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Eğitim Bilgileri

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

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

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

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

Sertifika, Kurs ve Eğitimler

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Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Temel Bilimler

Akademik Unvanlar / Görevler

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

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

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

AKADEMİK İDARI DENeyİM

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

Verdiği Dersler

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

Tez Savunma (Doktora), Tez Savunma (Doktora), Marmara Üniversitesi, Ekim, 2023
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- XXIV. **Differential cross-sections for events with missing transverse momentum and jets measured with the ATLAS detector in 13 TeV proton-proton collisions**
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- XXVIII. **Measurement of ZZ production cross-sections in the four-lepton final state in pp collisions at $s=13.6$ TeV with the ATLAS experiment**
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- XXX. **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**
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- XXXIV. **Statistical Combination of ATLAS Run 2 Searches for Charginos and Neutralinos at the LHC**
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XLIV. **Inclusive and differential cross-section measurements of tt̄Z production in pp collisions at s = 13 TeV with the ATLAS detector, including EFT and spin-correlation interpretations**
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XLV. **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**
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- XLVII. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
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- L. **Measurement of jet substructure in boosted Formula Presented events with the ATLAS detector using Formula Presented of 13 TeV Formula Presented collisions**
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CIX. Search for leptoquarks decaying into the $b\tau$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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- CXXIII. **Search for displaced photons produced in exotic decays of the Higgs boson using 13 TeV pp collisions with the ATLAS detector**
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- CXXIV. **Measurements of $W+W-$ production in decay topologies inspired by searches for electroweak**

supersymmetry

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- CXXV. **Measurement of the inclusive Formula Presented production cross section in the lepton+jets channel in pp collisions at Formula Presented with the ATLAS detector using support vector machines**
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- CXXVII. **Measurements of Higgs boson production by gluon-gluon fusion and vector-boson fusion using $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decays in pp collisions at Formula Presented with the ATLAS detector**
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- CXXX. **Search for flavor-changing neutral-current couplings between the top quark and the Z boson with proton-proton collisions at Formula Presented with the ATLAS detector**
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- CXXXIV. **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**
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- CXLI. **Search for new phenomena in final states with photons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CXLIII. **Search for third-generation vector-like leptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CXLVI. **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**
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- CXLVII. **Search for a new scalar resonance in flavour-changing neutral-current top-quark decays $t \rightarrow qX$ ($q = u, c$), with $X \rightarrow bb^-$, in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CXLIX. **Search in diphoton and dielectron final states for displaced production of Higgs or Z bosons with the ATLAS detector in Formula Presented pp collisions**
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- CL. **Search for resonant and non-resonant Higgs boson pair production in the $bb^- \tau^+\tau^-$ decay channel using 13 TeV pp collision data from the ATLAS detector**
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- CLI. **Measurement of exclusive pion pair production in proton–proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
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- CLII. **Search for leptonic charge asymmetry in $t\bar{t} W$ production in final states with three leptons at $\sqrt{s} = 13$ TeV**
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- CLIII. **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**
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- CLIV. **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**
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- CLV. **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**
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- CLVI. **Search for long-lived, massive particles in events with displaced vertices and multiple jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLVII. **Search for a new Z' gauge boson in 4μ events with the ATLAS experiment**
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- CLVIII. **A search for heavy Higgs bosons decaying into vector bosons in same-sign two-lepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLIX. **Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLX. **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**
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- CLXI. **Measurement of cross sections for production of a Z boson in association with a flavor-inclusive or doubly b-tagged large-radius jet in proton-proton collisions at Formula Presented with the ATLAS experiment**
Jackson P., Kong A., Oliver J., Ruggeri T., Sharma A., White M., Jain V., Swift S., Gingrich D., Pinfold J., et al.
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- CLXII. **ATLAS flavour-tagging algorithms for the LHC Run 2 pp collision dataset**
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- CLXIII. **Search for $t\bar{t} H/A \rightarrow t\bar{t} t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLXIV. **Search for dark matter produced in association with a dark Higgs boson decaying into $W^+ W^-$ in the one-lepton final state at $\sqrt{s} = 13$ TeV using 139 fb⁻¹ of pp collisions recorded with the ATLAS detector**
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- CLXV. **Exclusive dielectron production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS**
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
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- CLXVI. **Measurements of $Z\gamma$ +jets differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- Hoffman A., et al.
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- CLXVII. **Search for dark photons from Higgs boson decays via ZH production with a photon plus missing transverse momentum signature from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLXVIII. **Search for heavy, long-lived, charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment and the full Run 2 dataset**
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- CLXIX. **Measurement of $Z\gamma\gamma$ production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CLXX. **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**
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- CLXXI. **Cross-section measurements for the production of a Z boson in association with high-transverse-momentum jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
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- CLXXII. **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.
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- CLXXIII. **Measurement of electroweak $Z(\nu\nu^*)\gamma jj$ production and limits on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abeling K., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Abusleme Hoffman A., et al.
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- CLXXIV. **Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in 139 fb^{-1} of $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D., Abud A. A., Abeling K., Abhayasinghe D., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., et al.
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- CLXXV. **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.
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- CLXXVI. **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.
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- CLXXVII. **Measurement of the top-quark mass using a leptonic invariant mass in pp collisions at $\sqrt{s} = 13$ TeV**

with the ATLAS detector

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

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CLXXVIII. 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.

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CLXXIX. Search for light long-lived neutral particles that decay to collimated pairs of leptons or light hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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

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

CLXXXI. 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, cilt.2023, sa.6, 2023 (SCI-Expanded)

CLXXXII. 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.

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

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

European Physical Journal C, cilt.83, sa.6, 2023 (SCI-Expanded)

CLXXXIV. Measurement of muon pairs produced via $\gamma\gamma$ scattering in nonultraperipheral Pb + Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector

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

Physical Review C, cilt.107, sa.5, 2023 (SCI-Expanded)

CLXXXV. 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, cilt.83, sa.5, 2023 (SCI-Expanded)

CLXXXVI. Production of $\Upsilon(nS)$ mesons in Pb + Pb and pp collisions at 5.02 TeV

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

Physical Review C, cilt.107, sa.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.

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- CCXL. **Search for bottom-squark pair production in pp collision events at $\sqrt{s}=13$ TeV with hadronically decaying tau-leptons, b-jets, and missing transverse momentum using the ATLAS detector**
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PHYSICAL REVIEW D, cilt.104, sa.3, 2021 (SCI-Expanded)
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- CCXLII. **Exclusive dimuon production in ultraperipheral Pb plus Pb collisions at $\sqrt{S-NN}=5.02$ TeV with ATLAS**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXLIII. **Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CCXLV. **Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CCXLVII. **Two-particle azimuthal correlations in photonuclear ultraperipheral Pb plus Pb collisions at 5.02 TeV with ATLAS**
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- CCXLVIII. **Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector**
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- CCXLIX. **Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector**
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- CC. **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**

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- CCLII. **Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV**
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- CCLIII. **Search for Displaced Leptons in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector**
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- CCLIV. **A search for the decays of stopped long-lived particles at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CCLV. **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**
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- CCLVI. **Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s}=13$ TeV**
Aad G., B Abbott B. A., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLVII. **Determination of the parton distribution functions of the proton from ATLAS measurements of differential W⁺/₋ and Z boson production in association with jets**
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- CCLVIII. **Measurements of W+W⁺ + 1 jet production cross-sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CCLIX. **Measurements of Higgs bosons decaying to bottom quarks from vvector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV**
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- CCLX. **Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
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- CCLXI. **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**

- Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLXII. **Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a tau-lepton in pp collisions at root s=13 TeV with the ATLAS detector**
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- CCLXIII. **Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at root s=13 TeV with the ATLAS detector**
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- CCLXIV. **Search for charged Higgs bosons decaying into a top quark and a bottom quark at root s=13 TeV with the ATLAS detector**
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- CCLXV. **Observation of photon-induced W+ W- production in pp collisions at root s=13 TeV using the ATLAS detector**
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- CCLXVII. **CutLang as an analysis description language for introducing students to analyses in particle physics**
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- CCLXVIII. **Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at root s=13 TeV with the ATLAS detector**
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- CCLXIX. **Search for new phenomena in final states with b-jets and missing transverse momentum in root s=13 TeV pp collisions with the ATLAS detector**
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- CCLXX. **Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions**
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- CCLXXI. **Search for heavy resonances decaying into a pair of Z bosons in the l(+)-l'(+)-l'(-) and l(+)-l(-)nu(nu)over-bar final states using 139 fb(-1) of proton-proton collisions at root s=13TeV with the ATLAS detector**
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- EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.4, 2021 (SCI-Expanded)
- CCLXXII. **Measurement of the CP-violating phase $\phi(s)$ in $B\text{-}s(0) \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV**
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- CCLXXIII. **Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLXXIV. **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**
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- CCLXXV. **Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLXXVI. **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. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLXXVII. **Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into (WW -/+)- W-/+ or ZZ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV pp Collisions Recorded with the ATLAS Detector**
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- CCLXXVIII. **Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.3, 2021 (SCI-Expanded)
- CCLXXIX. **Longitudinal Flow Decorrelations in Xe plus Xe Collisions at $\sqrt{s(NN)}=5.44$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCLXXX. **Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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- CCLXXXI. **Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS**

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- CCLXXXII. **Search for dark matter in association with an energetic photon in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CLXXXIII. **Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb plus Pb Collisions at 5.02 TeV with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CLXXXIV. **Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb(-1) of root s=13 TeV pp collision data with the ATLAS detector**
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- CCLXXXV. **Measurement of the jet mass in high transverse momentum Z(-> b(b)over-bar)gamma production at root s=13 TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)
- :CLXXXVI. **Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at root s=13 TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2021 (SCI-Expanded)
- CLXXXVII. **A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)
- :LXXXVIII. **Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CLXXXIX. **Measurement of hadronic event shapes in high-p(T) multijet final states at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXC. **Search for Higgs boson decays into two new low-mass spin-0 particles in the 4b channel with the ATLAS detector using pp collisions at root s=13 TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXCI. **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. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

- PHYSICAL REVIEW D, cilt.102, sa.11, 2020 (SCI-Expanded)
- CCXCII. **Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXCIII. **Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s}=8$ TeV using the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.12, 2020 (SCI-Expanded)
- CCXCIV. **Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXCV. **Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.12, 2020 (SCI-Expanded)
- CCXCVI. **Alignment of the ATLAS Inner Detector in Run 2**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.12, 2020 (SCI-Expanded)
- CCXCVII. **Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXCVIII. **Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCXCIX. **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. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCC. **Reconstruction and identification of boosted di-tau systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCI. **Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCII. **Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector**

- Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.22, 2020 (SCI-Expanded)
- CCCIII. **Measurement of the $t(\bar{t})$ production cross-section in the lepton plus jets channel at $\sqrt{s}=13$ TeV with the ATLAS experiment**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.810, 2020 (SCI-Expanded)
- CCCIV. **Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4l$ decay channel at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.10, 2020 (SCI-Expanded)
- CCCV. **Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.10, 2020 (SCI-Expanded)
- CCCVI. **Higgs boson production cross-section measurements and their EFT interpretation in the $4l$ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.10, 2020 (SCI-Expanded)
- CCCVII. **Operation of the ATLAS trigger system in Run 2**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)
- CCCVIII. **A search for the Z γ decay mode of the Higgs boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
PHYSICS LETTERS B, cilt.809, 2020 (SCI-Expanded)
- CCCIX. **Search for $t(\bar{t})$ resonances in fully hadronic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.10, 2020 (SCI-Expanded)
- CCCX. **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**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.10, 2020 (SCI-Expanded)
- CCCXI. **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**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2020 (SCI-Expanded)
- CCCXII. **Measurements of inclusive and differential cross-sections of combined $t\bar{t} \rightarrow \ell\bar{\ell} \gamma$ and $t\bar{t} \rightarrow \ell\bar{\ell} \gamma$ production in the $e\mu$ channel at 13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L.,

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JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.9, 2020 (SCI-Expanded)
- CCCXIII. **Performance of the ATLAS muon triggers in Run 2**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.9, 2020 (SCI-Expanded)
- CCCXIV. **Dijet Resonance Search with Weak Supervision Using $\sqrt{s}=13$ TeV pp Collisions in the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.13, 2020 (SCI-Expanded)
- CCCXV. **CP Properties of Higgs Boson Interactions with Top Quarks in the $(t\bar{t})\rightarrow H$ and tH Processes Using $H\rightarrow\gamma\gamma$ with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.6, 2020 (SCI-Expanded)
- CCCXVI. **Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.8, 2020 (SCI-Expanded)
- CCCXVII. **Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CCCXVIII. **Measurement of azimuthal anisotropy of muons from charm and bottom hadrons Pb plus Pb collisions at $\sqrt{s(NN)}=5.02$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXIX. **Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXX. **Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCXXI. **Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXII. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

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- CCCXXIII. **Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXIV. **Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXV. **Observation of the associated production of a top quark and a Z boson in pp collisions at root s=13 TeV with the ATLAS detector**
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- CCCXXVI. **Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at root s=13 TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXVII. **Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at root s=13TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CCXXVIII. **Search for the HH -> b(b)over-barb(b)over-bar process via vector-boson fusion production using proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXIX. **Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXX. **Measurement of the tt production cross-section and lepton differential distributions in e mu dilepton events from pp collisions at root s=13 TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.6, 2020 (SCI-Expanded)
- CCCXXXI. **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. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXXII. **Search for dijet resonances in events with an isolated charged lepton using root s=13 TeV proton-proton collision data collected by the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CCXXXIII. **Test of CP invariance in vector-boson fusion production of the Higgs boson in the $H \rightarrow \tau\tau$ channel in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- :CCXXXIV. **Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s}=13\text{ TeV}$ and decaying into collimated leptons or light hadrons with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCXXXV. **Evidence for electroweak production of two jets in association with a Z gamma pair in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- :CCXXXVI. **Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.7, 2020 (SCI-Expanded)
- CCXXXVII. **ATLAS data quality operations and performance for 2015-2018 data-taking**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- :CCXXXVIII. **Search for long-lived neutral particles produced in pp collisions at $\sqrt{s}=13\text{ TeV}$ decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- :CCXXXIX. **Measurement of soft-drop jet observables in pp collisions 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., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCXXL. **Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCXXLI. **Z boson production in Pb plus Pb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ measured by the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.802, 2020 (SCI-Expanded)
- CCXXLII. **Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXXLIII. **Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L.,

- Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCCXLIV. **Measurement of the $Z \rightarrow l^{(+)}l^{(-)}\gamma$ production cross-section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
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.
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- CCCXLV. **Search for direct stau production in events with two hadronic tau-leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.3, 2020 (SCI-Expanded)
- CCCXLVI. **Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, cilt.124, sa.8, 2020 (SCI-Expanded)
- CCCXLVII. **Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.2, 2020 (SCI-Expanded)
- :CCXLVIII. **Measurement of the azimuthal anisotropy of charged-particle production in Xe plus Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW C, cilt.101, sa.2, 2020 (SCI-Expanded)
- CCCXLIX. **Search for non-resonant Higgs boson pair production in the $b\bar{b}l\nu l\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCL. **Search for the Higgs boson decays $H \rightarrow ee$ and $H \rightarrow e\mu$ in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)
- CCCLI. **Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)
- CCCLII. **Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s}=8$ TeV pp collisions using the ATLAS ALFA spectrometer**
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.2, 2020 (SCI-Expanded)
- CCCLIII. **Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{NN}}=8.16$ TeV p plus Pb collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.

- EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCCLIV. **Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at root s=8 and 13 TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCCLV. **Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector**
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
PHYSICAL REVIEW LETTERS, cilt.124, sa.3, 2020 (SCI-Expanded)
- CCCLVI. **Performance of electron and photon triggers in ATLAS during LHC Run 2**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CCCLVII. **Searches for lepton-flavour-violating decays of the Higgs boson in root s=13 TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCCLVIII. **Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb(-1) of pp collisions at root s=13 TeV with the ATLAS experiment**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCCLIX. **Combination of searches for Higgs boson pairs in pp collisions at root s=13 TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCCLX. **Combined measurements of Higgs boson production and decay using up to 80 fb(-1) of proton-proton collision data at root S=13 TeV collected with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.101, sa.1, 2020 (SCI-Expanded)
- CCCLXI. **Measurement of J/psi production in association with a W+/- boson with pp data at 8 TeV**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCLXII. **Fluctuations of anisotropic flow in Pb plus Pb collisions at root s(NN)=5.02 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCLXIII. **Measurement of angular and momentum distributions of charged particles within and around jets in Pb plus Pb and pp collisions at root s(NN)=5.02 TeV with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW C, cilt.100, sa.6, 2019 (SCI-Expanded)
- CCCLXIV. **Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at root s(NN)=5.02 TeV with the ATLAS detector**

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

pp Collisions root s=13 TeV with the ATLAS Detector

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

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

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

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

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

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

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

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

:CLXXVIII. Measurement of fiducial and differential W+W- production cross-sections at root s=13 TeV with the ATLAS detector

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

:CLXXXIV. Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2

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

CCLXXXV. Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at root s=8 TeV with the ATLAS detector

Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S.,

- Abraham N. L., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.9, 2019 (SCI-Expanded)
- :CLXXXVI. **Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s}=13\text{TeV}$ with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CLXXXVII. **Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS experiment at the LHC**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- :LXXXVIII. **Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- :CLXXXIX. **Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCXC. **Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCXCI. **Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCCXCII. **Observation of Light-by-Light Scattering in Ultraperipheral Pb plus Pb Collisions with the ATLAS Detector**
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- CCCXCIII. **Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
PHYSICAL REVIEW D, cilt.100, sa.1, 2019 (SCI-Expanded)
- CCCXCIV. **Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb plus Pb Collisions in ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, cilt.123, sa.4, 2019 (SCI-Expanded)
- CCCXCV. **Search for scalar resonances decaying into $\mu^{+}\mu^{-}$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.

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

- CCCXCVI. **Measurement of W +/- Z production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**

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

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- CCCXCVII. **Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment**

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

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- :CCXCVIII. **Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s}=13$ TeV with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.793, ss.499-519, 2019 (SCI-Expanded)

- CCCXCIX. **Observation of electroweak $W(+/-)Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**

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

PHYSICS LETTERS B, cilt.793, ss.469-492, 2019 (SCI-Expanded)

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

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

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- CDI. **Modelling radiation damage to pixel sensors in the ATLAS detector**

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

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

- CDII. **Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb(-1) of proton-proton collision data at $\sqrt{s}=13$ TeV**

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

PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)

- CDIII. **Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)

- CDIV. **Measurement of $VH, H \rightarrow b(\bar{b})$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)

- CDV. **Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s}=13$ TeV pp collision data collected by the ATLAS detector**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)

- CDVI. **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., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDVII. **Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at root $s=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDVIII. **Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at root $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CDIX. **Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at root $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDX. **Measurements of inclusive and differential fiducial cross-sections of $t(\bar{t})\gamma$ production in leptonic final states at root $s=13$ TeV in ATLAS**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CDXI. **Combinations of single-top-quark production cross-section measurements and vertical $f(LV)V(\bar{t}b)$ determinations at root $s=7$ 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.
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- CDXII. **Measurement of the $t(\bar{t})Z$ and $t(\bar{t})W$ cross sections in proton-proton collisions at root $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
PHYSICAL REVIEW D, cilt.99, sa.7, 2019 (SCI-Expanded)
- CDXIII. **Study of the rare decays of B^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., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXIV. **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 root $s=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- CDXV. **Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at root $s=13$ and 8 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CDXVI. **Search for Higgs boson pair production in the $b(\bar{b})WW^*$ decay mode at root $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L.,

- Abramowicz H., et al.
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- CDXVII. **Cross-section measurements of the Higgs boson decaying into a pair of tau-leptons in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.99, sa.7, 2019 (SCI-Expanded)
- CDXVIII. **Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CDXIX. **Measurements of inclusive and differential fiducial cross-sections of t(t)over-bar production with additional heavy-flavour jets in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXX. **Measurement of the top quark mass in the t(t)over-bar -> lepton plus jets channel from root s=8 TeV ATLAS data and combination with previous results**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.4, 2019 (SCI-Expanded)
- CDXXI. **Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at root s=8 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.790, ss.595-614, 2019 (SCI-Expanded)
- CDXXII. **Search for Higgs boson decays into a pair of light bosons in the bb mu mu final state in pp collision at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.790, ss.1-21, 2019 (SCI-Expanded)
- CDXXIII. **Measurements of W and Z boson production in pp collisions at root s=5.02 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.2, 2019 (SCI-Expanded)
- CDXXIV. **Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.789, ss.167-190, 2019 (SCI-Expanded)
- CDXXV. **Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the H -> WW* -> e nu mu nu decay channel in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.789, ss.508-529, 2019 (SCI-Expanded)
- CDXXVI. **Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L.,

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EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.1, 2019 (SCI-Expanded)
- CDXXVII. **Search for squarks and gluinos in final states with hadronically decaying tau-leptons, jets, and missing transverse momentum using pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)
- CDXXVIII. **Search for pairs of highly collimated photon-jets in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)
- CDXXIX. **Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.788, ss.347-370, 2019 (SCI-Expanded)
- CDXXX. **Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXXXI. **Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)
- CDXXXII. **Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at root s=13 TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)
- CDXXXIII. **Search for Higgs boson pair production in the..WW * channel using pp collision data recorded at v s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXXXIV. **Search for resonant W Z production in the fully leptonic final state in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
PHYSICS LETTERS B, cilt.787, ss.68-88, 2018 (SCI-Expanded)
- CDXXXV. **Measurement of the azimuthal anisotropy of charged particles produced in root s NN=5.02 TeV Pb+Pb collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXXXVI. **Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at >=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S.,

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- CDXXXVII. **Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at E-beam=4 TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
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- DXXXVIII. **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. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
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- CDXXXIX. **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**
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CDLXVIII. **Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at root s=13 TeV**

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CDLXIX. **Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV**

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CDLXX. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV**

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CDLXXI. **Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at root s=13 TeV**

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CDLXXII. **Measurement of normalized differential t(t)-bar cross sections in the dilepton channel from pp collisions at root s=13 TeV**

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CDLXXIII. **Search for vectorlike light-flavor quark partners in proton-proton collisions at root s=8 TeV**

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CDLXXIV. **Measurement of associated Z + charm production in proton-proton collisions at sqrt(s)=8TeV**

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CDLXXV. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root s=13 TeV**

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CDLXXVI. **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root s(NN)=5.02 TeV**

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CDLXXVII. **Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at sqrt(s)=7TeV**

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- DLXXVIII. **Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at root s=13 TeV**
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- DLXXXIII. **Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at root s=13 TeV**
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- DLXXXIV. **Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at root S-NN=5.02 TeV**
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- I. **Software Performance of the ATLAS Track Reconstruction for LHC Run 3**
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- III. **AtlFast3: The Next Generation of Fast Simulation in ATLAS**
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- IV. **Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events**
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- I. **KAHVE Laboratory Status and Plans**
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- II. **Permanent Magnet Microwave Discharge Ion Source & Its LEBT Line**
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