

Prof. Dr. AYSEL KAYIŞ TOPAKSU

Kişisel Bilgiler

İş Telefonu: [+90 322 338 6084](tel:+903223386084) Dahili: 2471

İş Telefonu: [+90 322 338 6084](tel:+903223386084) Dahili: 2545

Fax Telefonu: [+90 322 338 6070](tel:+903223386070)

E-posta: kaysel@cu.edu.tr

Diğer E-posta: Aysel.Kayis@cern.ch

Web: <https://avesis.cu.edu.tr//kaysel>

Uluslararası Araştırmacı ID'leri

ScholarID: [AktkR2cAAAAJ](https://orcid.org/0000-0002-3169-4573)

ORCID: 0000-0002-3169-4573

Publons / Web Of Science ResearcherID: B-8910-2018

ScopusID: 6603006083

Yoksis Araştırmacı ID: 1369

Eğitim Bilgileri

Yüksek Lisans-İkinci Öğretim Tezsiz, Çukurova Üniversitesi, İktisadi Ve İdari Bilimler Fakültesi, Yönetim Ve Organizasyon, Türkiye 2016 - 2017

Lisans, Anadolu Üniversitesi, Açıköğretim Fakültesi, İşletme , Türkiye 2013 - 2016

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 1995 - 1999

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri, Fizik, Türkiye 1992 - 1995

Lisans, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Türkiye 1989 - 1992

Yabancı Diller

İngilizce, C1 İleri

Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, European Research Conference on Frontiers in Particle Astrophysics and Cosmology, Munich, 2001

Eğitim Yönetimi ve Planlama, NATO ASI 2000 Recent Developments in Particle Physics and Cosmology, NATO- ASI, 2000

Eğitim Yönetimi ve Planlama, 27. ITEP Winter School of Physics, ITEP (Institute for Theoretical and Experimental Physics), 1999

Eğitim Yönetimi ve Planlama, Techniques and Concept of High Energy Physics, School -A.B.D Virgin Islands, 1998

Eğitim Yönetimi ve Planlama, European School of High Energy Physics, CERN-JINR, 1996

Eğitim Yönetimi ve Planlama, CERN Summer Student Programme, CERN PH Department, 1993

Yaptığı Tezler

Doktora, A Study On Increasing the Sensitivity of the CHORUS Neutrino Detector, Çukurova Üniversitesi, Fen Bilimleri, Yüksek Enerji Ve Plazma, 1999

Yüksek Lisans, CHORUS Nötrino Osilasyon Deneyinde Kullanılan Muon Spektrometresinin Simülasyonu, Çukurova Üniversitesi, Fen Bilimleri, Fizik, 1995

Araştırma Alanları

Fizik, Nükleer Fizik, Temel Parçacıklar ve Alanlar , Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2008 - Devam Ediyor

Doç. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2003 - 2008

Araştırma Görevlisi Dr., –Seçiniz–, İsviçre, Cern (European Organization For Nuclear Research, Research Fellow), Ph Dep., 2003 - 2005

Yrd. Doç. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2000 - 2003

Akademik İdari Deneyim

Çukurova Üniversitesi, 2013 - Devam Ediyor

Verdiği Dersler

Parçacık Fiziği, Lisans, 2016 - 2017

Analiz, Lisans, 2013 - 2014

Yönetilen Tezler

KAYIŞ TOPAKSU A., Classical jet shape measurements in proton-proton collisions at CMS experiment / CMS deneyinde 7x7 TeV'lik proton-proton çarpışmasında jet şekillerinin araştırılması, Doktora, K.Özdemir(Öğrenci), 2014

KAYIŞ TOPAKSU A., Momentum scale calibration of muon momentum tracks using the muon pairs from J/psi decays and installation and commissioning work in CMS at CERN, Doktora, G.Gökbulut(Öğrenci), 2014

KAYIŞ TOPAKSU A., Search For Extra Dimensions with Mono-jet Final States in CMS Proton Collisions at 7 TeV, Doktora, L.Nükhet(Öğrenci), 2011

KAYIŞ TOPAKSU A., Extra GAUGE Bosons in E6 Models, Doktora, H.Arslan(Öğrenci), 2008

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınav Jürisi, ÜAK, Şubat, 2013

Doçentlik Sınavı, Doçentlik Sınav Jürisi, ÜAK, Haziran, 2012

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. Measurement of the polarizations of prompt and non-prompt [Formula presented] and $\psi(2S)$ mesons produced in pp collisions at $s=13\text{TeV}$

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.858, 2024 (SCI-Expanded)

- II. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.16, ss.161805, 2024 (SCI-Expanded)
- III. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.14, ss.142301, 2024 (SCI-Expanded)
- IV. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- V. **Measurement of differential ZZ + jets production cross sections in pp collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- VI. **Observation of the $\Lambda b^0 \rightarrow J/\psi \Xi^- K^+$ decay**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
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- VII. **KS^0 and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $s_{NN}=5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- VIII. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- IX. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- X. **Exploring atmospheric neutrino oscillations at ESSnuSB**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XI. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of Instrumentation, cilt.19, sa.9, 2024 (SCI-Expanded)
- XII. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$ TeV using leptonic W boson decays**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XIII. **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

Escalante Del Valle A., Hussain P., et al.

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- XIV. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.133, sa.7, 2024 (SCI-Expanded)
- XV. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XVI. **Evidence for tWZ production in proton-proton collisions at $s=13\text{ TeV}$ in multilepton final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.855, 2024 (SCI-Expanded)
- XVII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XVIII. **Decoherence in neutrino oscillation at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XIX. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.3, 2024 (SCI-Expanded)
- XX. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XXI. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.133, sa.2, 2024 (SCI-Expanded)
- XXII. **Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- XXIII. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXIV. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

- Hussain P., Jeitler M., et al.
Reports on Progress in Physics, cilt.87, sa.7, 2024 (SCI-Expanded)
- XXV. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXVI. **Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXVII. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.7, 2024 (SCI-Expanded)
- XXVIII. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXIX. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at $\sqrt{s}=13 \text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXX. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.132, sa.26, 2024 (SCI-Expanded)
- XXXI. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.132, sa.24, 2024 (SCI-Expanded)
- XXXII. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXIII. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXIV. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXV. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at**

Formula Presented

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

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XXXVI. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)

XXXVII. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)

XXXVIII. **Study of nonstandard interactions mediated by a scalar field at the ESSnuSB experiment**

Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.

Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)

XXXIX. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)

XL. **Development of the CMS detector for the CERN LHC Run 3**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.

Journal of Instrumentation, cilt.19, sa.5, 2024 (SCI-Expanded)

XLII. **Measurement of simplified template cross sections of the Higgs boson produced in association with w or z bosons in the Formula Presented decay channel in proton-proton collisions at Formula Presented**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physical Review D, cilt.109, sa.9, 2024 (SCI-Expanded)

XLII. **Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu b\bar{b}$ and $\tau\tau b\bar{b}$ final states**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.

European Physical Journal C, cilt.84, sa.5, 2024 (SCI-Expanded)

XLIII. **Search for W' bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at $s = 13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)

XLIV. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

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XLV. **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)

XLVI. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and**

two bottom quarks in proton-proton collisions at (Formula presented.)

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

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XLVII. Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.852, 2024 (SCI-Expanded)

XLVIII. Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6\text{ TeV}$

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)

XLIX. Timing performance of the CMS High Granularity Calorimeter prototype

Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhousseini M., Alison J., Alpana A., et al.

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L. Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at Formula Presented

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical Review D, cilt.109, sa.7, 2024 (SCI-Expanded)

LI. Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at Formula Presented

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical Review D, cilt.109, sa.7, 2024 (SCI-Expanded)

LII. New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical Review Letters, cilt.132, sa.11, 2024 (SCI-Expanded)

LIII. Search for dark matter particles in $W+W-$ events with transverse momentum imbalance in proton-proton collisions at $s = 13\text{ TeV}$

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of High Energy Physics, cilt.2024, sa.3, 2024 (SCI-Expanded)

LIV. Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13\text{TeV}$

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)

LV. Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $s_{NN}=5.02\text{TeV}$

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)

LVI. Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16\text{ TeV}$

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

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LVII. Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a

jet and a charged lepton

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

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LVIII. Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13$ TeV

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LIX. Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV

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LX. Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{S} = 13$ TeV

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LXI. Higher-order moments of the elliptic flow distribution in PbPb collisions at $s_{NN} = 5.02$ TeV

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LXII. Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

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LXIII. Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC

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LXIV. Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $s_{NN} = 5.02$ TeV

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LXV. Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)

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LXVI. Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV

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LXVII. Luminosity determination using Z boson production at the CMS experiment

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- LXVIII. **Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at $s = 13$ TeV**
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- LXXIV. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
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- LXXV. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at root $s=13$ TeV**
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- LXXXV. **Observation of B-s(0) mesons and measurement of the B-s(0)/B+ yield ratio in PbPb collisions at $\sqrt{s-NN}=5.02$ TeV**
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- XCV. **Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at root s=13 TeV**
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- CXXIV. **Search for top squark production in fully hadronic final states in proton-proton collisions at root s=13 TeV**
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- CXXV. **Search for W ' bosons decaying to a top and a bottom quark at root s=13 TeV in the hadronic final state**
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- CXXVI. **Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at root s(NN)=5.02 TeV**
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- CXXVII. **Search for lepton-flavor violating decays of the Higgs boson in the mu tau and e tau final states in proton-proton collisions at root s=13 TeV**
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- CXXVIII. **Hard color-singlet exchange in dijet events in proton-proton collisions at root s=13 TeV**
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- CXXIX. **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at root s=13 TeV**
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- CXXX. **Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at root s=13 TeV**
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- CXXXI. **Search for long-lived particles using displaced jets in proton-proton collisions at root s=13 TeV**
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- CXXXII. **Search for resonant and nonresonant new phenomena in high-mass dilepton final states at root $s=13$ TeV**
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- CXXXIII. **Performance of the CMS muon trigger system in proton-proton collisions at root $s=13$ TeV**
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- CXXXIV. **Measurement of the W gamma Production Cross Section in Proton-Proton Collisions at root $s=13$ TeV and Constraints on Effective Field Theory Coefficients**
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- CXXXV. **Observation of a New Excited Beauty Strange Baryon Decaying to $\Xi(-)(b)\pi(+)\pi(-)$**
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- CXXXVI. **Measurements of the differential cross sections of the production of Z plus jets and gamma plus jets and of Z boson emission collinear with a jet in pp collisions at root $s=13$ TeV**
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- CXXXVII. **In-medium modification of dijets in PbPb collisions at root $s(NN)=5.02$ TeV**
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- CXXXVIII. **Measurement of prompt D-0 and D-0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at root $S-NN=5.02$ TeV**
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- CXL. **First measurement of large area jet transverse momentum spectra in heavy-ion collisions**
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- CXLI. **Duffin-Kemmer-Petiau equation and thermodynamic quantities**
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- CXLII. **Construction and commissioning of CMS CE prototype silicon modules**
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- CXLIII. **Development and validation of HERWIG 7 tunes from CMS underlying-event measurements**
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- CXLIV. **The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype**

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- CXLV. **Measurement of differential $t(\bar{t})$ over-bar production cross sections using top quarks at large transverse momenta in pp collisions at root $s=13$ TeV**
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- CXLVI. **Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies**
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- CXLVII. **The very forward CASTOR calorimeter of the CMS experiment**
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- CXLVIII. **Search for the lepton flavor violating decay $\tau \rightarrow 3 \mu$ in proton-proton collisions at root $s=13$ TeV**
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- CXLIX. **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at root $s(NN)=8.16$ TeV**
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PHYSICAL REVIEW C, cilt.103, sa.1, 2021 (SCI-Expanded)
- CL. **Evidence for Higgs boson decay to a pair of muons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CLI. **Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)
- CLII. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CLIII. **Dependence of inclusive jet production on the anti- $k(T)$ distance parameter in pp collisions at root $s=13$ TeV**
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- CLIV. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at root $s=13$ TeV**
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PHYSICS LETTERS B, cilt.811, 2020 (SCI-Expanded)
- CLV. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in**

proton-proton collisions at root s=13 TeV

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JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2020 (SCI-Expanded)

CLVI. Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

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

CLVII. Search for decays of the 125 GeV Higgs boson into a Z boson and a rho or phi meson

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JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2020 (SCI-Expanded)

CLVIII. Evidence for Top Quark Production in Nucleus-Nucleus Collisions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW LETTERS, cilt.125, sa.22, 2020 (SCI-Expanded)

CLIX. Measurement of B-c(2S)(+) and B-c*(2S)(+) cross section ratios in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)

CLX. W+ W- boson pair production in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)

CLXI. Measurement of the top quark Yukawa coupling from t(t)over-bar kinematic distributions in the dilepton final state in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)

CLXII. Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)

CLXIII. Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICS LETTERS B, cilt.809, 2020 (SCI-Expanded)

CLXIV. Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)

CLXV. Observation of the B-s(0) -> X(3872)phi Decay

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

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CLXVI. Performance of the CMS Level-1 trigger in proton-proton collisions at root s=13 TeV

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- CLXVII. **Observation of the Production of Three Massive Gauge Bosons at root s=13 TeV**
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- CLXVIII. **Search for a light charged Higgs boson in the H[±] → cs channel in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
 PHYSICAL REVIEW D, cilt.102, sa.7, 2020 (SCI-Expanded)
- CLXIX. **Pileup mitigation at CMS in 13 TeV data**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
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- CLXX. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 PHYSICAL REVIEW LETTERS, cilt.125, sa.10, 2020 (SCI-Expanded)
- CLXXI. **Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2020 (SCI-Expanded)
- CLXXII. **Measurement of the Y(1S) pair production cross section and search for resonances decaying to Y(1S)μ⁽⁺⁾μ⁽⁻⁾ in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
 PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- CLXXIII. **Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
 PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- CLXXIV. **Measurements of tt^{over-bar}H Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
 PHYSICAL REVIEW LETTERS, cilt.125, sa.6, 2020 (SCI-Expanded)
- CLXXV. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
 PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CLXXVI. **Search for a light pseudoscalar Higgs boson in the boosted μ μ τ τ final state in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
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- CLXXVII. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS**

data at root 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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CLXXVIII. Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)

CLXXIX. Measurement of $t(\bar{t})$ over-bar normalised multi-differential cross sections in pp collisions at root s=13 TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

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

CLXXX. Search for disappearing tracks in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICS LETTERS B, cilt.806, 2020 (SCI-Expanded)

CLXXXI. Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

CLXXXII. The production of isolated photons in PbPb and pp collisions at root s(NN)=5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

CLXXXIII. Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

CLXXXIV. Measurement of the cross section for $t(\bar{t})$ over-bar production with additional jets and b jets in pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

CLXXXV. Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)

CLXXXVI. Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in in pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.

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

CLXXXVII. Search for dijet resonances using events with three jets in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M.,

- Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- .LXXXVIII. **A measurement of the Higgs boson mass in the diphoton decay channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- CLXXXIX. **Strange hadron production in pp and pPb collisions at $\sqrt{s}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW C, cilt.101, sa.6, 2020 (SCI-Expanded)
- CXC. **Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive W-
+/- and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2020 (SCI-Expanded)
- CXCI. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)
- CXCII. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in
proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2020 (SCI-Expanded)
- CXCIII. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse
momentum at 13 TeV with the CMS experiment**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2020 (SCI-Expanded)
- CXCIV. **Measurement of differential cross sections and charge ratios for t-channel single top quark
production in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CXCV. **Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=13$ TeV**
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- CXCVI. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-
proton collisions at $\sqrt{s}=13$ TeV**
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- CXCVII. **Production of $\Lambda^+(c)$ baryons in proton-proton and lead-lead collisions at $\sqrt{s}=5.02$
TeV**
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- CXCVIII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13$
TeV**

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- CCXCIX. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
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- CC. **Constraints on the $\chi(c1)$ versus $\chi(c2)$ Polarizations in Proton-Proton Collisions at root $s=8$ TeV**
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- CCI. **Measurement of the $t(\bar{t})$ over $b(\bar{b})$ production cross section in the all-jet final state in pp collisions at root $s=13$ TeV**
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- CCII. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at root $s=13$ TeV**
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- CCIII. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at root $s=13$ TeV**
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- CCIV. **Measurement of properties of $B(s)(0)s \rightarrow \mu(+)\mu(-)$ decays and search for $B-0 \rightarrow \mu(+)\mu(-)$ with the CMS experiment**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCV. **Running of the top quark mass from proton-proton collisions at root $s=13$ TeV**
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- CCVI. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCVII. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at root $s=13$ TeV**
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- CCVIII. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCIX. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow l^+l^-$**

$l\bar{l}bb$ process in pp collisions at $\sqrt{s}=13$ TeV

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CCX. Search for supersymmetry in pp collisions at $\sqrt{s}=13$ TeV with 137 fb^{-1} in final states with a single lepton using the sum of masses of large-radius jets

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)

CCXI. Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

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

CCXII. Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

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CCXIII. Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

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CCXIV. A search for the standard model Higgs boson decaying to charm quarks

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

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CCXV. Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

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CCXVI. Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

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

CCXVII. Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

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CCXVIII. Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

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

CCXIX. Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A.

- E., Flechl M., et al.
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- CCXX. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft tau Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.124, sa.4, 2020 (SCI-Expanded)
- CCXXI. **Observation of nuclear modifications in W-+/- boson production in pPb collisions at root s(NN)=8.16 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXII. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at root s d=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCXXIII. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2020 (SCI-Expanded)
- CCXXIV. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCXXV. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXVI. **Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCXXVII. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXVIII. **Probing the chiral magnetic wave in pPb and PbPb collisions at root S-NN=5.02 TeV using charge-dependent azimuthal anisotropies**
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- CCXXIX. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

- PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXX. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXI. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.123, sa.24, 2019 (SCI-Expanded)
- CCXXXII. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXIII. **Measurements of differential Z boson production cross sections in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXIV. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root S-NN=5.44 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.799, 2019 (SCI-Expanded)
- CCXXXV. **Search for long-lived particles using delayed photons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXXVI. **Study of the B+ -> J/psi(Lambda)over-bar p decay in proton-proton collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCXXXVII. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXVIII. **Search for new physics in top quark production in dilepton final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.11, 2019 (SCI-Expanded)
- CCXXXIX. **Search for MSSM Higgs bosons decaying to mu(+)mu(-) in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXL. **Search for supersymmetry using Higgs boson to diphoton decays at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2019 (SCI-Expanded)
- CCXLI. **Search for anomalous electroweak production of vector boson pairs in association with two jets in**

proton-proton collisions at 13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)

CCXLII. Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)

CCXLIII. Measurement of the top quark Yukawa coupling from $t(\bar{t})$ over-bar kinematic distributions in the lepton plus jets final state in proton-proton collisions at root $s=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW D, cilt.100, sa.7, 2019 (SCI-Expanded)

CCXLIV. Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2019 (SCI-Expanded)

CCXLV. Charged-particle angular correlations in XeXe collisions at root $s(\text{NN})=5.44$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW C, cilt.100, sa.4, 2019 (SCI-Expanded)

CCXLVI. Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at root $s=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

PHYSICAL REVIEW LETTERS, cilt.123, sa.13, 2019 (SCI-Expanded)

CCXLVII. Measurement of B-s(0) meson production in pp and PbPb collisions at root $S\text{-NN}=5.02$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, cilt.796, ss.168-190, 2019 (SCI-Expanded)

CCXLVIII. Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, cilt.795, ss.76-99, 2019 (SCI-Expanded)

CCXLIX. Search for charged Higgs bosons in the $H^{+/-} \rightarrow \tau^{+/-}\nu(\tau)$ decay channel in proton-proton collisions at $s=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

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

CCL. Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to leptons

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2019 (SCI-Expanded)

CCLI. Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW D, cilt.99, sa.11, 2019 (SCI-Expanded)

- CCLII. **Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at root s=8 and 13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.793, ss.320-347, 2019 (SCI-Expanded)
- CCLIII. **Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.793, ss.520-551, 2019 (SCI-Expanded)
- CCLIV. **Search for a low-mass tau(-)tau(+) resonance in association with a bottom quark in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
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- CCLV. **Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CCLVI. **Combined measurements of Higgs boson couplings in proton-proton collisions at v s=13TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCLVII. **Combinations of single-top-quark production cross-section measurements and vertical bar f(LV)V(tb)vertical bar determinations at root s=7 and 8 TeV with the ATLAS and CMS experiments**
 Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCLVIII. **Search for an L-mu - L-tau gauge boson using Z -> 4 mu events in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.792, ss.345-368, 2019 (SCI-Expanded)
- CCLIX. **Search for a W ' boson decaying to a tau lepton and a neutrino in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, cilt.792, ss.107-131, 2019 (SCI-Expanded)
- CCLX. **Measurement and interpretation of differential cross sections for Higgs boson production at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
 PHYSICS LETTERS B, cilt.792, ss.369-396, 2019 (SCI-Expanded)
- CCLXI. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCLXII. **Search for W Boson Decays to Three Charged Pions**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

- Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCLXIII. **Measurements of the pp WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXIV. **Search for nonresonant Higgs boson pair production in the $b(b)\overline{b}(b)\overline{b}$ final state at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXV. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXVI. **Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.791, ss.96-129, 2019 (SCI-Expanded)
- CCLXVII. **Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXVIII. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.12, 2019 (SCI-Expanded)
- CCLXIX. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.509-532, 2019 (SCI-Expanded)
- CCLXX. **Measurement of nuclear modification factors of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ mesons in PbPb collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.270-293, 2019 (SCI-Expanded)
- CCLXXI. **Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXXII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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

- CCLXXIII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.3, 2019 (SCI-Expanded)
- CCLXXIV. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.140-166, 2019 (SCI-Expanded)
- CCLXXV. **Search for $t(\bar{t})$ production in the $H \rightarrow b(\bar{b})$ decay channel with leptonic $t(\bar{t})$ decays in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXXVI. **Inclusive search for supersymmetry in pp collisions at root s=13 TeV using razor variables and boosted object identification in zero and one lepton final states**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXXVII. **Search for Narrow H gamma Resonances in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- :CLXXVIII. **Search for new particles decaying to a jet and an emerging jet**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCLXXIX. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.789, ss.643-665, 2019 (SCI-Expanded)
- CCLXXX. **Measurement of differential cross sections for Z boson pair production in association with jets at root s=8 and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.789, ss.19-44, 2019 (SCI-Expanded)
- CCLXXXI. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)
- CCLXXXII. **Measurements of $t(\bar{t})$ differential cross sections in proton-proton collisions at root s=13 TeV using events containing two leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- :CLXXXIII. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)

:CLXXXIV. Search for pair production of second-generation leptoquarks at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)

CCLXXXV. Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)

:CLXXXVI. Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW LETTERS, cilt.122, 2019 (SCI-Expanded)

CLXXXVII. Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, cilt.122, sa.1, 2019 (SCI-Expanded)

:LXXXVIII. Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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:CLXXXIX. Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

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CCXC. Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at root s=8 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

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

CCXCI. Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

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

CCXCII. Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV

Sirunyan A. M., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW LETTERS, cilt.121, sa.24, 2018 (SCI-Expanded)

CCXCIII. Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

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

CCXCIV. Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del

- Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCXCV. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.22, 2018 (SCI-Expanded)
- CCXCVI. **Measurement of jet substructure observables in t(t)over-bar events from proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.98, sa.9, 2018 (SCI-Expanded)
- CCXCVII. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCXCVIII. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCXCIX. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCC. **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCI. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCI. **Measurement of the groomed jet mass in PbPb and pp collisions at root s(NN)=5:02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCI. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCI. **Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCV. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with**

two b quarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS

Collaboration

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

PHYSICS LETTERS B, cilt.785, ss.462-488, 2018 (SCI-Expanded)

CCCVI. Observation of the $Z \rightarrow \psi l^{(+)}l^{(-)}$ Decay in pp Collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

PHYSICAL REVIEW LETTERS, cilt.121, sa.14, 2018 (SCI-Expanded)

CCCVII. Precision measurement of the structure of the CMS inner tracking system using nuclear interactions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

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

CCCVIII. Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)

CCCIX. Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2l2q final states at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)

CCCX. Observation of Higgs Boson Decay to Bottom Quarks

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, cilt.121, sa.12, 2018 (SCI-Expanded)

CCCXI. Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)

CCCXII. Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)

CCCXIII. Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)

CCCXIV. Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter mediators and other new particles

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)

CCCXV. Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at root s(NN)=5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, cilt.121, sa.6, 2018 (SCI-Expanded)

- CCCXVI. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCCXVII. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root(NN)- $N-s=8.16$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.8, 2018 (SCI-Expanded)
- CCCXVIII. **Search for beyond the standard model Higgs bosons decaying into a $b(\bar{b})$ pair in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCCXIX. **Observation of the $\chi(b1)(3P)$ and $\chi(b2)(3P)$ and Measurement of their Masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.9, 2018 (SCI-Expanded)
- CCCXX. **Search for R-parity violating supersymmetry in pp collisions at root $s=13$ TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.783, ss.114-139, 2018 (SCI-Expanded)
- CCCXXI. **Nuclear modification factor of D-0 mesons in PbPb collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.782, ss.474-496, 2018 (SCI-Expanded)
- CCCXXII. **Electroweak production of two jets in association with a Z boson in proton-proton collisions root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.7, 2018 (SCI-Expanded)
- CCCXXIII. **Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CCCXXIV. **Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.782, ss.440-467, 2018 (SCI-Expanded)
- CCCXXV. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CCCXXVI. **Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CCCXXVII. **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.781, ss.244-269, 2018 (SCI-Expanded)
- :CCXXVIII. **Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXXIX. **Observation of (tt)over-barH Production**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.23, 2018 (SCI-Expanded)
- CCCXXX. **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI-Expanded)
- CCCXXXI. **Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CCCXXXII. **Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**
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- :CCXXXIII. **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV**
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- :CCXXXVI. **Search for t(t)over-barH production in the all-jet final state in proton-proton collisions root s=13 TeV**
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- CCCXXXVII. **Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV**

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- :CXXXVIII. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at root s=13 TeV**
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- CCCXL. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV**
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- CCCXLIII. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root s=13 TeV**
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- CCCXLIV. **Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector**
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- CCCXLV. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root s=13 TeV**
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- CCCXLVII. **Combination of inclusive and differential t(t)over-bar charge asymmetry measurements using ATLAS and CMS data at root S=7 and 8 TeV**
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- :CCXLVIII. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**
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- CCCXLIX. **Measurement of the associated production of a single top quark and a Z boson in pp collisions at, root s=13 TeV**
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- CCCL. **Measurement of the inclusive $t(\bar{t})$ cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton**
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- CCCLI. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root s=13 TeV**
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- CCCLII. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**
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- CCCLIII. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV**
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- CCCLIV. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**
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- CCCLV. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
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- CCCLVI. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**
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- CCCLVII. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- CCCLVIII. **Search for resonant and nonresonant Higgs boson pair production in the $b(\bar{b})l\nu l\nu$ final state in proton-proton collisions at root s=13 TeV**

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- CCCLIX. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
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- CCCLX. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
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- CCCLXI. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**
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- CCCLXII. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
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- CCCLXIII. **Measurement of charged pion, kaon, and proton production in proton-proton collisions at root s=13 TeV**
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- CCCLXIV. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV**
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- CCCLXV. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at root s=13 TeV**
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- CCCLXVI. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root s=13 TeV**
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- CCCLXVII. **Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions**
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- :CCLXVIII. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
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- CCCLXIX. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- CCCLXX. **Search for associated production of dark matter with a Higgs boson decaying to $b(b)\overline{b}$ or $\gamma\gamma$ at root $s=13$ TeV**
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- CCCLXXI. **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)= 8 TeV**
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- CCCLXXII. **Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at root $s=8$ TeV**
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- CCCLXXIII. **Measurement of the $B^{+/-}$ Meson Nuclear Modification Factor in Pb-Pb Collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- CCCLXXIV. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- CCCLXXV. **Search for Supersymmetry in pp Collisions at root $s=13$ TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
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- CCCLXXVI. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root $s=13$ TeV**
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- CCCLXXVII. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root $s=13$ TeV**
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EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.9, 2017 (SCI-Expanded)
- CCCLXXVIII. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root $s=13$ TeV**
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- CCCLXXIX. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root $s(NN)=5.02$**

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PHYSICAL REVIEW LETTERS, cilt.119, sa.8, 2017 (SCI-Expanded)

- CCCLXXX. **Measurement of the top quark mass in the dileptonic $t(\bar{t})$ over-bar decay channel using the mass observables M_{bl} , M_{T2} , and M_{blv} in pp collisions at $\sqrt{s}=8$ TeV**

Sirunyan A. M., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)

- CCCLXXXI. **Search for heavy gauge W' bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s}=13$ TeV**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, cilt.770, ss.278-301, 2017 (SCI-Expanded)

- CCLXXXII. **Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.770, ss.50-71, 2017 (SCI-Expanded)

- CLXXXIII. **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**

POLATÖZ A., KAYIŞ TOPAKSU A., DUMANOĞLU İ., Collaboration C.

PHYSICS LETTERS B, cilt.768, ss.103-129, 2017 (SCI-Expanded)

- CLXXXIV. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, cilt.768, ss.137-162, 2017 (SCI-Expanded)

- CCLXXXV. **Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at $\sqrt{s}(NN)=5.02$ TeV**

DUMANOĞLU İ., KAYIŞ TOPAKSU A., TUMASYAN A., Wolfgang A., Albert S.

PHYSICAL REVIEW LETTERS, cilt.118, ss.1-20, 2017 (SCI-Expanded)

- CLXXXVI. **Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states**

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2017 (SCI-Expanded)

- CLXXXVII. **Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, cilt.767, ss.147-170, 2017 (SCI-Expanded)

- LXXXVIII. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at $\sqrt{s}=8$ TeV**

Khachatryan V., SIRUNYAN A. M., Wolfgang A., Tumasyan A., ASILAR E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.

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- CLXXXIX. **Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=13$ TeV**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, cilt.766, ss.268-290, 2017 (SCI-Expanded)

- CCCXC. **Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**
 Khachatryan V., Tumasyan A., SIRUNYAN A. M., Wolfgang A., Asiler E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
 PHYSICAL REVIEW LETTERS, cilt.118, sa.12, ss.1-20, 2017 (SCI-Expanded)
- CCCXCI. **Measurement of the $t(\bar{t})$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV**
 Khachatryan V., SIRUNYAN A. M., Tumasyan A., Wolfgang A., Asiler E., BRANDSTETTER J., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
 EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.3, ss.1-20, 2017 (SCI-Expanded)
- CCCXCII. **Search for lepton flavour violating decays of the Higgs boson to $e\tau$ and $e\mu$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICS LETTERS B, cilt.763, ss.472-500, 2016 (SCI-Expanded)
- CCCXCIII. **Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at TeV**
 The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCCXCIV. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.
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- CCCXCV. **Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s}=7$ and 8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brandstetter J., DUMANOĞLU İ., EŞKUT E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.10, ss.1-52, 2016 (SCI-Expanded)
- CCCXCVI. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW D, cilt.94, sa.5, 2016 (SCI-Expanded)
- CCCXCVII. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV**
 Khachatryan V., Albert S., Tumasyan A., Wolfgang A., Ece A., Bergauer T., Brandstetter J., Brondolin E., DUMANOĞLU İ., POLATÖZ A., et al.
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- :CCXCVIII. **Combined search for anomalous pseudoscalar HW couplings in $VH(H \rightarrow b\bar{b})$ production and $H \rightarrow VV$ decay**
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- CDLXIX. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**

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- CDLXX. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**

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- CDLXXI. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**

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- CDLXXII. **Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs**

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- CDLXXIII. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at root s=7 TeV**

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- CDLXXIV. **Search for exotic resonances decaying into WZ/ZZ in pp collisions at root s=7 TeV**

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- CDLXXV. **Search for contact interactions in mu(+)mu(-) events in pp collisions at root s = 7 TeV**

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- CDLXXVI. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**

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- DLXXVIII. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**

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- CDLXXIX. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**

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- D. **Combined search for the quarks of a sequential fourth generation**
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- DI. **Observation of Z decays to four leptons with the CMS detector at the LHC**
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- DIII. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**
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- DVI. **Inclusive and differential measurements of the t(t)over-bar charge asymmetry in proton-proton collisions root s=7 TeV**
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- DIX. **Performance of CMS muon reconstruction in pp collision events at root s=7TeV**
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- DLXXXVIII. **Search for Supersymmetry in pp Collisions at root $s=7$ TeV in Events with Two Photons and Missing Transverse Energy**
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- DLXXXIX. **Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at root $s=7$ TeV**
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- DXCII. Strange particle production in pp collisions at root s=0.9 and 7 TeV**
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- DXCIV. First measurement of hadronic event shapes in pp collisions at root s=7 TeV**
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- DXCV. Measurement of Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV**
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- DXCVIII. Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**
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- DCIV. **Prompt and non-prompt J/psi production in pp collisions at root s=7 TeV**
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- DCV. **Search for heavy stable charged particles in pp collisions at root s=7 TeV**
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- DCVII. **First measurement of the cross section for top-quark pair production in proton-proton collisions at root s=7 TeV**
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- DCX. **Charged particle multiplicities in pp interactions at root s=0.9, 2.36, and 7 TeV**
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- DCXI. **Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at root s=7 TeV**
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- DCXIII. **CMS tracking performance results from early LHC operation**
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- DCXIV. **First measurement of the underlying event activity at the LHC with root s=0.9 TeV**
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- DCXV. **Search for Dijet Resonances in 7 TeV pp Collisions at CMS**

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DCXVI. Measurements of forward proton production with incident protons and charged pions on nuclear targets at the CERN Proton Synchrotron

Apollonio M., Artamonov A., Bagulya A., Barr G., Blondel A., Bobisut F., Bogomilov M., Bonesini M., Booth C., Borghi S., et al.

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DCXVII. Measurement of the charge ratio of atmospheric muons with the CMS detector

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DCXVIII. Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at root s=7 TeV

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DCXX. Performance studies of a full-length prototype for the CASTOR forward calorimeter at the CMS experiment

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DCXXI. Study of various photomultiplier tubes with muon beams and Cerenkov light produced in electron showers

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DCXXIII. Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays

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DCXXIV. Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data

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DCXXV. Performance study of the CMS barrel resistive plate chambers with cosmic rays

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DCXXVI. Commissioning of the CMS High-Level Trigger with cosmic rays

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- DCXXXIV. **Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data**
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- DCXXXIX. **Time reconstruction and performance of the CMS electromagnetic calorimeter**
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- DCXLIII. **Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36TeV**
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- DCXLV. **Comparison of large-angle production of charged pions with incident protons on cylindrical long and short targets**
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- DCXLVI. **Large-angle production of charged pions with incident pion beams on nuclear targets**
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- DCXLVII. **Forward production of charged pions with incident protons on nuclear targets at the CERN Proton Synchrotron**
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- DCXLVIII. **Forward production of charged pions with incident $\pi^{+/-}$ on nuclear targets measured at the CERN PS**
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- DCLI. **Forward $\pi(+/-)$ production in p-0-2 and p-N-2 interactions at 12 GeV/c**
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- DCLIII. **Leading order analysis of neutrino induced dimuon events in the CHORUS experiment**
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- DCLIV. **Design, performance, and calibration of CMS hadron-barrel calorimeter wedges**
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- DCLV. **Measurement of the production cross-sections of $\pi(+/-)$ in p-C and $\pi(+/-)$ -C interactions at 12 GeV/c**
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- DCLVI. **Large-angle production of charged pions with 3-12.9 GeV/c incident protons on nuclear targets**
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- DCLVII. **Final results on $\nu(\mu)\rightarrow\nu(\tau)$ oscillation from the CHORUS experiment**
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- DCLIX. **Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets**
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- DCLXI. **Design, performance, and calibration of CMS forward calorimeter wedges**
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- DCLXV. **Charged-particle multiplicities in charged-current neutrino and anti-neutrino-nucleus interactions**
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- DCLXIX. **Measurement of nucleon structure functions in neutrino scattering**
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DCLXXV. Measurement of fragmentation properties of charmed particle production in charged-current neutrino interactions

Onengut G., van Dantzig R., de Jong M., Melzer O., Oldeman R., Pesen E., Visschers J., Guler M., Kose U., Serin-Zeyrek M., et al.

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DCLXXVI. Measurement of charm production in antineutrino charged-current interactions

Onengut G., van Dantzig R., de Jong M., Melzer O., Oldeman R., Pesen E., Visschers J., Guler M., Kose U., Serin-Zeyrek M., et al.

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DCLXXVII. Energy resolution and the linearity of the CMS forward quartz fibre calorimeter pre-production-prototype (PPP-1)

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Kayis-Topaksu A., Onengut G., van Dantzig R., de Jong M., Konijn J., Melzer O., Oldeman R., Pesen E., van der Poel C., Visschers J., et al.

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DCLXXIX. Cross-section measurement for quasi-elastic production of charmed baryons in νN interactions

Kayis-Topaksu A., Onengut G., van Dantzig R., de Jong M., Melzer O., Oldeman R., Pesen E., Spada F., Visschers J., Guler M., et al.

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Kayis-Topaksu A., Onengut G., van Dantzig R., de Jong M., Konijn J., Melzer O., Oldeman R., Pesen E., van der Poel C., Spada F., et al.

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Kayis-Topaksu A., Onengut G., de Jong M., Melzer O., Oldeman R., Pesen E., Spada F., van Dantzig R., Visschers J., Guler M., et al.

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Burslar

Junior Associate(2006-2011), ICTP, İtalya, Diğer Uluslararası Organizasyonlar, 2006 - 2011

Research Fellow (2003-2005), CERN, Cenevre, İsviçre, Diğer Uluslararası Organizasyonlar, 2003 - 2005

Bütünleştirilmiş Doktora Burs Programı(1996-1999), TÜBİTAK, 1996 - 1999

Ödüller

KAYIŞ TOPAKSU A., Fen-Edebiyat Fakülte Birinciliği, Çukurova Üniversitesi, Haziran 1992

KAYIŞ TOPAKSU A., Fizik Bölüm Birincisi, Çukurova Üniversitesi, Haziran 1992

Akademi Dışı Deneyim

CERN (Avrupa Nükleer Araştırma Merkezi)