekin B., Unel G.  
8th International Particle Accelerator Conference, IPAC 2017, Bella Conference Center, Denmark, 14 - 19 May 2017, pp.3830-3832
- VI. **Bu yu k Hadron Çarpıştırıcısında Yeni Ag ır Kuark U retimine C es ni Deg is tiren Yu ksu z Akım Bag las imalarının Etkisi**  
ÇETINKAYA V., ARI V., ÇAKIR O.  
Adım Fizik Günleri IV, Turkey, 28 May 2015
- VII. **Büyük Hadron Çarpıştırıcı'snda HZZ' Bağlaşımlarının Ölçümü**  
KUDAY S., ARI V., ÇAKIR O.  
Ankara Yüksek Enerji Fiziği Günleri, Ankara, Turkey, 12 - 14 February 2015
- VIII. **Turkish accelerator center: The status and road map**  
AKSOY A., ÇAKIR O., YILDIZ H., YAVAŞ Ö., AKKUŞ B., ÖZKORUCUKLU S., ŞAHİN YALÇIN L., Nergiz Z., Aksakal H., Algin E.  
5th International Particle Accelerator Conference, IPAC 2014, Dresden, Germany, 15 - 20 June 2014, pp.2921-2923
- IX. **Dördüncü Aile Snötrino Tek Üretiminin R-Parite Bozan Süreçler Yoluyla Araştırılması**  
KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O., SULTANOV S.  
İzmir Yüksek Enerji Fiziği ve Uygulamaları Çalıştayı, İzmir, Turkey, 19 - 23 June 2012
- X. **LHC'de R-Parite Bozan Slepton Rezonansının Araştırılması**  
KUDAY S., ÇAKIR O., TÜRK ÇAKIR İ., SULTANOV S.  
Ankara Yüksek Enerji Fiziği Günleri, Ankara, Turkey, 27 - 30 December 2011
- XI. **Fourth Family Quarks Forward Backward Asymmetry Within the Z Models at Linear Colliders**  
ARI V., ÇETINKAYA V., ÇAKIR O.  
Turkish Physical Society 28th International Physics Congress, 06 September 2011
- XII. **The status of turkish accelerator center project**  
ÖZKORUCUKLU S., YAVAŞ Ö., ÇAKIR O., Ciftci A., Ciftci R., AKSOY A., Ketenoglu B., Zengin K., AKKUŞ B., Arikhan P., et al.  
1st International Particle Accelerator Conference, IPAC 2010, Kyoto, Japan, 23 - 28 May 2010, pp.4419-4421
- XIII. **Pair Production of Stop and Sbottom at the LHC**  
KUDAY S., ÇAKIR O.  
Turkish Physical Society 27th International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010
- XIV. **Pair Production of TauSneutrinos at Linear Colliders**  
ARI V., ÇAKIR O.  
Turkish Physical Society 27th International Physics Congress, 14 September - 17 April 2010
- XV. **CLIC signals studies**  
OZANSOY A., ÇAKIR O., TÜRK ÇAKIR İ.  
CLIC08 Workshop, Cenevre, Switzerland, 14 - 17 October 2008
- XVI. **Search for excited leptons**  
OZANSOY A., ÇAKIR O.  
CLIC08 Workshop, Cenevre, Switzerland, 14 - 17 October 2008
- XVII. **Türk Hızlandırıcı Merkezinde Elektron ve Pozitron Kaynakları ve Özellikleri**  
ÇAKIR O., OZANSOY A., ŞAHİN M.  
3. Ulusal Parçacık Hızlandırıcıları ve Uygulamaları Kongresi, Bodrum, Turkey, 17 - 19 September 2007, pp.17
- XVIII. **The status of Turkic accelerator complex proposal**  
Sultansoy S., YILMAZ M., ÇAKIR O., Çiftçi A., Recepoglu E., YAVAŞ Ö.

Particle Accelerator Conference, PAC 2005, Knoxville, TN, United States Of America, 16 - 20 May 2005, vol.2005, pp.449-451

XIX. **Production and decay of spin 3/2 and spin 1/2 excited leptons at linear colliders**

ÇAKIR O., OZANSOY A.

Turkish Physical Society, 23rd International Physics Congress, Muğla, Turkey, 13 - 16 September 2005

## Metrics

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## Congress and Symposium Activities

III Akademide Üç Kuşak, BilimKültür ve Sanat Sempozyumu, Working Group, Kütahya, Turkey, 2023