

Prof. ORHAN AKIR

Personal Information

Web: <https://avesis.ankara.edu.tr/102139>

Address: Ankara niversitesi, Fen Fakltesi, Fizik Blm, 06100, Beşevler, Ankara

International Researcher IDs

ScholarID: jxYK_38AAAAJ

ORCID: 0000-0002-9016-138X

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

ScopusID: 57212378721

Yoksis Researcher ID: 7794

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstits, Fizik (Dr), Turkey 1989 - 1995

Postgraduate, Ankara University, Fen Bilimleri Enstits, Fizik (YI) (Tezli), Turkey 1987 - 1989

Undergraduate, Ankara University, Fen Fakltesi, Fizik Blm, Turkey 1982 - 1986

Dissertations

Doctorate, Yksek enerjili Yp arpıřtırıcılarında leptokuark retimi, Ankara University, Fen Bilimleri Enstits, Fizik (Dr), 1994

Postgraduate, Mon-katalizrl fzyon ve manik molekller, Ankara University, Fen Bilimleri Enstits, Fizik (YI) (Tezli), 1989

Research Areas

Physics, Natural Sciences

Academic Titles / Tasks

Professor, Ankara University, Fen Fakltesi, Fizik Blm, 2016 - Continues

Professor, Ankara University, Fen Fakltesi, Fizik Blm, 2006 - Continues

Associate Professor, Ankara University, Fen Fakltesi, Fizik Blm, 2000 - Continues

Assistant Professor, Ankara University, Fen Fakltesi, Fizik Blm, 1997 - Continues

Lecturer PhD, Ankara University, Mhendislik Fakltesi, Fizik Mhendislięi Blm, 1995 - Continues

Research Assistant, Ankara University, Fen Fakltesi, Fizik Blm, 1987 - Continues

Academic and Administrative Experience

Anabilim Dalı Akademik Kurul yesi, Ankara University, Fen Fakltesi, Fizik Blm, 2015 - Continues

Deputy Head of Department, Ankara University, Fen Fakltesi, Fizik Blm, 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 kutuplusu tasarımı ve demet dinamiği hesapları, Postgraduate, H.BETÜL(Student), 2015
ÇAKIR O., D0-D0 karışımlarında çeşni değiştiren yüksüz akım etkilerinin araştırılması, Postgraduate, H.SAZAK(Student), 2013
ÇAKIR O., Çarpıştırıcılarda dördüncü aile kuarklarının üretimleri 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 sfermyonlarının karışım, üretim ve bozunumları, Doctorate, V.ARI(Student), 2012
ÇAKIR O., Büyük hadron çarpıştırıcısında üçüncü aile sfermyonlarının 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 kuarkın FCNC üretimi, Postgraduate, S.KUDAY(Student), 2005
ÇAKIR O., Elektron-pozitron çarpışmalarında uyarılmış leptonların üretimi, Postgraduate, A.YILMAZ(Student), 2004
ÇAKIR O., Üst kuarkın nadir bozunumları, Postgraduate, M.ŞAHİN(Student), 2003
ÇAKIR O., Üst kuarkın tek üretimi, Postgraduate, B.DİLEÇ(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Search for pair-produced higgsinos decaying via Higgs or Z bosons to final states containing a pair of photons and a pair of b-jets with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.856, 2024 (SCI-Expanded)
- II. **Search for heavy Majorana neutrinos in $e^{\pm}e^{\pm}$ and $e^{\pm}\mu^{\pm}$ final states via WW scattering in pp**

collisions at $s=13$ TeV with the ATLAS detector

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.856, 2024 (SCI-Expanded)

- III. **Combination of searches for Higgs boson decays into a photon and a massless dark photon using pp collisions at $s=13$ TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- IV. **Search for leptoquark pair production decaying into $te\text{-}t\bar{e}+$ or $t\bar{\mu}\text{-}t\bar{\mu}+$ in multi-lepton final states in pp collisions at $s=13$ TeV with the ATLAS detector**

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

European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- V. **Measurement of the $VH,H \rightarrow \tau\tau$ process with the ATLAS detector at 13 TeV**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.855, 2024 (SCI-Expanded)
- VI. **Measurement of ZZ production cross-sections in the four-lepton final state in pp collisions at $s=13.6$ TeV with the ATLAS experiment**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.855, 2024 (SCI-Expanded)
- VII. **Searches for exclusive Higgs boson decays into $D^*\gamma$ and Z boson decays into $D0\gamma$ and $Ks0\gamma$ in pp collisions at $s=13$ TeV with the ATLAS detector**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.855, 2024 (SCI-Expanded)
- VIII. **Search for low-mass resonances decaying into two jets and produced in association with a photon or a jet at Formula Presented with the ATLAS detector**

Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.

Physical Review D, no.3, 2024 (SCI-Expanded)
- IX. **Search for non-resonant Higgs boson pair production in final states with leptons, taus, and photons in pp collisions at $s=13$ TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- X. **Search for the nonresonant production of Higgs boson pairs via gluon fusion and vector-boson fusion in the Formula Presented final state in proton-proton collisions at Formula Presented with the ATLAS detector**

Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.

Physical Review D, vol.110, no.3, 2024 (SCI-Expanded)
- XI. **Statistical Combination of ATLAS Run 2 Searches for Charginos and Neutralinos at the LHC**

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

Physical review letters, vol.133, no.3, pp.31802, 2024 (SCI-Expanded)
- XII. **Observation of electroweak production of $W+W-$ in association with jets in proton-proton collisions at $s=13$ TeV with the ATLAS detector**

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

Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)

- XIII. **Search for pair-production of vector-like quarks in lepton+jets final states containing at least one b-tagged jet using the Run 2 data from the ATLAS experiment**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.854, 2024 (SCI-Expanded)
- XIV. **Measurement of t-channel single-top-quark production in pp collisions at $s=5.02$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.854, 2024 (SCI-Expanded)
- XV. **A search for top-squark pair production, in final states containing a top quark, a charm quark and missing transverse momentum, using the 139 fb^{-1} of pp collision data collected by the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)
- XVI. **Inclusive and differential cross-section measurements of $t\bar{t}Z$ production in pp collisions at $s = 13$ TeV with the ATLAS detector, including EFT and spin-correlation interpretations**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)
- XVII. **Measurement of vector boson production cross sections and their ratios using pp collisions at $s=13.6$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.854, 2024 (SCI-Expanded)
- XVIII. **Search for charged-lepton-flavor violating Formula Presented interactions in top-quark production and decay in Formula Presented collisions at Formula Presented with the ATLAS detector at the LHC**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Saha S., Ting E., White M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XIX. **Measurement of the Z boson invisible width at $s=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.854, 2024 (SCI-Expanded)
- XX. **Search for short- and long-lived axion-like particles in $H \rightarrow aa \rightarrow 4\gamma$ decays with the ATLAS experiment 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.
European Physical Journal C, vol.84, no.7, 2024 (SCI-Expanded)
- XXI. **Combination of searches for pair-produced leptoquarks at $s=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.854, 2024 (SCI-Expanded)
- XXII. **Search for flavour-changing neutral-current couplings between the top quark and the Higgs boson in multi-lepton final states in 13 TeV pp collisions with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.84, no.7, 2024 (SCI-Expanded)
- XXIII. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at Formula Presented and 8 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

- Hussain P., Jeitler M., et al.
Physical Review Letters, vol.132, no.26, 2024 (SCI-Expanded)
- XXIV. **Combination of Searches for Resonant Higgs Boson Pair Production Using Formula Presented Collisions at Formula Presented with the ATLAS Detector**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggieri T., Ting E., White M., Gingrich D., et al.
Physical Review Letters, vol.132, no.23, 2024 (SCI-Expanded)
- XXV. **Search for singly produced vectorlike top partners in multilepton final states with Formula Presented of Formula Presented collision data at Formula Presented with the ATLAS detector**
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XXVI. **Beam-induced backgrounds measured in the ATLAS detector during local gas injection into the LHC beam vacuum**
Aad G., Aakvaag E., Abbott B., Abdelhameed S., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., et al.
Journal of Instrumentation, vol.19, no.6, 2024 (SCI-Expanded)
- XXVII. **Search for high-mass resonances in final states with a Formula Presented-lepton and missing transverse momentum with the ATLAS detector**
Jackson P., Kong A., Potti H., Ruggieri T., Sharma A., White M., Gingrich D., Lindon J., Nishu N., Pinfeld J., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XXVIII. **The ATLAS trigger system for LHC Run 3 and trigger performance in 2022**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of Instrumentation, vol.19, no.6, 2024 (SCI-Expanded)
- XXIX. **Measurement of jet substructure in boosted Formula Presented events with the ATLAS detector using Formula Presented of 13 TeV Formula Presented collisions**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggieri T., Ting E., White M., Gingrich D., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XXX. **Search for pair production of higgsinos in events with two Higgs bosons and missing transverse momentum in Formula Presented Formula Presented collisions at the ATLAS experiment**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggieri T., Ting E., White M., Gingrich D., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XXXI. **Search for Nearly Mass-Degenerate Higgsinos Using Low-Momentum Mildly Displaced Tracks in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abicht N., Abidi S., Aboelela M., Aboulhorma A., Abramowicz H., Abreu H., et al.
Physical review letters, vol.132, no.22, pp.221801, 2024 (SCI-Expanded)
- XXXII. **Azimuthal Angle Correlations of Muons Produced via Heavy-Flavor Decays in 5.02 TeV Pb+Pb and pp Collisions with the ATLAS Detector**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggieri T., Ting E., White M., Gingrich D., et al.
Physical Review Letters, vol.132, no.20, 2024 (SCI-Expanded)
- XXXIII. **Performance of the ATLAS forward proton Time-of-Flight detector in Run 2**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggieri T., Ting E., White M., Gingrich D., et al.
Journal of Instrumentation, vol.19, no.5, 2024 (SCI-Expanded)
- XXXIV. **Search for new particles in final states with a boosted top quark and missing transverse momentum in proton-proton collisions at $s = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- XXXV. **Improving topological cluster reconstruction using calorimeter cell timing in ATLAS**
Zwalinski L., Zou W., Zormpa O., Zorbas T., Zoch K., Zoccoli A., Živković L., Ziolkowski M., Zinsser J., Zimine N., et al.
European Physical Journal C, vol.84, no.5, 2024 (SCI-Expanded)

- XXXVI. **The ATLAS experiment at the CERN Large Hadron Collider: a description of the detector configuration for Run 3**
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Davis P., Gingrich D., et al.
Journal of Instrumentation, vol.19, no.5, 2024 (SCI-Expanded)
- XXXVII. **Study of High-Transverse-Momentum Higgs Boson Production in Association with a Vector Boson in the $\langle i \rangle q\bar{q}bb\langle /i \rangle$ 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)
- XXXVIII. **A precise measurement of the Z-boson double-differential transverse momentum and rapidity distributions in the full phase space of the decay leptons with the ATLAS experiment at $s=8$ 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.84, no.3, 2024 (SCI-Expanded)
- XXXIX. **Measurement of the Centrality Dependence of the Dijet Yield in p plus Pb Collisions at $\sqrt{s_{NN}}=8.16$ TeV with the ATLAS Detector**
Filmer E., Grant C., Jackson P., Kong A., Pandya H., Potti H., Ruggeri T., Ting E., White M., Gingrich D., et al.
PHYSICAL REVIEW LETTERS, no.10, 2024 (SCI-Expanded)
- XL. **Search for New Phenomena in Two-Body Invariant Mass Distributions Using Unsupervised Machine Learning for Anomaly Detection at $p\sqrt{s}=13$ TeV ffi 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)
- XLI. **Search for non-resonant Higgs boson pair production in the $2b+2\ell+ET_{miss}$ final state 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.
Journal of High Energy Physics, vol.2024, no.2, 2024 (SCI-Expanded)
- XLII. **Study of $\langle i \rangle Z\langle /i \rangle \rightarrow \langle i \rangle ll\langle /i \rangle \gamma$ decays at $\sqrt{\langle i \rangle s\langle /i \rangle}=8$ 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.84, no.2, 2024 (SCI-Expanded)
- XLIII. **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)
- XLIV. **Search for top-philic heavy resonances in $\langle i \rangle pp\langle /i \rangle$ 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.
EUROPEAN PHYSICAL JOURNAL C, vol.84, no.2, 2024 (SCI-Expanded)
- XLV. **Search for pair production of squarks or gluinos decaying via sleptons or weak bosons in final states with two same-sign or three leptons 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.2024, no.2, 2024 (SCI-Expanded)
- XLVI. **Probing the $\langle i \rangle CP\langle /i \rangle$ nature of the top-Higgs Yukawa coupling in $\langle i \rangle t\langle /i \rangle (\langle i \rangle t\langle /i \rangle)\overline{\langle i \rangle H}\langle /i \rangle$ and $\langle i \rangle tH\langle /i \rangle$ events with $\langle i \rangle H\langle /i \rangle \rightarrow \langle i \rangle b\langle /i \rangle (\langle i \rangle b\langle /i \rangle)\overline{\langle i \rangle H}\langle /i \rangle$ 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 B, vol.849, 2024 (SCI-Expanded)

- XLVII. **Measurement of the production cross-section of J/ψ and $\psi(2S)$ mesons 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., Acharya B., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.84, no.2, 2024 (SCI-Expanded)

- XLVIII. **Search for quantum black hole production in lepton plus jet final states 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., Aboulhorma A., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, vol.109, no.3, 2024 (SCI-Expanded)

- XLIX. **Search for a CP-odd Higgs boson decaying into a heavy CP-even Higgs boson and a Z boson in the $l^+l^- \rightarrow l^+l^- t\bar{t}$ ($t\bar{t}$) over-bar and $\nu(\nu)$ over-bar $b\bar{b}$ ($b\bar{b}$) over-bar final states using 140 fb⁻¹ of data collected with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2024, no.2, 2024 (SCI-Expanded)

- L. **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)

- LI. **Search for resonant production of dark quarks in the dijet final state with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2024, no.2, 2024 (SCI-Expanded)

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

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

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

- LIII. **Differential cross-section measurements of the production of four charged leptons in association with two jets using the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2024, no.1, 2024 (SCI-Expanded)

- LIV. **Measurement of the $t\bar{t}$ cross section and its ratio to the Z production cross section using pp collisions at $\sqrt{s}=13.6$ TeV with the ATLAS detector**

Aad G., Abbott B., Abeling K., Abicht N. 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)

- LV. **Observation of $W\gamma\gamma$ triboson production in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**

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

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

- LVI. **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, no.2, 2024 (SCI-Expanded)

- LVII. **Measurement of the $H \rightarrow \gamma\gamma$ and $H \rightarrow Z\mu\mu \rightarrow Zl\bar{l}$ cross-sections in pp collisions**

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)

LVIII. Studies of new Higgs boson interactions through nonresonant HH production in the $b(b)\overline{b}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2024, no.1, 2024 (SCI-Expanded)

LIX. Combination and summary of ATLAS dark matter searches interpreted in a 2HDM with a pseudo-scalar mediator using 139 fb⁻¹ of $s=13$ TeV pp collision data

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

Science Bulletin, 2024 (SCI-Expanded)

LX. 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 B, vol.848, 2024 (SCI-Expanded)

LXI. 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)

LXII. 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 B, vol.847, 2023 (SCI-Expanded)

LXIII. Measurement of the Higgs boson mass with $H \rightarrow \gamma\gamma$ decays in 140 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)

LXIV. 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)

LXV. Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with charged leptons and jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

EUROPEAN PHYSICAL JOURNAL C, vol.83, no.12, 2023 (SCI-Expanded)

LXVI. Search for flavour-changing neutral tqH interactions with $H \rightarrow \gamma\gamma$ in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.12, 2023 (SCI-Expanded)

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

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

- JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.12, 2023 (SCI-Expanded)
- LXVIII. **Search for heavy Higgs bosons with flavour-violating couplings in multi-lepton plus b -jets final states in pp collisions at 13 TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hofman A. C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.12, 2023 (SCI-Expanded)
- LXIX. **Search for direct production of electroweakinos in final states with one lepton, jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B. S., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.12, 2023 (SCI-Expanded)
- LXX. **Pursuit of paired dijet resonances in the Run 2 dataset with ATLAS**
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.
PHYSICAL REVIEW D, vol.108, no.11, 2023 (SCI-Expanded)
- LXXI. **Combined Measurement of the Higgs Boson Mass from the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^* \rightarrow 4l$ 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, no.25, 2023 (SCI-Expanded)
- LXXII. **Search for pairs of muons with small displacements in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
PHYSICS LETTERS B, vol.846, 2023 (SCI-Expanded)
- LXXIII. **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)
- LXXIV. **Comparison of inclusive and photon-tagged jet suppression in 5.02 TeV Pb+Pb collisions with ATLAS**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
PHYSICS LETTERS B, vol.846, 2023 (SCI-Expanded)
- LXXV. **Evidence of off-shell Higgs boson production from ZZ leptonic decay channels and constraints on its total width with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., Acharya B., et al.
PHYSICS LETTERS B, vol.846, 2023 (SCI-Expanded)
- LXXVI. **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)
- LXXVII. **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)
- LXXVIII. **Performance of the reconstruction of large impact parameter tracks in the inner detector of ATLAS**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.83, no.11, 2023 (SCI-Expanded)

- LXXXIX. **Search for direct production of winos and higgsinos in events with two same-charge leptons or three leptons in $\sqrt{s}=13$ TeV pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.11, 2023 (SCI-Expanded)
- LXXX. **Search for magnetic monopoles and stable particles with high electric charges in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.11, 2023 (SCI-Expanded)
- LXXXI. **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)
- LXXXII. **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, vol.108, no.9, 2023 (SCI-Expanded)
- LXXXIII. **Search for pair production of third-generation leptoquarks decaying into a bottom quark and a τ - 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)
- LXXXIV. **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)
- LXXXV. **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)
- LXXXVI. **Search for single vector-like B quark production and decay via $B \rightarrow bH$ ($b\bar{b}$) in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.11, 2023 (SCI-Expanded)
- LXXXVII. **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)
- LXXXVIII. **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, 2023 (SCI-Expanded)
- LXXXIX. **Measurements of multijet event isotropies using optimal transport with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B. S., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.10, 2023 (SCI-Expanded)
- XC. **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)

- XCI. **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)
- XCII. **Observation of the $\gamma\gamma \rightarrow \tau\tau$ Process in Pb plus Pb Collisions and Constraints on the τ -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, no.15, 2023 (SCI-Expanded)
- XCIII. **Search for a new heavy scalar particle decaying into a Higgs boson and a new scalar singlet in final states with one or two light leptons and a pair of τ -leptons with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B. S., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.10, 2023 (SCI-Expanded)
- XCIV. **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)
- XCV. **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)
- XCVI. **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)
- XCVII. **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)
- XCVIII. **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)
- XCIX. **Search for nonresonant pair production of Higgs bosons in the $b\bar{b}(\bar{b}b)$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggeri T., Ting E., White M., Gingrich D., Lindon J., et al.
PHYSICAL REVIEW D, vol.108, no.5, 2023 (SCI-Expanded)
- C. **Measurement of the $B^0 \rightarrow \mu\mu$ effective lifetime with the ATLAS detector**
Aad G., Abbott B., Abeling K., Abicht N. J., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya

B. S., et al.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.9, 2023 (SCI-Expanded)

- CI. **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 $\langle i \rangle pp \langle /i \rangle$ collisions with the ATLAS detector**
Amerl M., Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., et al.
PHYSICAL REVIEW D, vol.108, no.5, 2023 (SCI-Expanded)
- CII. **Search for a light charged Higgs boson in $t \rightarrow H \langle \text{SUP} \rangle \pm \langle / \text{SUP} \rangle b$ decays, with $H \langle \text{SUP} \rangle \pm \langle / \text{SUP} \rangle \rightarrow cb$, in the lepton plus jets final state in proton-proton collisions at $\sqrt{s}=13$ 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.2023, no.9, 2023 (SCI-Expanded)
- CIII. **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, vol.83, no.9, 2023 (SCI-Expanded)
- CIV. **Search for dark matter produced in association with a Higgs boson decaying to tau leptons at $\sqrt{\langle i \rangle s \langle /i \rangle}=13$ TeV with the ATLAS detector**
Aad G., Aakvaag E., Abbott B., Abeling K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A. C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.9, 2023 (SCI-Expanded)
- CV. **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., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
Physical Review Letters, vol.131, no.7, 2023 (SCI-Expanded)
- CVI. **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)
- CVII. **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., Abud A. 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)
- CVIII. **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)
- CIX. **Search for pair-production of vector-like quarks in pp collision events at $\sqrt{s}=13$ TeV with at least one leptonically decaying Z boson and a third-generation quark with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICS LETTERS B, vol.843, 2023 (SCI-Expanded)
- CX. **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)

- CXI. **Measurement of the polarisation of W bosons produced in top-quark decays using dilepton events at $\sqrt{s}=13\text{TeV}$ with the ATLAS experiment**
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
PHYSICS LETTERS B, vol.843, 2023 (SCI-Expanded)
- CXII. **Observation of gauge boson joint-polarisation states in $W^{\pm} Z$ production from 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.
PHYSICS LETTERS B, vol.843, 2023 (SCI-Expanded)
- CXIII. **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)
- CXIV. **Search for flavor-changing neutral-current couplings between the top quark and the Z boson with proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Jackson P., Kong A., Potti H., Ruggieri T., Sharma A., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)
- CXV. **Search for displaced photons produced in exotic decays of the Higgs boson using 13 TeV pp collisions with the ATLAS detector**
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)
- CXVI. **New techniques for jet calibration with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.83, no.8, 2023 (SCI-Expanded)
- CXVII. **Measurement of the production of a W boson in association with a charmed hadron in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)
- CXVIII. **Evidence for the charge asymmetry in $(\text{Formula presented.})$ production 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.8, 2023 (SCI-Expanded)
- CXIX. **Search for the charged-lepton-flavor-violating decay $Z \rightarrow e\mu$ in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Jackson P., Kong A., Potti H., Ruggieri T., Sharma A., White M., Gingrich D., Lindon J., Nishu N., Pinfeld J., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)
- CXX. **Studies of the muon momentum calibration and performance of the ATLAS detector with pp collisions at $\sqrt{s}=13\text{ TeV}$**
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)
- CXXI. **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)
- CXXII. **Measurement of the inclusive $t\bar{t}(\bar{t})$ over-bar production cross section in the lepton**

plus jets channel in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector using support vector machines

Jackson P., Oliver J., Petridis A., Qureshi A., Sharma A., White M., Cairo V., Jain V., Swift S., Gingrich D., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)

CXXIII. 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)

CXXIV. Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using $H \rightarrow WW^* \rightarrow e\mu$ decays in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)

CXXV. Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139 fb⁻¹ of ATLAS proton-proton collision data at $\sqrt{s}=13$ TeV

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

European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)

CXXVI. 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)

CXXVII. Search for single production of vector-like T quarks decaying into Ht or Zt in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.8, 2023 (SCI-Expanded)

CXXVIII. Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, vol.842, 2023 (SCI-Expanded)

CXXIX. Combination of searches for invisible decays of the Higgs boson using 139 fb⁻¹ of proton-proton collision data at $\sqrt{s}=13$ TeV collected with the ATLAS experiment

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

PHYSICS LETTERS B, vol.842, 2023 (SCI-Expanded)

CXXX. Search for $t\bar{t}H/A \rightarrow t\bar{t}\tau\tau$ 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)

CXXXI. 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)

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

- Aad G., Abbott B., Abbott D. C., Abed Abud A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.7, 2023 (SCI-Expanded)
- CXXXIII. **ATLAS flavour-tagging algorithms for the LHC Run 2 \sqrt{s} pp 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)
- CXXXIV. **Search for excited τ -leptons and leptoquarks in the final state with τ -leptons and jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
 Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- CXXXV. **Charged-hadron production in pp , p plus Pb , Pb plus Pb , and Xe plus 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)
- CXXXVI. **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 $\sqrt{s} = 13$ 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)
- CXXXVII. **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)
- CXXXVIII. **Inclusive-photon production and its dependence on photon isolation in $\sqrt{s} = 13$ TeV pp collisions at $\sqrt{s} = 13$ TeV using 139 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)
- CXXXIX. **Search for new phenomena in final states with photons, jets and missing transverse momentum in $\sqrt{s} = 13$ TeV 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)
- CXL. **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)
- CXLI. **Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in $\sqrt{s} = 13$ 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)
- CXLII. **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)

- CXLIII. **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)
- CXLIV. **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)
- CXLV. **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., 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)
- CXLVI. **Search for resonant and non-resonant Higgs boson pair production in the $b\bar{b}\tau^+\tau^-$ decay channel using 13TeV pp collision data from the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.7, 2023 (SCI-Expanded)
- CXLVII. **Search for dark matter produced in association with a single top quark and an energetic W boson in $\sqrt{s}=13$ 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)
- CXLVIII. **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)
- CXLIX. **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)
- CL. **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)
- CLI. **Search for doubly charged Higgs boson production in multi-lepton final states using 139 fb^{-1} 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.
EUROPEAN PHYSICAL JOURNAL C, vol.83, no.7, 2023 (SCI-Expanded)
- CLII. **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)

CLIII. Measurement of the CP properties of Higgs boson interactions with τ -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)

CLIV. 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)

CLV. Search for supersymmetry in final states with missing transverse momentum and three or more b-jets in 139 fb⁻¹ of proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

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

CLVI. 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)

CLVII. Search for a new Z' gauge boson in 4μ 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)

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

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)

CLIX. Search for new phenomena in multi-body invariant masses in events with at least one isolated lepton and two jets using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector

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

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

CLX. 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)

CLXI. Measurement of exclusive pion pair production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector

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

European Physical Journal C, vol.83, no.7, 2023 (SCI-Expanded)

CLXII. 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)

CLXIII. Search for third-generation vector-like leptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS

detector

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

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

CLXIV. 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)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2023, no.7, 2023 (SCI-Expanded)

CLXVI. 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)

CLXVII. 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)

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

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

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

CLXIX. 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)

CLXX. 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)

CLXXI. 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)

CLXXII. 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⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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

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

CLXXIII. 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)

- CLXXIV. **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)
- CLXXV. **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)
- CLXXVI. **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)
- CLXXVII. **Search for flavour-changing neutral current interactions of the top quark and the Higgs boson in events with a pair of τ -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)
- CLXXVIII. **Measurement of the top-quark mass using a leptonic invariant mass in $\langle i \rangle pp \langle /i \rangle$ 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)
- CLXXIX. **Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in 139 fb^{-1} of $\sqrt{s}=13$ 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., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.83, no.6, 2023 (SCI-Expanded)
- CLXXX. **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)
- CLXXXI. **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)
- CLXXXII. **Measurement of substructure-dependent jet suppression in Pb plus Pb collisions at 5.02 TeV with the ATLAS detector**
Filmer E., Jackson P., Kong A., Potti H., Ruggieri T., Ting E., White M., Gingrich D., Lindon J., Nishu N., et al.
PHYSICAL REVIEW C, vol.107, no.5, 2023 (SCI-Expanded)
- CLXXXIII. **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)
- CLXXXIV. **Production of $\Upsilon(\langle i \rangle nS \langle /i \rangle)$ 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)
- CLXXXV. **Measurement of muon pairs produced via $\gamma\gamma$ scattering in nonultraperipheral Pb plus Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., 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)
- CLXXXVI. **Measurement of the total cross section and ρ -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)
- CLXXXVII. **Measurement of the nuclear modification factor of b-jets in 5.02 TeV Pb+Pb collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Hoffman A. C. A., et al.
European Physical Journal C, vol.83, no.5, 2023 (SCI-Expanded)
- .LXXXVIII. **Differential $\langle t \rangle$ ($\langle t \rangle$) over-tilde cross-section measurements using boosted top quarks in the all-hadronic final state with 139 fb[>] $\langle t \rangle$ -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)
- CLXXXIX. **Observation of electroweak production of two jets and a Z-boson pair**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
NATURE PHYSICS, vol.19, no.2, pp.237-253, 2023 (SCI-Expanded)
- CXC. **Search for type-III seesaw heavy leptons in leptonic final states in $\langle pp \rangle$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.11, 2022 (SCI-Expanded)
- CXCI. **Measurement of the polarisation of single top quarks and antiquarks produced in the $\langle t \rangle$ -channel at $\sqrt{s}=13$ TeV and bounds on the $\langle tWb \rangle$ 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)
- CXCII. **Investigating top-Higgs FCNC couplings at the FCC-hh**
Ozsimsek O. M., Arı V., Çakır O.
NUCLEAR PHYSICS B, vol.983, 2022 (SCI-Expanded)
- CXCIII. **Search for Higgs boson pair production in the two bottom quarks plus two photons final state in $\langle pp \rangle$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICAL REVIEW D, vol.106, no.5, 2022 (SCI-Expanded)
- CXCIV. **Observation of $\langle WWW \rangle$ Production in $\langle pp \rangle$ Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.129, no.6, 2022 (SCI-Expanded)

- CXCV. **Study of $B_c \rightarrow J/\psi D_s$ and $B_c \rightarrow J/\psi D_s^*$ decays in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)
- CXCVI. **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)
- CXCVII. **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)
- CXCVIII. **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)
- CXCIX. **Search for invisible Higgs-boson decays in events with vector-boson fusion signatures using 139 fb⁻¹ of proton-proton data recorded by the ATLAS experiment**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)
- CC. **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)
- CCI. **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)
- CCII. **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)
- CCIII. **A search for an unexpected asymmetry in the production of $e\mu$ and $e\mu$ pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.830, 2022 (SCI-Expanded)
- CCIV. **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)

- CCV. **Constraints on Higgs boson properties using $WW^*(\rightarrow e\nu\mu\nu)jj$ production in 36.1 fb^{-1} of $\sqrt{s}=13 \text{ TeV}$ 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.82, no.7, 2022 (SCI-Expanded)
- CCVI. **Search for long-lived charginos based on a disappearing-track signature using 136 fb^{-1} of 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.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.7, 2022 (SCI-Expanded)
- CCVII. **Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s}=13 \text{ TeV}$ 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)
- CCVIII. **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)
- CCIX. **Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates $\sqrt{s}=13 \text{ TeV}$ 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.
PHYSICS LETTERS B, vol.829, 2022 (SCI-Expanded)
- CCX. **Measurements of azimuthal anisotropies of jet production in Pb collisions at $\sqrt{s}=5.02 \text{ TeV}$ 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.
PHYSICAL REVIEW C, vol.105, no.6, 2022 (SCI-Expanded)
- CCXI. **Measurement of Higgs boson decay into $b\bar{b}$ -quarks in associated production with a top-quark pair in pp collisions at $\sqrt{s}=13 \text{ TeV}$ 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.2022, no.6, 2022 (SCI-Expanded)
- CCXII. **Search for neutral long-lived particles in pp collisions at $\sqrt{s}=13 \text{ TeV}$ 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)
- CCXIII. **Measurements of differential cross-sections in top-quark pair events with a high transverse momentum top quark and limits on beyond the Standard Model contributions to top-quark pair production with the ATLAS detector at $\sqrt{s}=13 \text{ TeV}$**
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)
- CCXIV. **Constraints on Higgs boson production with large transverse momentum using $H \rightarrow b\bar{b}(\bar{b}b)$ decays in the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)

- CCXV. **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)
- CCXVI. **Search for resonant pair production of Higgs bosons in the $b\bar{b}$ final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)
- CCXVII. **Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s}=7, 8$ and 13 TeV**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.5, 2022 (SCI-Expanded)
- CCXVIII. **Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.4, 2022 (SCI-Expanded)
- CCXIX. **Measurement of the energy asymmetry in $t\bar{t}$ production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.4, 2022 (SCI-Expanded)
- CCXX. **Measurement of the energy response of the ATLAS calorimeter to charged pions from W $\rightarrow \pi^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ events in Run 2 data**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.3, 2022 (SCI-Expanded)
- CCXXI. **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)
- CCXXII. **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 $^{-1}$ of pp collision data at $\sqrt{s}=13$ TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.3, 2022 (SCI-Expanded)
- CCXXIII. **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)
- CCXXIV. **Search for new phenomena in three- or four-lepton events 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., Abramowicz H.,

- Abreu H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.824, 2022 (SCI-Expanded)
- CCXXV. **Search for exotic decays of the Higgs boson into $\bar{b}b$ over-bar and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.1, 2022 (SCI-Expanded)
- CCXXVI. **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)
- CCXXVII. **Search for Higgs boson decays into a pair of pseudoscalar particles in the $b\bar{b}\mu\mu$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.105, no.1, 2022 (SCI-Expanded)
- CCXXVIII. **Studying Same-Sign Top Pair Production through Top-Higgs FCNC Interactions at the HL-LHC**
Ozsimek O., Ari V., Çakır O.
Advances in High Energy Physics, vol.2022, 2022 (SCI-Expanded)
- CCXXIX. **Measurement of the c -jet mistagging efficiency in $t(\bar{t})$ over-bar events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Aboulhorma A., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.1, 2022 (SCI-Expanded)
- CCXXX. **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)
- CCXXXI. **Search for heavy particles in the b -tagged dijet mass distribution with additional b -tagged jets in proton-proton collisions at $p\sqrt{s}=13$ TeV with the ATLAS experiment**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICAL REVIEW D, vol.105, no.1, 2022 (SCI-Expanded)
- CCXXXII. **Search for Lepton-Flavor Violation in Z -Boson Decays with τ 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)
- CCXXXIII. **Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICAL REVIEW D, vol.104, no.11, 2021 (SCI-Expanded)
- CCXXXIV. **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)
- CCXXXV. **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)
- CCXXXVI. **Measurement of b -quark fragmentation properties in jets using the decay $B\rightarrow J/\psi K$ in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**

- Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.12, 2021 (SCI-Expanded)
- CCXXXVII. **Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.12, 2021 (SCI-Expanded)
- :CXXXVIII. **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)
- CCXXXIX. **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)
- CCXL. **Measurement of the $t(t)\text{over-bar}(t)\text{over-bar}$ production cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2021 (SCI-Expanded)
- CCXLI. **Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.11, 2021 (SCI-Expanded)
- CCXLII. **Search for resonances decaying into photon pairs in 139 fb⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, vol.822, 2021 (SCI-Expanded)
- CCXLIII. **Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s}=13$ TeV using displaced vertices in the ATLAS inner detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., Abramowicz H., Abreu H., Abulaiti Y., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2021 (SCI-Expanded)
- CCXLIV. **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)
- CCXLV. **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)
- CCXLVI. **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)

- CCXLVII. **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)
- CCXLVIII. **Search for New Phenomena in Final States with Two Leptons and One or No b -Tagged Jets at $\sqrt{s}=13$ TeV Using the ATLAS Detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abramowicz H., Abreu H., Abulaiti Y., et al.
PHYSICAL REVIEW LETTERS, no.14, 2021 (SCI-Expanded)
- CCXLIX. **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)
- CCL. **Search for bottom-quark pair production in pp collision events at $s=13$ TeV with hadronically decaying τ -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)
- CCLI. **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)
- CCLII. **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)
- CCLIII. **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)
- CCLIV. **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)
- CCLV. **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)
- CCLVI. **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)
- CCLVII. **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)

- CCLVIII. **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)
- CCLIX. **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)
- CCLX. **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)
- CCLXI. **Search for Displaced Leptons in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.5, 2021 (SCI-Expanded)
- CCLXII. **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)
- CCLXIII. **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)
- CCLXIV. **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)
- CCLXV. **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)
- CCLXVI. **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)
- CCLXVII. **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)
- CCLXVIII. **Search for supersymmetry in events with four or more charged leptons in 139 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)
- CCLXIX. **Measurement of the relative Bc_{\pm} / B_{\pm} production cross section with the ATLAS detector at $s = 8$ TeV**

MEASUREMENT of the RELATIVE $B_{c\pm} / B_{\pm}$... AABOUD M. et al.

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

CCLXX. Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

Aad G., Abbott B., Abbott D., 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)

CCLXXI. Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ -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)

CCLXXII. 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)

CCLXXIII. 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)

CCLXXIV. Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector

Aad G., Abbott B., Abbott D., 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)

CCLXXV. 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)

CCLXXVI. 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)

CCLXXVII. Observation of photon-induced $W+W-$ production 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.816, 2021 (SCI-Expanded)

:CLXXVIII. 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 $\sqrt{s} = 13$ 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.816, 2021 (SCI-Expanded)

CCLXXIX. 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)

- CCLXXX. **Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell b\bar{b}$ and $\ell\ell WW$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.81, no.5, 2021 (SCI-Expanded)
- CCLXXXI. **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)
- CCLXXXII. **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)
- :CLXXXIII. **Measurement of the CP-violating phase ϕ_s in $B_s^0 \rightarrow J/\psi \phi$ 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)
- :CLXXXIV. **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)
- CCLXXXV. **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)
- :CLXXXVI. **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)
- CLXXXVII. **Search for heavy resonances decaying into a pair of Z bosons in the $\ell+\ell-\ell'+\ell'$ - and $\ell+\ell-\nu\nu^-$ final states using 139 fb⁻¹ 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)
- :LXXXVIII. **Longitudinal Flow Decorrelations in Xe+Xe Collisions at sNN =5.44 TeV with the ATLAS Detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review Letters, vol.126, no.12, 2021 (SCI-Expanded)
- :CLXXXIX. **Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into W \pm or ZZ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV pp Collisions Recorded with the ATLAS Detector**
Aad G., Abbott B., Abbott D., Abed Abud A., Abeling K., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.12, 2021 (SCI-Expanded)

CCXC. **Search for Higgs boson production in association with a high-energy photon via vector-boson fusion**

with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector

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

Journal of High Energy Physics, vol.2021, no.3, 2021 (SCI-Expanded)

CCXCII. Measurement of light-by-light scattering and search for axion-like particles with 2.2 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)

CCXCIII. Search for type-III seesaw heavy leptons in dilepton 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.81, no.3, 2021 (SCI-Expanded)

CCXCIII. Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector

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

Journal of High Energy Physics, vol.2021, no.2, 2021 (SCI-Expanded)

CCXCIV. 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)

CCXCV. Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb plus Pb Collisions at 5.02 TeV with the ATLAS Detector

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

PHYSICAL REVIEW LETTERS, no.7, 2021 (SCI-Expanded)

CCXCVI. Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at 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.2, 2021 (SCI-Expanded)

CCXCVII. Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2021 (SCI-Expanded)

CCXCVIII. 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)

CCXCIX. Measurement of the jet mass in high transverse momentum $Z(\rightarrow b\bar{b})\gamma$ production at $\sqrt{s}=13$ 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)

CCC. 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)

- CCCI. **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)
- CCCII. **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)
- CCCIII. **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)
- CCCIV. **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)
- CCCV. **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)
- CCCVI. **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)
- CCCVII. **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)
- CCCVIII. **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)
- CCCIX. **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)
- CCCX. **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)

- CCCXI. **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)
- CCCXII. **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)
- CCCXIII. **Reconstruction and identification of boosted di- τ 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)
- CCCXIV. **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)
- CCCXV. **Search for top squarks in events with a Higgs or Z boson using 139 fb⁻¹ 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)
- CCCXVI. **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)
- CCCXVII. **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)
- CCCXVIII. **Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s}=13$ 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)
- CCCXIX. **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)
- CCCXX. **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)
- CCCXXI. **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)
- CCCXXII. **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)
- CCCXXIII. **Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ 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)
- CCCXXIV. **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)
- CCCXXV. **Dijet Resonance Search with Weak Supervision Using $\sqrt{s} = 13$ 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, no.13, 2020 (SCI-Expanded)
- CCCXXVI. **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)
- CCCXXVII. **Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ 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)
- CCCXXVIII. **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)
- CCCXXIX. **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)
- CCCXXX. **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)
- CCCXXXI. **Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., 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)
- CCCXXXII. **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)

:CCXXXIII. 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)

:CCXXXIV. Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

Aad G., Abbott B., Abbott D., 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)

CCCXXXV. 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)

:CCXXXVI. Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at $\sqrt{s} = 13$ TeV

Aad G., Abbott B., Abbott D., 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)

CCXXXVII. 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)

:CCXXXVIII. Search for the $HH \rightarrow b\bar{b} b\bar{b}$ 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)

:CCXXXIX. 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)

CCCXL. 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)

CCCXLI. 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)

CCCXLII. 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)

CCCXLIII. 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)

CCCXLIV. Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

Aad G., Abbott B., Abbott D., 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)

CCCXLV. Search for squarks and gluinos in final states with same-sign leptons and jets using 139 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)

CCCXLVI. Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s}=13$ 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)

CCCXLVII. 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)

:CCXLVIII. 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)

CCCXLIX. 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)

CCCL. Z boson production in Pb+Pb collisions at $\sqrt{S_{NN}} = 5.02$ 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)

CCCLI. The projections on $ZZ\gamma$ and $Z\gamma\gamma$ couplings via $v\bar{v}\gamma$ 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)

CCCLII. 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)

CCCLIII. 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)

CCCLIV. 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)

CCCLV. 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)

CCCLVI. 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)

CCCLVII. Search for new resonances in mass distributions of jet pairs using 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., AbouZeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, vol.2020, no.3, 2020 (SCI-Expanded)

CCCLVIII. 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)

CCCLIX. Search for the Higgs boson decays $H \rightarrow ee$ and $H \rightarrow e\mu$ 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)

CCCLX. 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)

CCCLXI. 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)

CCCLXII. 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)

CCCLXIII. 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., Abidinov 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)

- CCCLXIV. **Search for direct stau production in events with two hadronic τ -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)
- CCCLXV. **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., Abidinov 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)
- CCCLXVI. **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)
- CCCLXVII. **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., Abidinov 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)
- CCCLXVIII. **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)
- CCCLXIX. **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)
- CCCLXX. **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)
- CCCLXXI. **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., Abidinov 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)
- CCCLXXII. **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., Abidinov 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)
- CCCLXXIII. **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)
- CCCLXXIV. **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)
- CCCLXXV. **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)
- :CCLXXVI. **Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ 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.
Physical Review C, vol.100, no.6, 2019 (SCI-Expanded)
- CCLXXVII. **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)
- :CLXXVIII. **Measurement of K_S^0 and Λ production in $tt^{\bar{}}$ dileptonic events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abidinov O., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
European Physical Journal C, vol.79, no.12, 2019 (SCI-Expanded)
- :CCLXXIX. **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., Abidinov 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)
- CCCLXXX. **Measurements of top-quark pair differential and double-differential cross-sections in the ℓ +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)
- :CCLXXXI. **Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abbott D., Abidinov 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)
- CCLXXXII. **Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \rightarrow \ell\nu\ell\nu$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abidinov 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)
- :CLXXXIII. **Evidence for the production of three massive vector bosons with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abidinov 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)
- :CLXXXIV. **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., Abidinov 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)
- CCLXXXV. **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)
- :CLXXXVI. **Measurement of the top-quark mass in $tt^- + 1$ -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)
- CLXXXVII. **ATLAS b-jet identification performance and efficiency measurement with tt^- 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)
- :LXXXVIII. **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)
- :CLXXXIX. **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)
- CCCXC. **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)
- CCCXCI. **Observation of Electroweak Production of a Same-Sign $\langle i \rangle W$ Boson Pair in Association with Two Jets in $\langle i \rangle pp$ Collisions $\sqrt{\langle i \rangle s} = 13$ 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, no.16, 2019 (SCI-Expanded)
- CCCXCII. **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)
- CCCXCIII. **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)
- CCCXCIV. **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)
- CCCXCV. **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)

- CCCXCVI. **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)
- CCCXCVII. **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)
- CCCXCVIII. **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)
- CCCXCIX. **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)
- CD. **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)
- CDI. **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)
- CDII. **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)
- CDIII. **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)
- CDIV. **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)
- CDV. **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)
- CDVI. **Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in 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.
Physical Review D, vol.100, no.3, 2019 (SCI-Expanded)
- CDVII. **Search for low-mass resonances decaying into two jets and produced in association with a photon using pp 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.795, pp.56-75, 2019 (SCI-Expanded)
- CDVIII. **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)
- CDIX. **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)
- CDX. **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)
- CDXI. **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)
- CDXII. **Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum 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.
Physical Review D, vol.100, no.1, 2019 (SCI-Expanded)
- CDXIII. **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)
- CDXIV. **Probing top quark FCNC $tq\gamma$ 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)
- CDXV. **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)
- CDXVI. **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)
- CDXVII. **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)
- CDXVIII. **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)
- CDXIX. **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)
- CDXX. **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)
- CDXXI. **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)
- CDXXII. **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)
- CDXXIII. **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)
- CDXXIV. **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)
- CDXXV. **Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13\text{TeV}$ that decay into displaced hadronic jets in the ATLAS calorimeter**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.79, no.6, 2019 (SCI-Expanded)
- CDXXVI. **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)
- CDXXVII. **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)
- CDXXVIII. **Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb⁻¹ of proton-proton collision data at $s = 13$ TeV**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.
Physical Review D, vol.99, no.9, 2019 (SCI-Expanded)
- CDXXIX. **Search for top-quark decays $t \rightarrow Hq$ with 36 fb⁻¹ of pp collision data 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.5, 2019 (SCI-Expanded)
- CDXXX. **Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $s = 13$ 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.
Physical Review D, vol.99, no.9, 2019 (SCI-Expanded)
- CDXXXI. **Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC**
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.5, 2019 (SCI-Expanded)
- CDXXXII. **Measurement of $VH, H \rightarrow b b^{-}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)
- CDXXXIII. **Combinations of single-top-quark production cross-section measurements and $|f_{LV} Vtb|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abed Abud A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)
- CDXXXIV. **Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)
- CDXXXV. **Measurements of inclusive and differential fiducial cross-sections of $t\bar{t} \gamma$ production in leptonic final states at $\sqrt{s}=13$ TeV in ATLAS**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
European Physical Journal C, vol.79, no.5, 2019 (SCI-Expanded)
- CDXXXVI. **Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)
- CDXXXVII. **Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)

- DXXXVIII. Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.5, 2019 (SCI-Expanded)
- CDXXXIX. Measurement of the $tt^{\bar{Z}}$ and $tt^{\bar{W}}$ cross sections in proton-proton collisions at $s=13$ 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.
Physical Review D, vol.99, no.7, 2019 (SCI-Expanded)
- CDXL. Cross-section measurements of the Higgs boson decaying into a pair of τ -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)
- CDXLI. Measurements of inclusive and differential fiducial cross-sections of $tt^{\bar{}}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.4, 2019 (SCI-Expanded)
- CDXLII. Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.4, 2019 (SCI-Expanded)
- CDXLIII. Measurement of the top quark mass in the $tt^{\bar{}} \rightarrow \text{lepton} + \text{jets}$ channel from $\sqrt{s}=8$ TeV ATLAS data and combination with previous results**
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.4, 2019 (SCI-Expanded)
- CDXLIV. Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.15, 2019 (SCI-Expanded)
- CDXLV. Study of the rare decays of B_s^0 and B^0 mesons into muon pairs using data collected during 2015 and 2016 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.4, 2019 (SCI-Expanded)
- CDXLVI. Search for Higgs boson pair production in the $bb^{\bar{}} WW^*$ decay mode 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.
Journal of High Energy Physics, vol.2019, no.4, 2019 (SCI-Expanded)
- CDXLVII. Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2019, no.4, 2019 (SCI-Expanded)

- CDXLVIII. **Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data**
Aaboud M., Aad G., Abbott B., Abbott D., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.
Journal of Instrumentation, vol.14, no.3, 2019 (SCI-Expanded)
- CDXLIX. **Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.790, pp.108-128, 2019 (SCI-Expanded)
- CDL. **Search for Higgs boson decays into a pair of light bosons in the $bb\mu\mu$ final state in pp collision 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.790, pp.1-21, 2019 (SCI-Expanded)
- CDLI. **Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states 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 D, vol.99, no.5, 2019 (SCI-Expanded)
- CDLII. **Search for heavy long-lived multicharged particles in proton-proton collisions at $s = 13$ TeV using 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 D, vol.99, no.5, 2019 (SCI-Expanded)
- CDLIII. **Search for long-lived particles produced in pp collisions at $s = 13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer**
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.5, 2019 (SCI-Expanded)
- CDLIV. **Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016**
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.3, 2019 (SCI-Expanded)
- CDLV. **Properties of $g \rightarrow b b$ at small opening angles in pp collisions with the ATLAS detector 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.
Physical Review D, vol.99, no.5, 2019 (SCI-Expanded)
- CDLVI. **Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.789, pp.167-190, 2019 (SCI-Expanded)
- CDLVII. **Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s}=13$ 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.789, pp.508-529, 2019 (SCI-Expanded)

CDLVIII. Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions 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.789, pp.444-471, 2019 (SCI-Expanded)

CDLIX. ATLAS Collaboration

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

Nuclear Physics A, vol.982, pp.985-1009, 2019 (SCI-Expanded)

CDLX. In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions 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.2, 2019 (SCI-Expanded)

CDLXI. Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ 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.

European Physical Journal C, vol.79, no.2, 2019 (SCI-Expanded)

CDLXII. A strategy for a general search for new phenomena using data-derived signal regions and its application within 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.2, 2019 (SCI-Expanded)

CDLXIII. Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.788, pp.316-335, 2019 (SCI-Expanded)

CDLXIV. Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s}=8$ 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.790, pp.595-614, 2019 (SCI-Expanded)

CDLXV. Search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

Physical Review D, vol.99, no.1, 2019 (SCI-Expanded)

CDLXVI. Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector

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

European Physical Journal C, vol.79, no.1, 2019 (SCI-Expanded)

CDLXVII. Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus

jets final state in pp collisions at $\sqrt{s}=13\text{TeV}$ 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.788, pp.347-370, 2019 (SCI-Expanded)

CDLXVIII. Search for squarks and gluinos in final states with hadronically decaying τ -leptons, jets, and missing transverse momentum using 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 D, vol.99, no.1, 2019 (SCI-Expanded)

CDLXIX. Probing anomalous $tq\gamma$ 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)

CDLXX. Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets 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.

Journal of High Energy Physics, vol.2019, no.1, 2019 (SCI-Expanded)

CDLXXI. Search for pair production of Higgs bosons in the $b(b)\text{over-bar}b(b)\text{over-bar}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.1, 2019 (SCI-Expanded)

CDLXXII. Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ using an ionisation measurement 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.96-116, 2019 (SCI-Expanded)

CDLXXIII. Search for long-lived particles in final states with displaced dimuon vertices 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 D, vol.99, no.1, 2019 (SCI-Expanded)

CDLXXIV. Search for resonant WZ production in the fully leptonic final state in proton-proton 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.787, pp.68-88, 2018 (SCI-Expanded)

CDLXXV. Operation and performance of the ATLAS Tile Calorimeter in Run 1

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., et al.

European Physical Journal C, vol.78, no.12, 2018 (SCI-Expanded)

CDLXXVI. Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s} \text{NN}=5.02$ TeV Pb+ Pb collisions 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, no.12, 2018 (SCI-Expanded)

CDLXXVII. Measurement of the $Z\gamma\rightarrow\nu\nu\gamma$ production cross section in pp collisions at $\sqrt{s}=13$ TeV with

the ATLAS detector and limits on anomalous triple gauge-boson couplings

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

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2018 (SCI-Expanded)

DLXXVIII. Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ≥ 13 TeV with the ATLAS detector

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

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2018 (SCI-Expanded)

CDLXXIX. Search for Higgs boson pair production in the $\gamma\gamma WW^*$ channel using pp collision data recorded 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.

European Physical Journal C, vol.78, no.12, 2018 (SCI-Expanded)

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

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

PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)

CDLXXXI. Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $\sqrt{s} = 4$ TeV

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

JOURNAL OF INSTRUMENTATION, 2018 (SCI-Expanded)

CDLXXXII. Combined measurement of differential and total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels 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.786, pp.114-133, 2018 (SCI-Expanded)

DLXXXIII. Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\nu$ final states 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.786, pp.223-244, 2018 (SCI-Expanded)

DLXXXIV. Observation of $H \rightarrow b\bar{b}$ decays and VH production 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.786, pp.59-86, 2018 (SCI-Expanded)

CDLXXXV. Searches for exclusive Higgs and Z boson decays into $J/\psi \gamma$, $\psi(2S) \gamma$, and $Y(nS) \gamma$ 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.786, pp.134-155, 2018 (SCI-Expanded)

DLXXXVI. Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b} \tau^+ \tau^-$ Decay Channel 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.
Physical Review Letters, vol.121, no.19, 2018 (SCI-Expanded)
- DLXXXVII. **Search for charged Higgs bosons decaying into top and bottom quarks 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.
Journal of High Energy Physics, vol.2018, no.11, 2018 (SCI-Expanded)
- LXXXVIII. **Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged 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.98, no.9, 2018 (SCI-Expanded)
- DLXXXIX. **Search for Higgs boson pair production in the $\gamma \gamma b\bar{b}$ final state with 13 TeV pp collision data collected by 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.
Journal of High Energy Physics, vol.2018, no.11, 2018 (SCI-Expanded)
- CDXC. **Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks 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.
PHYSICAL REVIEW LETTERS, no.21, 2018 (SCI-Expanded)
- CDXCI. **Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, no.9, 2018 (SCI-Expanded)
- CDXCII. **Search for pair production of Higgsinos in final states with at least three b -tagged jets in $s =13$ TeV pp collisions 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.
Physical Review D, vol.98, no.9, 2018 (SCI-Expanded)
- CDXCIII. **Search for lepton-flavor-violating decays of the Z boson into a τ lepton and a light lepton 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, no.9, 2018 (SCI-Expanded)
- CDXCIV. **Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.78, no.11, 2018 (SCI-Expanded)
- CDXCV. **Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb plus Pb Collisions at $\sqrt{s_{NN}}=5.02$ 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, no.21, 2018 (SCI-Expanded)
- CDXCVI. **Measurement of dijet azimuthal decorrelations in pp collisions at $s =8$ TeV with the ATLAS detector and determination of the strong coupling**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.

al.

Physical Review D, vol.98, no.9, 2018 (SCI-Expanded)

CDXCVII. Search for pair production of heavy vectorlike quarks decaying into hadronic final states 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 D, vol.98, no.9, 2018 (SCI-Expanded)

CDXCVIII. Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $s_{NN} = 2.76$ 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 C, vol.98, no.4, 2018 (SCI-Expanded)

CDXCIX. 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)

D. Search for R-parity-violating supersymmetric particles in multi-jet final states produced in p-p collisions at $s = 13$ TeV using the ATLAS detector at the LHC

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.785, pp.136-158, 2018 (SCI-Expanded)

DI. Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ 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.

Journal of High Energy Physics, vol.2018, no.10, 2018 (SCI-Expanded)

DII. Angular analysis of $B_d^0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s} = 8$ 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.

Journal of High Energy Physics, vol.2018, no.10, 2018 (SCI-Expanded)

DIII. Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

Nuclear Physics A, vol.978, pp.65-106, 2018 (SCI-Expanded)

DIV. Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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

Journal of High Energy Physics, vol.2018, no.10, 2018 (SCI-Expanded)

DV. Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV

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

European Physical Journal C, vol.78, no.10, 2018 (SCI-Expanded)

DVI. 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)

- DVII. **Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel 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.
Journal of High Energy Physics, vol.2018, no.10, 2018 (SCI-Expanded)
- DVIII. **Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb⁻¹ of proton-proton collision data 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.98, no.5, 2018 (SCI-Expanded)
- DX. **Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $s = 13$ TeV pp collisions 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.98, no.5, 2018 (SCI-Expanded)
- DX. **Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $s=13$ TeV pp collisions 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.784, pp.345-366, 2018 (SCI-Expanded)
- DXI. **Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions 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.
Journal of High Energy Physics, vol.2018, no.9, 2018 (SCI-Expanded)
- DXII. **Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ 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.
European Physical Journal C, vol.78, no.9, 2018 (SCI-Expanded)
- DXIII. **Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions 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.
European Physical Journal C, vol.78, no.9, 2018 (SCI-Expanded)
- DXIV. **Measurements of Higgs boson properties in the diphoton decay channel with 36 fb⁻¹ of pp collision data 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 D, vol.98, no.5, 2018 (SCI-Expanded)
- DXV. **Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ in the τ +jets and τ +lepton final states with 36 fb⁻¹ of pp collision data recorded at $\sqrt{s}=13$ 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.
Journal of High Energy Physics, vol.2018, no.9, 2018 (SCI-Expanded)
- DXVI. **Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
PHYSICS LETTERS B, vol.784, pp.173-191, 2018 (SCI-Expanded)

- DXVII. Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s} = 13$ 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)
- DXVIII. Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ 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 C, vol.98, no.2, 2018 (SCI-Expanded)
- DXIX. Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell b\bar{b}$ final state 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.783, pp.392-414, 2018 (SCI-Expanded)
- DX. Search for pair production of heavy vector-like quarks decaying into high-p T W bosons and top quarks 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.
Journal of High Energy Physics, vol.2018, no.8, 2018 (SCI-Expanded)
- DXI. Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physical Review D, vol.98, no.3, 2018 (SCI-Expanded)
- DXII. Search for heavy resonances decaying to a photon and a hadronically decaying Z /W /H boson 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 D, vol.98, no.3, 2018 (SCI-Expanded)
- DXIII. Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.98, no.3, 2018 (SCI-Expanded)
- DXIV. Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions 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.
European Physical Journal C, vol.78, no.8, 2018 (SCI-Expanded)
- DXV. Search for top squarks decaying to tau sleptons 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 D, vol.98, no.3, 2018 (SCI-Expanded)
- DXVI. Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2018, no.8, 2018 (SCI-Expanded)

- DXXVII. **Search for resonances in the mass distribution of jet pairs with one or two jets identified as b -jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.98, no.3, 2018 (SCI-Expanded)
- DXXVIII. **Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.782, pp.750-767, 2018 (SCI-Expanded)
- DXXIX. **Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.78, no.7, 2018 (SCI-Expanded)
- DXXX. **Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets 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.
Journal of High Energy Physics, vol.2018, no.7, 2018 (SCI-Expanded)
- DXXXI. **Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ 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.
Journal of High Energy Physics, vol.2018, no.7, 2018 (SCI-Expanded)
- DXXXII. **Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton 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.
Journal of High Energy Physics, vol.2018, no.7, 2018 (SCI-Expanded)
- DXXXIII. **Search for $W' \rightarrow tb$ decays in the hadronic final state using 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.781, pp.327-348, 2018 (SCI-Expanded)
- DXXXIV. **Measurement of the production cross section of three isolated photons in pp 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.781, pp.55-76, 2018 (SCI-Expanded)
- DXXXV. **Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb⁻¹ of $\sqrt{s} = 13$ TeV pp collision data 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 D, vol.97, no.11, 2018 (SCI-Expanded)
- DXXXVI. **Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb⁻¹ of $\sqrt{s}=13$ TeV pp collision data 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.

- Journal of High Energy Physics, vol.2018, no.6, 2018 (SCI-Expanded)
- DXXXVII. **Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8\text{TeV}$ 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.
European Physical Journal C, vol.78, no.6, 2018 (SCI-Expanded)
- DXXXVIII. **Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ 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.
Journal of High Energy Physics, vol.2018, no.6, 2018 (SCI-Expanded)
- DXXXIX. **Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13\text{ TeV}$ 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.
Journal of High Energy Physics, vol.2018, no.6, 2018 (SCI-Expanded)
- DXL. **Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13\text{ TeV}$**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2018, no.6, 2018 (SCI-Expanded)
- DXLI. **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)
- DXLII. **Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.780, pp.557-577, 2018 (SCI-Expanded)
- DXLIII. **Measurement of the cross section for isolated-photon plus jet production in ppcollisions at $\sqrt{s}=13\text{TeV}$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.780, pp.578-602, 2018 (SCI-Expanded)
- DXLIV. **Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ 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.
Journal of High Energy Physics, vol.2018, no.5, 2018 (SCI-Expanded)
- DXLV. **Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at $\sqrt{s}=13\text{ TeV}$ 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.
European Physical Journal C, vol.78, no.5, 2018 (SCI-Expanded)
- DXLVI. **Search for a Structure in the $B\langle i\rangle\langle sub\rangle s\langle /sub\rangle\langle /i\rangle\langle SUP\rangle 0\langle /SUP\rangle \pi\langle SUP\rangle \pm\langle /SUP\rangle$ 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, no.20, 2018 (SCI-Expanded)

DXLVII. Measurement of differential cross sections and $W + \gamma$ – cross-section ratios for W boson production in association with jets at $\sqrt{s}=8$ 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.

Journal of High Energy Physics, vol.2018, no.5, 2018 (SCI-Expanded)

DXLVIII. A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow qqbb$ final state 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.779, pp.24-45, 2018 (SCI-Expanded)

DXLIX. 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, no.16, 2018 (SCI-Expanded)

DL. Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair 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 D, vol.97, no.7, 2018 (SCI-Expanded)

DLI. Search for heavy ZZ resonances in the $\ell+\ell-\ell+\ell-$ and $\ell+\ell-\nu\nu-$ final states using proton–proton 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.

European Physical Journal C, vol.78, no.4, 2018 (SCI-Expanded)

DLII. Evidence for the associated production of the Higgs boson and a top quark pair 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 D, vol.97, no.7, 2018 (SCI-Expanded)

DLIII. Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS

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.78, no.3, 2018 (SCI-Expanded)

DLIV. Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions 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 D, vol.97, no.5, 2018 (SCI-Expanded)

DLV. Searches for heavy ZZ and ZW resonances in the $\ell\ell qq$ and $\nu\nu qq$ final states 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.

Journal of High Energy Physics, vol.2018, no.3, 2018 (SCI-Expanded)

DLVI. Search for $W W/W Z$ resonance production in $\ell\nu qq$ final states 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.

- Journal of High Energy Physics, vol.2018, no.3, 2018 (SCI-Expanded)
- DLVII. **Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel 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.
Journal of High Energy Physics, vol.2018, no.3, 2018 (SCI-Expanded)
- DLVIII. **Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton–proton collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.78, no.3, 2018 (SCI-Expanded)
- DLIX. **Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb⁻¹ of $\sqrt{s}=13$ TeV pp collisions 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.
Journal of High Energy Physics, vol.2018, no.3, 2018 (SCI-Expanded)
- DLX. **Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra 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 D, vol.97, no.5, 2018 (SCI-Expanded)
- DLXI. **Measurement of quarkonium production in proton–lead and proton–proton collisions at 5.02 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.78, no.3, 2018 (SCI-Expanded)
- DLXII. **A search for pair-produced resonances in four-jet final states 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.
European Physical Journal C, vol.78, no.3, 2018 (SCI-Expanded)
- DLXIII. **Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in pp and p +Pb collisions with the ATLAS detector at the CERN Large Hadron Collider**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physical Review C, vol.97, no.2, 2018 (SCI-Expanded)
- DLXIV. **Measurement of the exclusive $\gamma\gamma \rightarrow \mu^+\mu^-$ process in proton–proton 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.777, pp.303-323, 2018 (SCI-Expanded)
- DLXV. **Search for diboson resonances with boson-tagged jets 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.777, pp.91-113, 2018 (SCI-Expanded)
- DLXVI. **Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s}=8$ TeV 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.

- European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXVII. **Search for new phenomena in high-mass final states with a photon and a jet from 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.
European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXVIII. **Measurement of the W-boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXIX. **Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions 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.
European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXX. **Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.02 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.
European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXXI. **Measurement of τ polarisation in $Z/\gamma^* \rightarrow \tau\tau$ decays in proton-proton collisions at $\sqrt{s}=8$ 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.
European Physical Journal C, vol.78, no.2, 2018 (SCI-Expanded)
- DLXXII. **Search for B - L R-parity-violating top squarks in $\sqrt{s}=13$ TeV pp collisions 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 D, vol.97, no.3, 2018 (SCI-Expanded)
- DLXXIII. **Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z boson in pp collisions at $s=13$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.776, pp.318-337, 2018 (SCI-Expanded)
- DLXXIV. **Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $s=8$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.776, pp.295-317, 2018 (SCI-Expanded)
- DLXXV. **Search for heavy resonances decaying into WW in the $e\nu\mu\nu$ final state 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.
European Physical Journal C, vol.78, no.1, 2018 (SCI-Expanded)
- DLXXVI. **Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 13$ 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.

- Physical Review D, vol.98, no.1, 2018 (SCI-Expanded)
- DLXXVII. **Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions 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 D, vol.97, no.9, 2018 (SCI-Expanded)
- DLXXVIII. **Z Z \rightarrow + - ' + ' - s-section measurements and search for anomalous triple gauge couplings in 13 TeV p p collisions 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 D, vol.97, no.3, 2018 (SCI-Expanded)
- DLXXIX. **Search for electroweak production of supersymmetric particles in final states with two or three leptons 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.
European Physical Journal C, vol.78, no.12, 2018 (SCI-Expanded)
- DLXXX. **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)
- DLXXXI. **Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions 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.
European Physical Journal C, vol.78, no.1, 2018 (SCI-Expanded)
- DLXXXII. **Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb⁻¹ of 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.
Journal of High Energy Physics, vol.2018, no.1, 2018 (SCI-Expanded)
- DLXXXIII. **Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum 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.
Journal of High Energy Physics, vol.2018, no.1, 2018 (SCI-Expanded)
- DLXXXIV. **Combination of inclusive and differential tt⁻ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicovic M., Erö J., et al.
Journal of High Energy Physics, vol.2018, no.4, 2018 (SCI-Expanded)
- DLXXXV. **Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s}=13$ TeV with ATLAS**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2018, no.1, 2018 (SCI-Expanded)
- DLXXXVI. **Femtосcopy with identified charged pions in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review C, vol.96, no.6, 2017 (SCI-Expanded)
- DLXXXVII. **Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $s=13$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.775, pp.206-228, 2017 (SCI-Expanded)
- DLXXXVIII. **Search for new phenomena in high-mass diphoton final states using 37 fb⁻¹ of proton-proton collisions collected 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.775, pp.105-125, 2017 (SCI-Expanded)
- DLXXXIX. **Study of the material of the ATLAS inner detector for Run 2 of the LHC**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Journal of Instrumentation, vol.12, no.12, 2017 (SCI-Expanded)
- DXC. **Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13$ TeV pp collisions 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.
European Physical Journal C, vol.77, no.12, 2017 (SCI-Expanded)
- DXCI. **Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state 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.
Journal of High Energy Physics, vol.2017, no.12, 2017 (SCI-Expanded)
- DXCII. **Search for dark matter in association with a Higgs boson decaying to two photons 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 D, vol.96, no.11, 2017 (SCI-Expanded)
- DXCIII. **Determination of the strong coupling constant α_s from transverse energy-energy correlations in multijet events at $\sqrt{s}=8$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.12, 2017 (SCI-Expanded)
- DXCIV. **Evidence for the $H \rightarrow b\bar{b}$ decay 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.
Journal of High Energy Physics, vol.2017, no.12, pp.1-69, 2017 (SCI-Expanded)
- DXCV. **Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum 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 D, vol.96, no.11, 2017 (SCI-Expanded)
- DXCVI. **Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.12, 2017 (SCI-Expanded)
- DXCVII. **Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.

et al.

Journal of High Energy Physics, vol.2017, no.12, 2017 (SCI-Expanded)

DXCVIII. Study of ordered hadron chains 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 D, vol.96, no.9, 2017 (SCI-Expanded)

DXCIX. Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $qq^{\prime}bb^{\prime}$ final state 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.774, pp.494-515, 2017 (SCI-Expanded)

DC. Measurement of jet pT correlations in Pb + Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.774, pp.379-402, 2017 (SCI-Expanded)

DCI. Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, vol.2017, no.11, 2017 (SCI-Expanded)

DCII. Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ production in pp collisions at $\sqrt{s}=8$ 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.

European Physical Journal C, vol.77, no.11, 2017 (SCI-Expanded)

DCIII. Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s}=8$ 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.

Journal of High Energy Physics, vol.2017, no.11, 2017 (SCI-Expanded)

DCIV. Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.

Journal of High Energy Physics, vol.2017, no.11, 2017 (SCI-Expanded)

DCV. Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using 36 fb^{-1} of 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, no.18, 2017 (SCI-Expanded)

DCVI. Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

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

Journal of High Energy Physics, vol.2017, no.11, 2017 (SCI-Expanded)

DCVII. Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ 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.

al.

PHYSICAL REVIEW LETTERS, no.19, 2017 (SCI-Expanded)

- DCVIII. **Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.11, 2017 (SCI-Expanded)
- DCIX. **Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.96, no.7, 2017 (SCI-Expanded)
- DCX. **Measurement of the $W+W-$ production cross section in pp collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiments**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.773, pp.354-374, 2017 (SCI-Expanded)
- DCXI. **Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks 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., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2017, no.10, 2017 (SCI-Expanded)
- DCXII. **Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \gamma\gamma$, in $\sqrt{s}=13$ TeV pp collisions 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.
Journal of High Energy Physics, vol.2017, no.10, 2017 (SCI-Expanded)
- DCXIII. **Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.10, 2017 (SCI-Expanded)
- DCXIV. **Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances 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.
Journal of High Energy Physics, vol.2017, no.10, 2017 (SCI-Expanded)
- DCXV. **Search for new high-mass phenomena in the dilepton final state using 36 fb $^{-1}$ of proton-proton collision data 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.
Journal of High Energy Physics, vol.2017, no.10, 2017 (SCI-Expanded)
- DCXVI. **Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel 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.
Journal of High Energy Physics, vol.2017, no.10, 2017 (SCI-Expanded)
- DCXVII. **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)

- DCXVIII. **Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.9, 2017 (SCI-Expanded)
- DCXIX. **Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.9, 2017 (SCI-Expanded)
- DCXX. **Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $\sqrt{s}=8$ TeV and search for anomalous quartic gauge couplings with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.9, 2017 (SCI-Expanded)
- DCXXI. **Top-quark mass measurement in the all-hadronic $t\bar{t}$ decay channel at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.9, 2017 (SCI-Expanded)
- DCXXII. **Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2017, no.9, 2017 (SCI-Expanded)
- DCXXIII. **Search for new phenomena in dijet events using 37 fb⁻¹ of pp collision data collected at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.96, no.5, 2017 (SCI-Expanded)
- DCXXIV. **Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb⁻¹ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector**
The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.9, 2017 (SCI-Expanded)
- DCXXV. **Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for pp collisions at $s=5.02$ and 13 TeV and p+Pb collisions at $s_{NN}=5.02$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physical Review C, vol.96, no.2, 2017 (SCI-Expanded)
- DCXXVI. **Measurement of $WW/WZ/l\gamma qq'$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.8, 2017 (SCI-Expanded)
- DCXXVII. **Measurement of the k_t splitting scales in $Z \rightarrow \ell\ell$ events in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.8, 2017 (SCI-Expanded)

- DCXXVIII. **Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions 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.
Journal of High Energy Physics, vol.2017, no.8, 2017 (SCI-Expanded)
- DCXXIX. **Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions 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.
Journal of High Energy Physics, vol.2017, no.8, 2017 (SCI-Expanded)
- DCXXX. **Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.8, 2017 (SCI-Expanded)
- DCXXXI. **Search for the Dimuon Decay of the Higgs Boson 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, no.5, 2017 (SCI-Expanded)
- DCXXXII. **Measurement of the cross section for inclusive isolated-photon production in pp collisions at $s=13$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.770, pp.473-493, 2017 (SCI-Expanded)
- DCXXXIII. **Measurements of electroweak Wjj production and constraints on anomalous gauge couplings with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.7, 2017 (SCI-Expanded)
- DCXXXIV. **Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.77, no.7, 2017 (SCI-Expanded)
- DCXXXV. **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)
- DCXXXVI. **Studies of $Z\gamma$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, vol.2017, no.7, 2017 (SCI-Expanded)
- DCXXXVII. **Jet reconstruction and performance using particle flow with the ATLAS Detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.7, 2017 (SCI-Expanded)
- DCXXXVIII. **Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review C, vol.95, no.6, 2017 (SCI-Expanded)

- DCXXXIX. **Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.95, no.11, 2017 (SCI-Expanded)
- DCXL. **Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.6, 2017 (SCI-Expanded)
- DCXLI. **Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector at the LHC**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.6, 2017 (SCI-Expanded)
- DCXLII. **Measurement of multi-particle azimuthal correlations in pp, p + Pb and low-multiplicity Pb + Pb collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.6, 2017 (SCI-Expanded)
- DCXLIII. **Precision measurement and interpretation of inclusive W^+ , W^- and Z/γ^* production cross sections with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.6, 2017 (SCI-Expanded)
- DCXLIV. **Search for dark matter at $\sqrt{s}=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.6, 2017 (SCI-Expanded)
- DCXLV. **Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: Tracker properties**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S., Abouzeid O., Abraham N., Abramowicz H., et al.
Journal of Instrumentation, vol.12, no.5, 2017 (SCI-Expanded)
- DCXLVI. **Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton–proton collisions at the LHC**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.5, 2017 (SCI-Expanded)
- DCXLVII. **High-ET isolated-photon plus jets production in pp collisions at $s=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Nuclear Physics B, vol.918, pp.257-316, 2017 (SCI-Expanded)
- DCXLVIII. **Measurements of top-quark pair differential cross-sections in the $e\mu$ channel in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.5, 2017 (SCI-Expanded)
- DCXLIX. **Performance of the ATLAS trigger system in 2015**
Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, vol.77, no.5, 2017 (SCI-Expanded)

- DCL. **Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.4, 2017 (SCI-Expanded)
- DCLI. **Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.4, 2017 (SCI-Expanded)
- DCLII. **Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2017, no.4, 2017 (SCI-Expanded)
- DCLIII. **Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.4, 2017 (SCI-Expanded)
- DCLIV. **Measurement of the t t production cross section in the τ +jets final state in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physical Review D, vol.95, no.7, 2017 (SCI-Expanded)
- DCLV. **Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.4, 2017 (SCI-Expanded)
- DCLVI. **Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton 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.
Journal of High Energy Physics, vol.2017, no.3, 2017 (SCI-Expanded)
- DCLVII. **Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.77, no.3, 2017 (SCI-Expanded)
- DCLVIII. **Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2017, no.3, 2017 (SCI-Expanded)
- DCLIX. **Search for triboson $W_{\pm}W_{\pm}W_{\mp}$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.3, 2017 (SCI-Expanded)
- DCLX. **Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision**

data

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.

European Physical Journal C, vol.77, no.3, 2017 (SCI-Expanded)

DCLXI. Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s}=8$ TeV using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.765, pp.132-153, 2017 (SCI-Expanded)

DCLXII. Search for dark matter in association with a Higgs boson decaying to b-quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.765, pp.11-31, 2017 (SCI-Expanded)

DCLXIII. Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\ell+\ell-bb^{-}$, $\ell\nu bb^{-}$, and $\nu\nu^{-}bb^{-}$ channels with pp collisions at $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.765, pp.32-52, 2017 (SCI-Expanded)

DCLXIV. Search for anomalous electroweak production of WW /WZ in association with a high-mass dijet system in pp collisions at $s = 8$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review D, vol.95, no.3, 2017 (SCI-Expanded)

DCLXV. Measurement of the prompt J/ ψ pair production cross-section in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, vol.77, no.2, 2017 (SCI-Expanded)

DCLXVI. Measurements of top-quark pair to Z-boson cross-section ratios at $\sqrt{s}=13, 8, 7$ TeV with the ATLAS detector

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

Journal of High Energy Physics, vol.2017, no.2, 2017 (SCI-Expanded)

DCLXVII. Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2017, no.2, 2017 (SCI-Expanded)

DCLXVIII. Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, vol.77, no.2, 2017 (SCI-Expanded)

DCLXIX. Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.764, pp.11-30, 2017 (SCI-

Expanded)

- DCLXX. **ATLAS Collaboration**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., et al.
Nuclear Physics A, vol.967, pp.942-964, 2017 (SCI-Expanded)
- DCLXXI. **Measurements of $\Psi(2S)$ and $X(3872) \rightarrow J/\psi \pi + \pi^-$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.1, 2017 (SCI-Expanded)
- DCLXXII. **Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV using the ZZ $\rightarrow \ell-\ell+\ell'-\ell'+$ and ZZ $\rightarrow \ell-\ell+\nu\nu^-$ decay channels with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2017, no.1, 2017 (SCI-Expanded)
- DCLXXIII. **Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.1, 2017 (SCI-Expanded)
- DCLXXIV. **Probing the Anomalous FCNC tq γ 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)
- DCLXXV. **Measurement of $W^\pm W^\pm$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.96, no.1, 2017 (SCI-Expanded)
- DCLXXVI. **A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.77, no.1, 2017 (SCI-Expanded)
- DCLXXVII. **Measurement of $W+W$ -production in association with one jet in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.763, pp.114-133, 2016 (SCI-Expanded)
- DCLXXVIII. **Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s}=5.02$ TeV p + Pb collisions measured by the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.763, pp.313-336, 2016 (SCI-Expanded)
- DCLXXIX. **Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.763, pp.251-268, 2016 (SCI-Expanded)

- DCLXXX. **Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector**
Aad G., Abbott B., Abdinov O., Abdallah J., Abeloos B., Abolins M., Aben R., Aben R., Abolins M., AbouZeid O., et al.
European Physical Journal C, vol.76, no.12, 2016 (SCI-Expanded)
- DCLXXXI. **Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.12, 2016 (SCI-Expanded)
- DCLXXXII. **ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Nuclear Physics A, vol.956, pp.922-944, 2016 (SCI-Expanded)
- DCLXXXIII. **Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.12, 2016 (SCI-Expanded)
- DCLXXXIV. **Measurement of the $bb\bar{}$ dijet cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.12, 2016 (SCI-Expanded)
- DCLXXXV. **Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV recorded with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.12, 2016 (SCI-Expanded)
- DCLXXXVI. **Measurement of top quark pair differential cross sections in the dilepton channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.94, no.9, 2016 (SCI-Expanded)
- CLXXXVII. **Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.762, pp.334-352, 2016 (SCI-Expanded)
- .LXXXVIII. **Measurement of the $W\pm Z$ boson pair-production cross section in pp collisions at $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.762, pp.1-22, 2016 (SCI-Expanded)
- DCLXXXIX. **Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.11, 2016 (SCI-Expanded)
- DCXC. **Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

- Journal of High Energy Physics, vol.2016, no.11, 2016 (SCI-Expanded)
- DCXCI. **Search for minimal supersymmetric standard model Higgs Bosons H/A and for a Z' boson in the $\tau\tau$ final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.11, 2016 (SCI-Expanded)
- DCXCII. **Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.11, 2016 (SCI-Expanded)
- DCXCIII. **A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7TeV pp collisions**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of Instrumentation, vol.11, no.11, 2016 (SCI-Expanded)
- DCXCIV. **Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.11, 2016 (SCI-Expanded)
- DCXCV. **Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review Letters, vol.117, no.18, 2016 (SCI-Expanded)
- DCXCVI. **Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.761, pp.136-157, 2016 (SCI-Expanded)
- DCXCVII. **Measurement of the top quark mass in the $t\bar{t} \rightarrow$ dilepton channel from $\sqrt{s}=8$ TeV ATLAS data**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.761, pp.350-371, 2016 (SCI-Expanded)
- DCXCVIII. **Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.761, pp.372-392, 2016 (SCI-Expanded)
- DCXCIX. **The performance of the jet trigger for the ATLAS detector during 2011 data taking**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.10, 2016 (SCI-Expanded)
- DCC. **Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.76, no.10, 2016 (SCI-Expanded)

- DCCI. **Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8\text{TeV}$ using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.10, 2016 (SCI-Expanded)
- DCCII. **Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.10, 2016 (SCI-Expanded)
- DCCIII. **Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.10, 2016 (SCI-Expanded)
- DCCIV. **Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $s = 13\text{ TeV}$ pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.94, no.5, 2016 (SCI-Expanded)
- DCCV. **Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s}=13\text{ TeV}$**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.760, pp.520-537, 2016 (SCI-Expanded)
- DCCVI. **Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb^{-1} of proton-proton collision data at $\sqrt{s}=13\text{ TeV}$**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.760, pp.647-665, 2016 (SCI-Expanded)
- DCCVII. **Search for Higgs and Z Boson Decays to $\phi\gamma$ with the ATLAS Detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review Letters, vol.117, no.11, 2016 (SCI-Expanded)
- DCCVIII. **Search for pair production of Higgs bosons in the bbbb final state using proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
Physical Review D, vol.94, no.5, 2016 (SCI-Expanded)
- DCCIX. **Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s}=8\text{ TeV}$ proton-proton collisions**
The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, vol.2016, no.9, 2016 (SCI-Expanded)
- DCCX. **Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.9, 2016 (SCI-Expanded)
- DCCXI. **Measurement of jet activity in top quark events using the $e\mu$ final state with two b-tagged jets in pp**

collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., et al.

Journal of High Energy Physics, vol.2016, no.9, 2016 (SCI-Expanded)

DCCXII. Searches for heavy diboson resonances in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., et al.

Journal of High Energy Physics, vol.2016, no.9, 2016 (SCI-Expanded)

DCCXIII. Measurement of total and differential $W + W -$ production cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2016, no.9, 2016 (SCI-Expanded)

DCCXIV. Charged-particle distributions at low transverse momentum in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, vol.76, no.9, 2016 (SCI-Expanded)

DCCXV. Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the LHC using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

European Physical Journal C, vol.76, no.9, 2016 (SCI-Expanded)

DCCXVI. Search for resonances in diphoton events at $\sqrt{s}=13$ TeV with the ATLAS detector

The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., et al.

Journal of High Energy Physics, vol.2016, no.9, 2016 (SCI-Expanded)

DCCXVII. Measurement of exclusive $\gamma\gamma \rightarrow W+W-$ production and search for exclusive Higgs boson production in pp collisions at $s = 8$ TeV using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review D, vol.94, no.3, 2016 (SCI-Expanded)

DCCXVIII. Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $s = 8$ TeV with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review D, vol.94, no.3, 2016 (SCI-Expanded)

DCCXIX. Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau\nu$ using pp collision data recorded at $\sqrt{s}=13$ TeV by the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.759, pp.555-574, 2016 (SCI-Expanded)

DCCXX. Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.759, pp.229-246, 2016 (SCI-Expanded)

DCCXXI. Measurement of W^\pm and Z-boson production cross sections in pp collisions at $\sqrt{s}=13$ TeV with the

ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.759, pp.601-621, 2016 (SCI-Expanded)

- DCCXXII. **Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $s = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., Abreu H., et al.
Physical Review D, vol.94, no.3, 2016 (SCI-Expanded)
- DCCXXIII. **Measurement of the inclusive isolated prompt photon cross section in pp collisions at $s=8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXIV. **Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow e\nu\mu\nu$ with the ATLAS detector at $\sqrt{s}=8$ TeV**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXV. **Measurement of the CP-violating phase ϕ_s and the B_s meson decay width difference with $B_s \rightarrow J/\psi\phi$ decays in ATLAS**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXVI. **Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXVII. **Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXVIII. **Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.94, no.3, 2016 (SCI-Expanded)
- DCCXXIX. **Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.76, no.8, 2016 (SCI-Expanded)
- DCCXXX. **Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.8, 2016 (SCI-Expanded)
- DCCXXXI. **Search for single production of a vector-like quark via a heavy gluon in the $4b$ final state with the**

ATLAS detector in pp collisions at $s=8$ TeV

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.758, pp.249-268, 2016 (SCI-Expanded)

DCCXXXII. Charged-particle distributions in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.758, pp.67-88, 2016 (SCI-Expanded)

DCCXXXIII. A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., et al.

New Journal of Physics, vol.18, no.7, 2016 (SCI-Expanded)

DCCXXXIV. 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)

DCCXXXV. Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $s = 13$ TeV using the ATLAS experiment

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review D, vol.93, no.11, 2016 (SCI-Expanded)

DCCXXXVI. Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s}=13$ TeV proton-proton collisions

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.757, pp.334-355, 2016 (SCI-Expanded)

DCCXXXVII. Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in pp collisions at $s = 8$ TeV with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., Abouzeid O., Abraham N., Abramowicz H., et al.

Physical Review D, vol.93, no.11, 2016 (SCI-Expanded)

DCCXXXVIII. A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s} = 8$ TeV proton-proton collisions

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., et al.

Journal of High Energy Physics, vol.2016, no.6, pp.1-49, 2016 (SCI-Expanded)

DCCXXXIX. Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector

Atlas Collaboration C., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., et al.

European Physical Journal C, vol.76, no.6, pp.1-23, 2016 (SCI-Expanded)

DCCXL. Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., et al.

Journal of High Energy Physics, vol.2016, no.6, pp.1-41, 2016 (SCI-Expanded)

DCCXLI. Measurement of the relative width difference of the $B^0 - B^{\bar{0}}$ system with the ATLAS detector

The ATLAS collaboration A., Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O.,

- Abraham N., et al.
Journal of High Energy Physics, vol.2016, no.6, 2016 (SCI-Expanded)
- DCCXLII. **Measurement of $D^*\pm$, D^\pm and D_s^\pm meson production cross sections in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Nuclear Physics B, vol.907, pp.717-763, 2016 (SCI-Expanded)
- DCCXLIII. **Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.6, 2016 (SCI-Expanded)
- DCCXLIV. **Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $s=13$ TeV**
Atlas Collaboration C., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)
- DCCXLV. **Measurement of the transverse momentum and $\phi\eta^*$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Atlas Collaboration C., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)
- DCCXLVI. **Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of Instrumentation, vol.11, no.5, 2016 (SCI-Expanded)
- DCCXLVII. **Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $s=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.93, no.9, 2016 (SCI-Expanded)
- DCCXLVIII. **Evidence for single top-quark production in the s-channel in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector using the Matrix Element Method**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.756, pp.228-246, 2016 (SCI-Expanded)
- DCCXLIX. **Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s}=8$ TeV pp collision data collected by the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.756, pp.52-71, 2016 (SCI-Expanded)
- DCCL. **Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s}=2.76$ TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.756, pp.10-28, 2016 (SCI-Expanded)
- DCCLI. **A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector**
Atlas Collaboration C., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)

- DCCLII. **Search for the Standard Model Higgs boson decaying into bb^- produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A, Aad G, Abbott B, Abdallah J, Abdinov O, Abeloos B, Aben R, Abolins M, AbouZeid O, Abraham N, et al.
Journal of High Energy Physics, vol.2016, no.5, 2016 (SCI-Expanded)
- DCCLIII. **Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment**
Atlas Collaboration C, Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, AbouZeid O, Abramowicz H, Abreu H, et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)
- DCCLIV. **Measurements of $W^{\pm}Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings**
Aad G, Abbott B, Abdallah J, Abdinov O, Abeloos B, Aben R, Abolins M, Abouzeid O, Abramowicz H, Abreu H, et al.
PHYSICAL REVIEW D, no.9, 2016 (SCI-Expanded)
- DCCLV. **Search for supersymmetry at $\sqrt{s} = 13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector**
Atlas Collaboration C, Aad G, Abbott B, Abdallah J, Abdinov O, Abeloos B, Aben R, Abolins M, AbouZeid O, Abramowicz H, et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)
- DCCLVI. **Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $s = 8$ TeV with the ATLAS detector**
Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, Abouzeid O, Abramowicz H, Abreu H, Abreu R, et al.
Physical Review D, vol.93, no.7, 2016 (SCI-Expanded)
- DCCLVII. **Combination of searches for WW, WZ, and ZZ resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, AbouZeid O, Abramowicz H, Abreu H, Abreu R, et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.755, pp.285-305, 2016 (SCI-Expanded)
- DCCLVIII. **Performance of b-jet identification in the ATLAS experiment**
Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, AbouZeid O, Abramowicz H, Abreu H, Abreu R, et al.
Journal of Instrumentation, vol.11, no.4, 2016 (SCI-Expanded)
- DCCLIX. **Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s} = 13$ and 2.76 TeV pp Collisions with the ATLAS Detector**
Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, Abouzeid O, Abramowicz H, Abreu H, Abreu R, et al.
PHYSICAL REVIEW LETTERS, no.17, 2016 (SCI-Expanded)
- DCCLX. **Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector**
Aad G, Abajyan T, Abbott B, Abdallah J, Abdel Khalek S, Abdinov O, Aben R, Abi B, Abolins M, AbouZeid O, et al.
European Physical Journal C, vol.76, no.4, 2016 (SCI-Expanded)
- DCCLXI. **Search for anomalous couplings in the W tb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector**
The ATLAS collaboration A, Aad G, Abbott B, Abdallah J, Abdinov O, Aben R, Abolins M, AbouZeid O, Abramowicz H, Abreu H, et al.
Journal of High Energy Physics, vol.2016, no.4, 2016 (SCI-Expanded)
- DCCLXII. **Centrality, rapidity, and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $s_{NN} = 2.76$ TeV measured with the ATLAS detector**
Aad G, Abbott B, Abdallah J, Abdel Khalek S, Abdinov O, Aben R, Abi B, Abolins M, Abouzeid O, Abramowicz H, et al.
Physical Review C, vol.93, no.3, 2016 (SCI-Expanded)
- DCCLXIII. **Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions**

with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D, vol.93, no.5, 2016 (SCI-Expanded)

- DCCLXIV. **Search for charged Higgs bosons in the $H_{\pm} \rightarrow tb$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.3, 2016 (SCI-Expanded)
- DCCLXV. **Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.754, pp.302-322, 2016 (SCI-Expanded)
- DCCLXVI. **Dijet production in $\sqrt{s}=7$ TeV pp collisions with large rapidity gaps at the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.754, pp.214-234, 2016 (SCI-Expanded)
- DCCLXVII. **Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.3, 2016 (SCI-Expanded)
- DCCLXVIII. **Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of High Energy Physics, vol.2016, no.3, 2016 (SCI-Expanded)
- DCCLXIX. **Search for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D, vol.93, no.5, 2016 (SCI-Expanded)
- DCCLXX. **Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV**
Atlas Collaboration C., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.76, no.3, 2016 (SCI-Expanded)
- DCCLXXI. **Measurement of jet charge in dijet events from root s=8 TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
PHYSICAL REVIEW D, vol.93, no.5, 2016 (SCI-Expanded)
- DCCLXXII. **Measurement of the $\langle ZZ \rangle$ Production Cross Section in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, no.10, 2016 (SCI-Expanded)
- DCCLXXIII. **Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $s = 8$ TeV proton-proton collisions using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D, vol.93, no.3, 2016 (SCI-Expanded)
- DCCLXXIV. **Measurements of four-lepton production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.753, pp.552-572, 2016 (SCI-Expanded)

- DCCLXXV. **Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the $H \rightarrow \gamma\gamma$ decay channel at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.753, pp.69-85, 2016 (SCI-Expanded)
- CCCLXXVI. **Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.2, pp.1-30, 2016 (SCI-Expanded)
- CCLXXVII. **Search for the production of single vector-like and excited quarks in the Wt final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.2, pp.1-46, 2016 (SCI-Expanded)
- CLXXVIII. **A search for prompt lepton-jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.2, pp.1-51, 2016 (SCI-Expanded)
- CCCLXXIX. **Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.2, pp.1-30, 2016 (SCI-Expanded)
- DCCLXXX. **Measurement of the correlation between the polar angles of leptons from top quark decays in the helicity basis at $s = 7$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D, vol.93, no.1, 2016 (SCI-Expanded)
- CCCLXXXI. **Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at (Formula presented.) TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.1, pp.1-66, 2016 (SCI-Expanded)
- CCLXXXII. **Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.1, pp.1-51, 2016 (SCI-Expanded)
- CLXXXIII. **Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at root $s=8$ TeV in pp collision data with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.1, 2016 (SCI-Expanded)
- CLXXXIV. **Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the atlas detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.1, 2016 (SCI-Expanded)
- CCLXXXV. **Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.4, 2016 (SCI-Expanded)
- CLXXXVI. **Probing lepton flavour violation via neutrinoless $\tau \rightarrow 3\mu$ decays with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.

European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)

- CLXXXVII. **Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.2, 2016 (SCI-Expanded)
- LXXXVIII. **Search for flavour-changing neutral current top-quark decays to qZ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.1, pp.1-24, 2016 (SCI-Expanded)
- LXXXIX. **Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at root s=8 TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2016 (SCI-Expanded)
- DCCXC. **Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2016, no.1, pp.1-48, 2016 (SCI-Expanded)
- DCCXCI. **Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.1, pp.1-37, 2016 (SCI-Expanded)
- DCCXCII. **Search for scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abou Zeid O., Abraham N., Abramowicz H., et al.
New Journal of Physics, vol.18, no.9, pp.1-25, 2016 (SCI-Expanded)
- DCCXCIII. **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)
- DCCXCIV. **Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.7, 2016 (SCI-Expanded)
- DCCXCV. **Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abou Zeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.76, no.5, 2016 (SCI-Expanded)
- DCCXCVI. **Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.7, 2016 (SCI-Expanded)
- DCCXCVII. **Measurement of event-shape observables in $Z \rightarrow \ell\ell$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., Abolins M., AbouZeid O., Abraham N., Abramowicz H., et al.
European Physical Journal C, vol.76, no.7, pp.374-375, 2016 (SCI-Expanded)
- DCCXCVIII. **Study of the $Bc^+ \rightarrow J/\psi Ds^+$ and $Bc^+ \rightarrow J/\psi D^*s^+$ decays with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.

European Physical Journal C, vol.76, no.1, pp.1-24, 2016 (SCI-Expanded)

- DCCXCIX. **Determination of the Ratio of b -Quark Fragmentation Fractions f_s / f_d in pp Collisions at $s = 7$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review Letters, vol.115, no.26, 2015 (SCI-Expanded)
- DCCC. **Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions at $s = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.11, 2015 (SCI-Expanded)
- DCCCI. **Measurement of the branching ratio $\Gamma(\Delta b 0 \rightarrow \psi(2S)\Lambda 0) / \Gamma(\Delta b 0 \rightarrow J/\psi\Lambda 0)$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.751, pp.63-80, 2015 (SCI-Expanded)
- DCCCII. **Measurement of the production of neighbouring jets in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.751, pp.376-395, 2015 (SCI-Expanded)
- DCCCIII. **Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.12, pp.1-39, 2015 (SCI-Expanded)
- DCCCIV. **Measurement of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.12, pp.1-76, 2015 (SCI-Expanded)
- DCCCV. **Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.12, pp.1-65, 2015 (SCI-Expanded)
- DCCCVI. **Measurement of colour flow with the jet pull angle in tt- events using the ATLAS detector at $\sqrt{s} = 8$ TeV**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.750, pp.475-493, 2015 (SCI-Expanded)
- DCCCVII. **Measurement of transverse energy-energy correlations in multi-jet events in pp collisions at $s = 7$ TeV using the ATLAS detector and determination of the strong coupling constant $\alpha_s(m_Z)$**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.750, pp.427-447, 2015 (SCI-Expanded)
- DCCCVIII. **Searches for Higgs boson pair production in the $hh \rightarrow bb\tau\tau, \gamma\gamma WW^*, \gamma\gamma bb, bbbb$ channels with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.9, 2015 (SCI-Expanded)
- DCCCIX. **Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $s = 8$ TeV with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.

- Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.9, 2015 (SCI-Expanded)
- DCCCX. **Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2015 (SCI-Expanded)
- DCCCXI. **Measurement of the $t\bar{t}W$ and $t\bar{t}Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.11, pp.1-48, 2015 (SCI-Expanded)
- DCCCXII. **Search for lepton-flavour-violating $H \rightarrow \mu\tau$ decays of the Higgs boson with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.11, pp.1-33, 2015 (SCI-Expanded)
- DCCCXIII. **Z boson production in p+Pb collisions at $s_{NN} = 5.02$ TeV measured with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review C - Nuclear Physics, vol.92, no.4, 2015 (SCI-Expanded)
- DCCCXIV. **Measurement of differential J/ψ production cross sections and forward-backward ratios in p + Pb collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review C - Nuclear Physics, vol.92, no.3, 2015 (SCI-Expanded)
- DCCCXV. **Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $s = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.7, 2015 (SCI-Expanded)
- DCCCXVI. **Measurement of exclusive $\gamma\gamma \rightarrow \ell^+\ell^-$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.749, pp.242-261, 2015 (SCI-Expanded)
- DCCCXVII. **Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.749, pp.519-541, 2015 (SCI-Expanded)
- DCCCXVIII. **Summary of the searches for squarks and gluinos using $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment at the LHC**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.10, 2015 (SCI-Expanded)
- DCCCXIX. **Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.
Journal of High Energy Physics, vol.2015, no.10, pp.1-51, 2015 (SCI-Expanded)
- DCCCXX. **Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 — interpreted in the phenomenological MSSM**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2015, no.10, 2015 (SCI-Expanded)

DCCCXXI. **Determination of the top-quark pole mass using $t\bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.10, 2015 (SCI-Expanded)

DCCCXXII. **ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.10, 2015 (SCI-Expanded)

DCCCXXIII. **Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.9, 2015 (SCI-Expanded)

DCCCXXIV. **Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.9, 2015 (SCI-Expanded)

DCCCXXV. **Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. Physical Review Letters, vol.115, no.13, 2015 (SCI-Expanded)

DCCCXXVI. **Modelling Z $\tau\tau$ processes in ATLAS with τ -embedded Z $\mu\mu$ data**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al. Journal of Instrumentation, vol.10, no.9, 2015 (SCI-Expanded)

DCCCXXVII. **Centrality and rapidity dependence of inclusive jet production in $\sqrt{s_{NN}}=5.02$ TeV proton-lead collisions with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.748, pp.392-413, 2015 (SCI-Expanded)

DCCCXXVIII. **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)

DCCCXXIX. **Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2015, no.8, 2015 (SCI-Expanded)

DCCCXXX. **Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^* \rightarrow 4\ell$ Decay Channels at $\sqrt{s} = 8$ TeV with the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. Physical Review Letters, vol.115, no.9, 2015 (SCI-Expanded)

DCCCXXXI. **Search for high-mass diphoton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.3, 2015 (SCI-Expanded)

DCCCXXXII. **Study of (W/Z)H production and Higgs boson couplings using $H \rightarrow W W^*$ decays with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2015, no.8, 2015 (SCI-Expanded)

CCXXXIII. **A search for tt resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2015, no.8, 2015 (SCI-Expanded)

CCXXXIV. **Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.8, 2015 (SCI-Expanded)

CCXXXV. **Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.8, 2015 (SCI-Expanded)

CCXXXVI. **Search for type-III seesaw heavy leptons in pp collisions at $s = 8$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.3, 2015 (SCI-Expanded)

CCXXXVII. **Search for the standard model higgs boson produced in association with top quarks and decaying into bb in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.7, pp.1-50, 2015 (SCI-Expanded)

CCXXXVIII. **Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.7, 2015 (SCI-Expanded)

CCXXXIX. **Measurement of the top quark mass in the $tt \rightarrow$ lepton+jets and $tt \rightarrow$ dilepton channels using $\sqrt{s} = 7$ TeV ATLAS data**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.7, 2015 (SCI-Expanded)

DCCCXL. **Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s} = 8$ TeV**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., et al.

Journal of High Energy Physics, vol.2015, no.7, 2015 (SCI-Expanded)

DCCCXLI. **Evidence of $W\gamma\gamma$ production in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous quartic gauge couplings with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

Physical Review Letters, vol.115, no.3, 2015 (SCI-Expanded)

DCCCXLII. **Observation and measurement of Higgs boson decays to WW^* with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abou Zeid O., Abramowicz H., et al.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.1, 2015 (SCI-Expanded)

CCCLIII. **A search for high-mass resonances decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.7, 2015 (SCI-Expanded)

CCCLIV. **Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV**

The ATLAS collaboration A, Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.7, 2015 (SCI-Expanded)

DCCCXLV. **Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $s=8\text{TeV}$**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

European Physical Journal C, vol.75, no.7, 2015 (SCI-Expanded)

DCCCXLVI. **Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

European Physical Journal C, vol.75, no.7, 2015 (SCI-Expanded)

CCCXLVII. **Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. PHYSICAL REVIEW D, vol.92, no.1, 2015 (SCI-Expanded)

:CCXLVIII. **Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s} = 7\text{ TeV}$ in the ATLAS detector**

The ATLAS collaboration A, Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.6, 2015 (SCI-Expanded)

DCCCXLIX. **Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the lepton + jets final state with ATLAS**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.11, 2015 (SCI-Expanded)

DCCCL. **Search for vectorlike B quarks in events with one isolated lepton, missing transverse momentum, and jets at $s = 8\text{ TeV}$ with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.11, 2015 (SCI-Expanded)

DCCCLI. **Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $\ell\ell/\ell\nu/\nu\nu + bb$ final states with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.6, 2015 (SCI-Expanded)

DCCCLII. **Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $s = 8\text{ TeV}$ Measured with the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al. Physical Review Letters, vol.114, no.22, 2015 (SCI-Expanded)

DCCCLIII. **Measurement of three-jet production cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

European Physical Journal C, vol.75, no.5, 2015 (SCI-Expanded)

DCCCLIV. **Determination of spin and parity of the higgs boson in the $WW^* \rightarrow e\nu\mu\nu$ decay channel with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al. European Physical Journal C, vol.75, no.5, pp.1-40, 2015 (SCI-Expanded)

DCCCLV. **Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7\text{ TeV}$ using the ATLAS detector**

The ATLAS collaboration A, Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M.,

AbouZeid O., et al.

Journal of High Energy Physics, vol.2015, no.5, 2015 (SCI-Expanded)

- DCCCLVI. **Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review Letters, vol.114, no.19, 2015 (SCI-Expanded)
- DCCCLVII. **Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.5, 2015 (SCI-Expanded)
- DCCCLVIII. **Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.5, 2015 (SCI-Expanded)
- DCCCLIX. **Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.744, pp.163-183, 2015 (SCI-Expanded)
- DCCCLX. **Observation and measurements of the production of prompt and non-prompt J/ ψ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.5, pp.1-29, 2015 (SCI-Expanded)
- DCCCLXI. **Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s} = 7$ TeV**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.4, pp.1-26, 2015 (SCI-Expanded)
- DCCCLXII. **Search for $W' \rightarrow tb \rightarrow qqbb$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.4, pp.1-23, 2015 (SCI-Expanded)
- DCCCLXIII. **Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.7, 2015 (SCI-Expanded)
- DCCCLXIV. **Search for $W' \rightarrow t\bar{b}$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.743, pp.235-255, 2015 (SCI-Expanded)
- DCCCLXV. **Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s} = 8$ TeV**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.743, pp.15-34, 2015 (SCI-Expanded)

- CCCLXVI. **Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2015, no.4, pp.1-74, 2015 (SCI-Expanded)
- CCCLXVII. **Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2015, no.4, 2015 (SCI-Expanded)
- CCCLXVIII. **Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in pp Collisions at $\sqrt{s} = 8$ TeV Using the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.14, 2015 (SCI-Expanded)
- CCCLXIX. **Search for charged Higgs bosons decaying via $H_{\pm} \rightarrow \tau \pm \nu$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2015, no.3, 2015 (SCI-Expanded)
- DCCCLXX. **Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.5, 2015 (SCI-Expanded)
- CCCLXXI. **Simultaneous measurements of the $t\bar{t}$, $W+W-$, and $Z/\gamma^* \rightarrow \tau\tau$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.5, 2015 (SCI-Expanded)
- CCCLXXII. **Search for Higgs and Z Boson Decays to $J/\psi\gamma$ and $\Upsilon(nS)\gamma$ with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.12, 2015 (SCI-Expanded)
- CCCLXXIII. **Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.2, 2015 (SCI-Expanded)
- CCCLXXIV. **Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb⁻¹ of data with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2015, no.2, pp.1-54, 2015 (SCI-Expanded)
- CCCLXXV. **Measurements of the Nuclear Modification Factor for Jets in Pb plus Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.7, 2015 (SCI-Expanded)

- :CCLXXVI. **Measurement of the transverse polarization of Lambda and (Lambda)over-bar hyperons produced in proton-proton collisions at root s=7 TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.91, no.3, 2015 (SCI-Expanded)
- CCLXXVII. **Search for Higgs Boson Pair Production in the $\gamma\gamma$ (b)over-bar Final State Using pp Collision Data at $\sqrt{s}=8$ TeV from the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.8, 2015 (SCI-Expanded)
- :CLXXVIII. **Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.1, 2015 (SCI-Expanded)
- :CCLXXIX. **Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.1, 2015 (SCI-Expanded)
- CCCLXXX. **Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H_{\pm} \rightarrow W_{\pm} Z$ using pp Collisions at $s=8$ TeV with the ATLAS Experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review Letters, vol.114, no.23, 2015 (SCI-Expanded)
- :CCLXXXI. **Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., et al.
EUROPEAN PHYSICAL JOURNAL C, no.1, 2015 (SCI-Expanded)
- CCLXXXII. **Search for Higgs boson pair production in the bbbb final state from pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.75, no.9, 2015 (SCI-Expanded)
- :CLXXXIII. **Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.2, 2015 (SCI-Expanded)
- :CLXXXIV. **Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review C - Nuclear Physics, vol.92, no.3, 2015 (SCI-Expanded)
- CCLXXXV. **Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.75, no.7, pp.1-40, 2015 (SCI-Expanded)
- :CLXXXVI. **Measurement of the production and lepton charge asymmetry of W bosons in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.1, pp.1-30, 2015 (SCI-Expanded)
- CLXXXVII. **Production and decay of up-type and down-type new heavy quarks through anomalous interactions**

at the LHC

Cakir I. T., Kудay S., Cakir O.

Advances in High Energy Physics, vol.2015, 2015 (SCI-Expanded)

- :LXXXVIII. **Search for s-channel single top-quark production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.118-136, 2015 (SCI-Expanded)
- :CLXXXIX. **Measurements of the W production cross sections in association with jets with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.2, 2015 (SCI-Expanded)
- DCCCXC. **Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
European Physical Journal C, vol.75, no.10, 2015 (SCI-Expanded)
- DCCCXCI. **Search for higgs bosons decaying to aa in the $\mu\mu\tau\tau$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.5, 2015 (SCI-Expanded)
- DCCCXCII. **Search for Scalar Charm Quark Pair Production in pp Collisions at $s = 8$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
Physical Review Letters, vol.114, no.16, 2015 (SCI-Expanded)
- :CCCXCIII. **Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2015 (SCI-Expanded)
- :CCCXCIV. **Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.75, no.9, 2015 (SCI-Expanded)
- DCCCXCV. **Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $s = 8$ TeV pp collisions using the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2015, no.3, 2015 (SCI-Expanded)
- :CCCXCVI. **Measurement of the $t(\bar{t})$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, pp.1-67, 2015 (SCI-Expanded)
- CCCXCVII. **Search for the X_b and other hidden-beauty states in the $\pi^+\pi^-\gamma(1S)$ channel at ATLAS**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.199-217, 2015 (SCI-Expanded)
- :CCXCVIII. **Measurement of the WW plus WZ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{s}=7$ TeV**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2015 (SCI-Expanded)

CCCXCIX. **Search for a Heavy Neutral Particle Decaying to $e\mu$, $e\tau$, or $\mu\tau$ in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review Letters, vol.115, no.3, 2015 (SCI-Expanded)

CM. **Search for the $\overline{b}b$ decay of the Standard Model Higgs boson in associated WZ production with the ATLAS detector**

The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2015 (SCI-Expanded)

CMI. **Study of the spin and parity of the Higgs boson in Diboson decays with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.75, no.10, 2015 (SCI-Expanded)

CMII. **Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.7, 2015 (SCI-Expanded)

CMIII. **Search for $H \rightarrow \gamma\gamma$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

PHYSICS LETTERS B, pp.222-242, 2015 (SCI-Expanded)

CMIV. **Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.92, no.7, 2015 (SCI-Expanded)

CMV. **Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O., Abramowicz H., Abreu H., Abreu R., et al.
European Physical Journal C, vol.75, no.7, pp.1-34, 2015 (SCI-Expanded)

CMVI. **Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

European Physical Journal C, vol.75, no.3, 2015 (SCI-Expanded)

CMVII. **Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.91, no.11, 2015 (SCI-Expanded)

CMVIII. **Search for resonant diboson production in the $llq\bar{q}$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

European Physical Journal C, vol.75, no.2, pp.69, 2015 (SCI-Expanded)

CMIX. **A measurement of the ratio of the production cross sections for W and Z bosons in association with jets with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

European Physical Journal C, vol.74, no.12, 2014 (SCI-Expanded)

- CMX. **Measurement of inclusive jet charged-particle fragmentation functions in Pb plus Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.320-342, 2014 (SCI-Expanded)
- CMXI. **Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, no.12, 2014 (SCI-Expanded)
- CMXII. **Comprehensive measurements of t -channel single top-quark production cross sections at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, no.11, 2014 (SCI-Expanded)
- CMXIII. **Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, no.11, 2014 (SCI-Expanded)
- CMXIV. **ATLAS Collaboration**
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., AbouZeid O., Abramowicz H., et al.
Nuclear Physics A, vol.932, pp.572-594, 2014 (SCI-Expanded)
- CMXV. **Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
NUCLEAR PHYSICS B, pp.486-548, 2014 (SCI-Expanded)
- CMXVI. **Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abou Zeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.90, no.11, 2014 (SCI-Expanded)
- CMXVII. **Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
ATLAS Collaboration C., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
EUROPEAN PHYSICAL JOURNAL C, no.12, 2014 (SCI-Expanded)
- CMXVIII. **Anomalous $H\gamma$ 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)
- CMXIX. **Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
European Physical Journal C, vol.74, no.11, 2014 (SCI-Expanded)
- CMXX. **Search for the Standard Model Higgs boson decay to $\mu+\mu-$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.738, pp.68-86, 2014 (SCI-Expanded)

- CMXXI. **Observation of an Excited B_c^\pm Meson State with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.21, 2014 (SCI-Expanded)
- CMXXII. **Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., et al.
NEW JOURNAL OF PHYSICS, 2014 (SCI-Expanded)
- CMXXIII. **Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=8\text{ TeV}$ pp collisions with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2014 (SCI-Expanded)
- CMXXIV. **Measurement of flow harmonics with multi-particle cumulants in Pb plus Pb collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, no.11, 2014 (SCI-Expanded)
- CMXXV. **Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2014 (SCI-Expanded)
- CMXXVI. **Search for new resonances in $W\gamma$ and $Z\gamma$ final states in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.428-447, 2014 (SCI-Expanded)
- CMXXVII. **Measurement of the cross section of high transverse momentum $Z \rightarrow b\bar{b}$ production in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.25-43, 2014 (SCI-Expanded)
- CMXXVIII. **Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2014 (SCI-Expanded)
- CMXXIX. **Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data**
The ATLAS Collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
European Physical Journal C, vol.74, no.10, pp.1-48, 2014 (SCI-Expanded)
- CMXXX. **Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
Journal of High Energy Physics, vol.2014, no.10, pp.1-49, 2014 (SCI-Expanded)

- CMXXXI. **Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2014 (SCI-Expanded)
- CMXXXII. **Search for the lepton flavor violating decay $Z \rightarrow e\mu$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, no.7, 2014 (SCI-Expanded)
- CMXXXIII. **Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}}=5.02$ TeV proton-lead collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW C, no.4, 2014 (SCI-Expanded)
- CMXXXIV. **Measurement of the $t(\bar{t})$ over-bar production cross-section using $e\mu$ events with b -tagged jets in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, no.10, 2014 (SCI-Expanded)
- CMXXXV. **Measurements of normalized differential cross sections for $t(\bar{t})$ over-bar production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.
PHYSICAL REVIEW D, no.7, 2014 (SCI-Expanded)
- CMXXXVI. **Evidence for Electroweak Production of $W^{\pm}W^{\pm}jj$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, no.14, 2014 (SCI-Expanded)
- CMXXXVII. **Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, no.11, 2014 (SCI-Expanded)
- CMXXXVIII. **Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
PHYSICS LETTERS B, pp.223-243, 2014 (SCI-Expanded)
- CMXXXIX. **Search for HZZ couplings at the LHC**
ARI V., Cakir O., Kuday S.
EPL, vol.108, no.1, 2014 (SCI-Expanded)
- CMXL. **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)
- CMXLI. **Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in pp Collision Data at $\sqrt{s}=8$ TeV**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, no.17, 2014 (SCI-Expanded)

- CMXLII. **Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of High Energy Physics, vol.2014, no.9, 2014 (SCI-Expanded)
- CMXLIII. **Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^* \rightarrow 4l$ channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abidi S., Abolins M., AbouZeid O., et al.
PHYSICAL REVIEW D, no.5, 2014 (SCI-Expanded)
- CMXLIV. **Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)
- CMXLV. **A neural network clustering algorithm for the ATLAS silicon pixel detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of Instrumentation, vol.9, no.9, 2014 (SCI-Expanded)
- CMXLVI. **Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)
- CMXLVII. **Measurement of the Z/γ^* boson transverse momentum distribution in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.
Journal of High Energy Physics, vol.2014, no.9, 2014 (SCI-Expanded)
- CMXLVIII. **Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, no.5, 2014 (SCI-Expanded)
- CMXLIX. **Flavor tagged time-dependent angular analysis of the $B_{s^0} \rightarrow J/\psi\phi$ decay and extraction of $\Delta\Gamma_{s^0}$ and the weak phase φ_{s^0} in ATLAS**
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., et al.
PHYSICAL REVIEW D, no.5, 2014 (SCI-Expanded)
- CML. **Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
PHYSICAL REVIEW D, no.5, 2014 (SCI-Expanded)
- CMLI. **Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb^{-1} of $\sqrt{s}=8$ TeV proton-proton collision data with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abidinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)
- CMLII. **Measurement of the production cross-section of $\psi(2S) \rightarrow J/\psi(\rightarrow \mu^+\mu^-)$**

$\mu\pi\pi$ in pp collisions at $\sqrt{s}=7$ TeV at ATLAS

Aad G., Abbott B., Abdallah J., Abdelkhalek S., Abdinov O., Aben R., Abi B., Abolins M., Abou Zeid O., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, pp.1-49, 2014 (SCI-Expanded)

CMLIII. **Search for supersymmetry in events with four or more leptons in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., Abouzeid O., Abramowicz H., et al.

PHYSICAL REVIEW D, no.5, 2014 (SCI-Expanded)

CMLIV. **Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010**

Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdelalim A., Abdinov O., Aben R., Abi B., Abolins M., et al.

EUROPEAN PHYSICAL JOURNAL C, no.9, 2014 (SCI-Expanded)

CMLV. **Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)

CMLVI. **Measurement of event-plane correlations in $\sqrt{s_{NN}}=2.76$ TeV lead-lead collisions with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

PHYSICAL REVIEW C, no.2, 2014 (SCI-Expanded)

CMLVII. **Light-quark and gluon jet discrimination in collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, no.8, 2014 (SCI-Expanded)

CMLVIII. **Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data**

Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.7, 2014 (SCI-Expanded)

CMLIX. **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)

CMLX. **Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector**

Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O., et al.

PHYSICS LETTERS B, pp.8-27, 2014 (SCI-Expanded)

CMLXI. **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)

CMLXII. **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)

CMLXIII. **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)

CMLXIV. **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)
- CMLXV. **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., Arikian E., et al.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.39, no.7, 2012 (SCI-Expanded)
- CMLXVI. **Anomalous single production of fourth family up-type quark associated with neutral gauge bosons at the LHC**
Çakir O., Çakir I., Senol A., Tasci A.
Journal of Physics G: Nuclear and Particle Physics, vol.39, no.5, 2012 (SCI-Expanded)
- CMLXVII. **Resonant production of the fourth family slepton at the LHC**
Çakir O., KUDAY S., Çakir I. T., Sultansoy S.
Acta Physica Polonica B, vol.43, no.1, pp.63-70, 2012 (SCI-Expanded)
- CMLXVIII. **Pair production of tau sneutrinos at linear colliders**
ARI V., Çakir O.
Modern Physics Letters A, vol.26, no.24, pp.1783-1796, 2011 (SCI-Expanded)
- CMLXIX. **Pair production of the fourth family charged sleptons at e⁺e⁻ colliders**
ARI V., Çakir O., Çakir I. T., Sultansoy S.
EPL, vol.94, no.2, 2011 (SCI-Expanded)
- CMLXX. **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)
- CMLXXI. **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)
- CMLXXII. **Anomalous single top production at the LHeC based γp collider**
Çakir 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)
- CMLXXIII. **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)
- CMLXXIV. **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)
- CMLXXV. **Single production of excited spin-3/2 neutrinos at linear colliders**
Çakir O., OZANSOY A.
PHYSICAL REVIEW D, vol.79, no.5, 2009 (SCI-Expanded)
- CMLXXVI. **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)
- CMLXXVII. **Single production of fourth-family quarks at the LHC**
Çakir O., Çakir I. T., Yildiz H., Mehdiyev R.
European Physical Journal C, vol.56, no.4, pp.537-543, 2008 (SCI-Expanded)
- CMLXXVIII. **Unparticle searches through gamma-gamma scattering**
Çakir O., Ozansoy K. O.
EUROPEAN PHYSICAL JOURNAL C, vol.56, no.2, pp.279-285, 2008 (SCI-Expanded)
- CMLXXIX. **Probing little Higgs model in e(+)e(-) -> nu(nu)over-bar gamma process**
ALIYEV T., Çakir O.
EUROPEAN PHYSICAL JOURNAL C, vol.54, no.1, pp.149-158, 2008 (SCI-Expanded)

- CMLXXX. **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)
- CMLXXXI. **Unparticle searches through Compton scattering**
Cakir O., Ozansoy K. O.
EPL, vol.83, no.5, 2008 (SCI-Expanded)
- MLXXXII. **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)
- MLXXXIII. **Production of doubly charged Higgs bosons at linear $e(-)e(-)$ colliders**
Cakir O.
NEW JOURNAL OF PHYSICS, vol.8, 2006 (SCI-Expanded)
- MLXXXIV. **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)
- MLXXXV. **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)
- MLXXXVI. **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)
- MLXXXVII. **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)
- MLXXXVIII. **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)
- MLXXXIX. **Heavy lepton production at Linac⊗LHC**
Alan A., Tasci A., ÇAKIR O.
Acta Physica Polonica B, vol.35, no.9, pp.2199-2204, 2004 (SCI-Expanded)
- CMXC. **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)
- CMXCI. **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)
- CMXCII. **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)
- CMXCIII. **Production of excited electrons at TESLA and CLIC based ey colliders**
Kirca Z., ÇAKIR O., Aydin Z.
Acta Physica Polonica B, vol.34, no.8, pp.4079-4093, 2003 (SCI-Expanded)
- CMXCIV. **Anomalous production of top quarks at CLIC+LHC based γp colliders**
ÇAKIR O.
Journal of Physics G: Nuclear and Particle Physics, vol.29, no.6, pp.1181-1191, 2003 (SCI-Expanded)
- CMXCV. **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)
- CMXCVI. **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)
- CMXCVII. **Rare Bs \rightarrow $\nu\bar{\nu}\gamma$ decay beyond the standard model**
ÇAKIR O., ŞİRVANLI B. B.
Acta Physica Polonica B, vol.34, no.5, pp.2643-2649, 2003 (SCI-Expanded)
- CMXCVIII. **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)
- CMXCIX. **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)
- M. **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)
- MI. **Impact of energy and luminosity upgrades at LHC on the physics programme of ATLAS**
Azuelos G., Benchekroun D., Cakir O., Elfgrén E., Gianotti F., Hansen J., Hinchliffe I., Hohlfield 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)
- MII. **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)
- MIII. **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)
- MIV. **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)
- MV. **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)
- MVI. **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)
- MVII. **Excited quark production at the CERN LHC**
Cakir O., Mehdiyev R.
PHYSICAL REVIEW D, vol.60, no.3, 1999 (SCI-Expanded)
- MVIII. **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)
- MIX. **Resonance production of diquarks at the CERN LHC**
Atag S., Cakir O., Sultansoy S.
PHYSICAL REVIEW D, vol.59, no.1, 1999 (SCI-Expanded)
- MX. **Heavy Quark Production at γp Colliders**
ÇAKIR O., YILMAZ M.
Turkish Journal of Physics, vol.22, no.7, pp.733-739, 1998 (SCI-Expanded)
- MXI. **Single top quark production at ep and gamma p colliders**
Cakir O., Yilmaz M.
EUROPHYSICS LETTERS, vol.41, no.3, pp.267-272, 1998 (SCI-Expanded)
- MXII. **Heavy quarks at ep and gamma p colliders**
Cakir O., Yilmaz M.
EUROPHYSICS LETTERS, vol.38, no.1, pp.13-18, 1997 (SCI-Expanded)

- MXIII. 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)
- MXIV. SINGLE AND PAIR PRODUCTION OF VECTOR LEPTOQUARKS AT HIGH-ENERGY GAMMA-P COLLIDERS**
ÇAKIR O., ATAG S.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.21, no.9, pp.1189-1198, 1995 (SCI-Expanded)
- MXV. PAIR PRODUCTION OF SCALAR LEPTOQUARKS AT TEV ENERGY GAMMA-P COLLIDERS**
ATAG S., ÇAKIR O.
PHYSICAL REVIEW D, vol.49, no.11, pp.5769-5772, 1994 (SCI-Expanded)
- MXVI. 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. Deep Generative Models for Fast Photon Shower Simulation in ATLAS**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
Computing and Software for Big Science, vol.8, no.1, 2024 (Scopus)
- II. Software Performance of the ATLAS Track Reconstruction for LHC Run 3**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Computing and Software for Big Science, vol.8, no.1, 2024 (Scopus)
- III. 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)
- IV. 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 Üretimini 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 C arpıs tırıcısında Yeni Ag ır Kuark U retimine C es ni Deg is tiren Yu ksu z Akım Bag las ımlarının Etkisi**
ÇETİNKAYA V., ARI V., ÇAKIR O.
Adım Fizik Günleri IV, Turkey, 28 May 2015
- VII. **Büyük Hadron Çarpıştırıcısı'nda HZZ' Bağlılımlarının Ölçümü**
KUDAY S., ARI V., ÇAKIR O.
Ankara Yüksek Enerji Fiziğı 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 Üretimini R-Parite Bozan Süreçler Yoluyla Araştırılması**
KUDAY S., TÜRK ÇAKIR İ., ÇAKIR O., SULTANOV S.
İzmir Yüksek Enerji Fiziğı 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 Fiziğı Günleri, Ankara, Turkey, 27 - 30 December 2011
- XI. **Fourth Family Quarks Forward Backward Asymmetry Within the Z Models at Linear Colliders**
ARI V., ÇETİNKAYA 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., Ketenoğılu B., Zengin K., AKKUŞ B., Arikan 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

Publication: 1043

Citation (WoS): 31977

Citation (Scopus): 49027

H-Index (WoS): 80

H-Index (Scopus): 107

Congress and Symposium Activities

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