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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 Yayımlanan Makaleler

I. 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)

- II. **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)
- III. **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.
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- IV. **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)
- V. **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)
- VI. **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.
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- VII. **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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- VIII. **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)
- IX. **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)
- X. **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.
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- XI. **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.
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- XII. **Search for ZZ and ZH production in the $bb\bar{b}\bar{b}$ 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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- XIII. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the**

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Reports on Progress in Physics, cilt.87, sa.7, 2024 (SCI-Expanded)

XIV. **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.

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XV. **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.

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XVI. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**

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

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XVIII. **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)

XIX. **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.

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XX. **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.

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

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XXII. **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.

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XXIII. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay 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.853, 2024 (SCI-Expanded)

- XXIV. **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.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Timing performance of the CMS High Granularity Calorimeter prototype**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhusseini M., Alison J., Alpana A., et al.
Journal of Instrumentation, cilt.19, sa.4, 2024 (SCI-Expanded)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- XXXIV. **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)

- XXXV. **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)
- XXXVI. **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.
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- XXXVII. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical review letters, cilt.132, sa.6, ss.61801, 2024 (SCI-Expanded)
- XXXVIII. **Higher-order moments of the elliptic flow distribution 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.
Journal of High Energy Physics, cilt.2024, sa.2, 2024 (SCI-Expanded)
- XXXIX. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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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- XL. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s}=2.76 \text{ TeV}$**
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 C, cilt.109, sa.2, 2024 (SCI-Expanded)
- XLI. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., et al.
Physical Review Letters, cilt.132, sa.4, 2024 (SCI-Expanded)
- XLII. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physical review letters, cilt.132, sa.2, ss.21803, 2024 (SCI-Expanded)
- XLIII. **Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead 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.
Journal of High Energy Physics, cilt.2024, sa.1, 2024 (SCI-Expanded)
- XLIV. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.
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- XLV. **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ (Formula presented.)**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

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- XLVI. **Luminosity determination using Z boson production at the CMS experiment**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, cilt.84, sa.1, 2024 (SCI-Expanded)
- XLVII. **Observation of triple J/psi meson production in proton-proton collisions**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
NATURE PHYSICS, 2023 (SCI-Expanded)
- XLVIII. **Search for new particles in an extended Higgs sector with four b quarks in the final state at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICS LETTERS B, cilt.835, 2022 (SCI-Expanded)
- XLIX. **Nuclear modification of Y states in pPb collisions at root S-NN=5.02 TeV**
Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
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- L. **The European Spallation Source neutrino super-beam conceptual design report**
Aleku A., Baussan E., Bhattacharyya A. K., Kraljevic N. B., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Buchan O., Burgman A., et al.
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- LI. **Evidence for WW/WZ vector boson scattering in the decay channel l nu qq produced in association with two jets in proton-proton collisions at root s=13TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
PHYSICS LETTERS B, cilt.834, 2022 (SCI-Expanded)
- LII. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
NATURE PHYSICS, cilt.18, sa.11, 2022 (SCI-Expanded)
- LIII. **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**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
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- LIV. **Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
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- LV. **Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICAL REVIEW LETTERS, cilt.129, sa.8, 2022 (SCI-Expanded)
- LVI. **Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at root s=13 TeV**
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- JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2022 (SCI-Expanded)
- LVII. Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- LVIII. Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LIX. Identification of hadronic tau lepton decays using a deep neural network**
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- LX. Observation of the B-c(+) Meson in Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV and Measurement of its Nuclear Modification Factor**
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- LXI. Search for charged-lepton flavor violation in top quark production and decay in pp collisions at $\sqrt{s}=13$ TeV**
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- LXII. Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s}=13$ TeV**
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- LXV. Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXVII. Measurement of the inclusive and differential $t(\bar{t})\gamma$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- LXX. **Measurement of the inclusive t(t)-bar production cross section in proton-proton collisions at root s=5.02 TeV**
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- LXXV. **Study of dijet events with large rapidity separation in proton-proton collisions at root s=2.76 TeV**
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- LXXVI. **Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions**
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- LXXVII. **Search for long-lived particles produced in association with a Z boson in proton-proton collisions at root s=13 TeV**
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Lorentz-boosted W bosons

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LXXXIX. A new calibration method for charm jet identification validated with proton-proton collision events at root s=13 TeV

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LXXX. Search for heavy resonances decaying to WW, WZ, or WH boson pairs in a final state consisting of a lepton and a large-radius jet in proton-proton collisions at root s=13 TeV

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LXXXI. Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of tau Leptons in pp Collisions at root s=13 TeV

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LXXXII. Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at root s=13 TeV

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LXXXIII. Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at root s=13 TeV

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LXXXIV. Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at root s=13 TeV

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LXXXV. Fragmentation of jets containing a prompt J/psi meson in PbPb and pp collisions at root s(NN)=5.02 TeV

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LXXXVI. Study of quark and gluon jet substructure in Z plus jet and dijet events from pp collisions

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LXXXVII. Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at root s=13 TeV

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LXXXVIII. Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at root s(NN)=5.02 TeV

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- XCIX. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production**

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- CII. **Search for top squark production in fully hadronic final states in proton-proton collisions at root s=13 TeV**
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- CXXVII. **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s(NN)}=8.16$ TeV**
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- CXXVIII. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CXL. **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**
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- CXLI. **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**
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- CXLV. **Search for a light charged Higgs boson in the $H \rightarrow c\bar{s}$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CXLVIII. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CL. **Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CLI. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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- CLII. **Measurements of $t\bar{t}$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**

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- CLIII. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV**

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- CLIV. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CLV. **Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at root s=13 TeV**
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- CLVI. **Search for a light pseudoscalar Higgs boson in the boosted mu mu tau tau final state in proton-proton collisions at root s=13 TeV**
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- CLVII. **Measurement of t(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**
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- CLVIII. **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**
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- CLXI. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
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- CLXIII. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at root s=13TeV and constraints on anomalous quartic couplings**
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- CLXVI. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
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- CLXXI. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**
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- CLXXIII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at root s=13 TeV**
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- CLXXIV. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at mml:msqrts mml:msqrt=13 mml:mpace width="0.166667em"mml:mpaceTe mml:mpace width="0.333333em"mml:mpace**
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- CLXXVI. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at root s=13 TeV**

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- CLXXIX. **Measurement of properties of $B(s)(0)s \rightarrow \mu(+) \mu(-)$ decays and search for $B-0 \rightarrow \mu(+) \mu(-)$ with the CMS experiment**
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- CLXXX. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
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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- CLXXXI. **Production of $\Lambda(+)(c)$ baryons in proton-proton and lead-lead collisions at root S-NN=5.02 TeV**
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- CLXXXII. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at root 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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- CLXXXIII. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at root s=13TeV**
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- CLXXXIV. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow \mu^+ \mu^- b \bar{b}$ process in pp collisions at $\sqrt{s}=13$ TeV**
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- CLXXXV. **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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- CLXXXVI. **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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- PHYSICS LETTERS B, cilt.802, 2020 (SCI-Expanded)
- CLXXXVII. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXXVIII. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV**
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- CLXXXIX. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at root s=13 TeV**
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- CXC. **Search for supersymmetry in pp collisions at root 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)
- CXCI. **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 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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- CXCII. **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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- CXCIII. **Search for top quark pair production in a final state with two tau leptons 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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- CXCIV. **Combined search for supersymmetry with photons in proton-proton collisions at root s=13 TeV**
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- CXCV. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at root s=13 TeV**
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- CXCVI. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at root s=13 TeV**
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- CXCVII. **Search for production of four top quarks in final states with same-sign or multiple leptons 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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- CXCVIII. **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.
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- CXCIX. **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**
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- CC. **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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- CCI. **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**
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- CCII. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
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- CCIII. **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**
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- CCIV. **Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**
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- CCV. **Measurements of differential Z boson production cross sections in proton-proton collisions at root s=13 TeV**
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- CCVI. **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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- CCVII. **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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- CCVIII. **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.
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- CCIX. **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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- CCX. **Study of the $B^+ \rightarrow J/\psi(\Lambda)\text{over-bar}p$ 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2019 (SCI-Expanded)
- CCXI. **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**
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- CCXII. **Search for long-lived particles using delayed photons in proton-proton collisions at root s=13 TeV**
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PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXIII. **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)
- CCXIV. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
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- CCXV. **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)
- CCXVI. **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)
- CCXVII. **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.
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- CCXVIII. **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)
- CCXIX. **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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2019 (SCI-Expanded)

CCXX. 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)

CCXXI. 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 $\sqrt{s}=13$ 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.

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

CCXXII. 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)

CCXXIII. Charged-particle angular correlations in XeXe collisions at $\sqrt{s(NN)}=5.44$ 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.

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

CCXXIV. 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 $\sqrt{s}=13$ 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.

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

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

CCXXVI. 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)

CCXXVII. Search for charged Higgs bosons in the $H\text{-}+/- \rightarrow \tau(+/-)\nu(\tau)$ decay channel 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.7, 2019 (SCI-Expanded)

CCXXVIII. Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at=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)

CCXXIX. 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)
- CCXXX. **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)
- CCXXXI. **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)
- CCXXXII. **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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCXXXIII. **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)
- CCXXXIV. **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)
- CCXXXV. **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., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCXXXVI. **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)
- CCXXXVII. **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)
- :CXXXVIII. **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)
- CCXXXIX. **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)
- CCXL. **Measurements of the pp WZ inclusive and differential production cross sections and constraints on**

charged anomalous triple gauge couplings 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.4, 2019 (SCI-Expanded)

CCXLI. 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)

CCXLII. Search for nonresonant Higgs boson pair production in the $b(b)\overline{b}(b)\overline{b}$ final state 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.4, 2019 (SCI-Expanded)

CCXLIII. Search for contact interactions and large extra dimensions in the dilepton mass spectra from 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.4, 2019 (SCI-Expanded)

CCXLIV. Measurements of properties of the Higgs boson decaying to a W boson pair 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.

PHYSICS LETTERS B, cilt.791, ss.96-129, 2019 (SCI-Expanded)

CCXLV. Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets 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.3, 2019 (SCI-Expanded)

CCXLVI. Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13$ 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)

CCXLVII. 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)

CCXLVIII. Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states 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., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)

CCXLIX. Search for $t(\overline{t})H$ production in the $H \rightarrow b(\overline{b})$ decay channel with leptonic $t(\overline{t})$ decays in proton-proton collisions at $\sqrt{s}=13$ 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)

CCL. Measurement of nuclear modification factors of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ 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.790, ss.270-293, 2019 (SCI-Expanded)
- CCLI. **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., Eroee J., et al.
PHYSICS LETTERS B, cilt.790, ss.140-166, 2019 (SCI-Expanded)
- CCLII. **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., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.8, 2019 (SCI-Expanded)
- CCLIII. **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., Eroee J., et al.
PHYSICS LETTERS B, cilt.790, ss.509-532, 2019 (SCI-Expanded)
- CCLIV. **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., Eroee J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, 2019 (SCI-Expanded)
- CCLV. **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., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.12, 2019 (SCI-Expanded)
- CCLVI. **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., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)
- CCLVII. **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., Eroee J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCLVIII. **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., Eroee J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.789, ss.19-44, 2019 (SCI-Expanded)
- CCLIX. **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., Eroee J., et al.
PHYSICS LETTERS B, cilt.789, ss.643-665, 2019 (SCI-Expanded)
- CCLX. **Measurements of t(t)over-bar 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., Eroee J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCLXI. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}>=13\text{ TeV}$**

- 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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- CCLXII. **Search for pair production of second-generation leptoquarks 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)
- CCLXIII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXIV. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXV. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root $s=13$ TeV**
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- CCLXVI. **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**
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- CCLXVII. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root $s=13$ TeV**
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- CCLXVIII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CCLXIX. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXX. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
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- CCLXXI. **Event shape variables measured using multijet final states in proton-proton collisions at root $s=13$ TeV**
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- CCLXXII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CCLXXIII. **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., Ero J., et al.
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- CCLXXIV. **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.
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- CCLXXV. **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.
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- CCLXXVI. **Measurement of jet substructure observables in $t(\bar{t})$ 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., Ero J., et al.
PHYSICAL REVIEW D, cilt.98, sa.9, 2018 (SCI-Expanded)
- CCLXXVII. **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., Ero J., Del Valle A. E., et al.
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- CCLXXVIII. **Search for the decay of a Higgs boson in the $\gamma\gamma$ 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., Ero J., et al.
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- CCLXXIX. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCLXXX. **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., Ero J., Del Valle A. E., et al.
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- CCLXXXI. **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.
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- CCLXXXII. **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., Ero J., et al.
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- :CLXXXIII. **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 $\sqrt{s}=13$ TeV** The CMS Collaboration
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.785, ss.462-488, 2018 (SCI-Expanded)
- :CLXXXIV. **Observation of the $Z \rightarrow \psi l^{(+)}l^{(-)}$ Decay in pp Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.14, 2018 (SCI-Expanded)
- CCLXXXV. **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., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- :CLXXXVI. **Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2l2q$ final states at $\sqrt{s}=13$ 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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- CLXXXVII. **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., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.12, 2018 (SCI-Expanded)
- :LXXXVIII. **Search for dark matter produced in association with a Higgs boson decaying to $\gamma\gamma$ or $\tau^{(+)}\tau^{(-)}$ at $\sqrt{s}=13$ TeV**
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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)
- :CLXXXIX. **Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ 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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- CCXC. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at $\sqrt{s_{NN}}=8.16$ 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.121, sa.8, 2018 (SCI-Expanded)
- CCXCI. **Search for beyond the standard model Higgs bosons decaying into a $b(\bar{b})$ pair in pp collisions at $\sqrt{s}=13$ 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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- CCXCII. **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 $\sqrt{s}=13$ 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.8, 2018 (SCI-Expanded)
- CCXCIII. **Search for R-parity violating supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using b jets 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., Eroe J., et al.
PHYSICS LETTERS B, cilt.783, ss.114-139, 2018 (SCI-Expanded)
- CCXCIV. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s(NN)}=5.02$ 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.
PHYSICAL REVIEW LETTERS, cilt.121, sa.6, 2018 (SCI-Expanded)
- CCXCV. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ 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.8, 2018 (SCI-Expanded)
- CCXCVI. **Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ 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.8, 2018 (SCI-Expanded)
- CCXCVII. **Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ 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., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCXCVIII. **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., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.9, 2018 (SCI-Expanded)
- CCXCIX. **Search for new physics in events with two soft oppositely charged leptons 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., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.782, ss.440-467, 2018 (SCI-Expanded)
- CCC. **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., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CCCI. **Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark 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.7, 2018 (SCI-Expanded)
- CCCII. **Electroweak production of two jets in association with a Z boson in proton-proton collisions $\sqrt{s}=13$ 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.78, sa.7, 2018 (SCI-Expanded)
- CCCIII. **Nuclear modification factor of D-0 mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ 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.782, ss.474-496, 2018 (SCI-Expanded)
- CCCIV. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ 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.7, 2018 (SCI-Expanded)

- CCCV. **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., Eroe J., et al.
PHYSICS LETTERS B, cilt.781, ss.244-269, 2018 (SCI-Expanded)
- CCCVI. **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., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI-Expanded)
- CCCVII. **Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 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 C, cilt.97, sa.6, 2018 (SCI-Expanded)
- CCCVIII. **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**
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, 2018 (SCI-Expanded)
- CCCIX. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum 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.6, 2018 (SCI-Expanded)
- CCCX. **Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**
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.6, 2018 (SCI-Expanded)
- CCCXI. **Observation of (tt)over-barH Production**
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.120, sa.23, 2018 (SCI-Expanded)
- CCCXII. **Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from 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.
PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- CCCXIII. **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., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CCCXIV. **Search for t(t)over-barH production in the all-jet final state 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., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXV. **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., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)

CCCXVI. **Search for high-mass resonances 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., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)

CCCXVII. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb 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.

PHYSICAL REVIEW LETTERS, cilt.120, sa.20, 2018 (SCI-Expanded)

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

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.780, ss.384-409, 2018 (SCI-Expanded)

CCCXIX. **Evidence for the Higgs boson decay to a bottom quark-antiquark pair**

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

PHYSICS LETTERS B, cilt.780, ss.501-532, 2018 (SCI-Expanded)

CCCXX. **Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8 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 LETTERS, cilt.120, sa.20, 2018 (SCI-Expanded)

CCCXXI. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**

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 C, cilt.97, sa.4, 2018 (SCI-Expanded)

CCCXXII. **Combination of inclusive and differential t(t)over-bar charge asymmetry measurements using ATLAS and CMS data at root S=7 and 8 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2018 (SCI-Expanded)

CCCXXIII. **Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector**

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

PHYSICS LETTERS B, cilt.779, ss.283-316, 2018 (SCI-Expanded)

CCCXXIV. **Suppression of Excited gamma States Relative to the Ground State 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.

PHYSICAL REVIEW LETTERS, cilt.120, sa.14, 2018 (SCI-Expanded)

CCCXXV. **Measurement of the associated production of a single top quark and a Z boson 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., Ero J., et al.

- PHYSICS LETTERS B, cilt.779, ss.358-384, 2018 (SCI-Expanded)
- CCCXXVI. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet 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., Ero J., et al.
PHYSICAL REVIEW D, cilt.97, sa.7, 2018 (SCI-Expanded)
- CCCXXVII. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.779, ss.166-190, 2018 (SCI-Expanded)
- CCCXXVIII. **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**
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.3, 2018 (SCI-Expanded)
- CCCXXIX. **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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- CCCXXX. **Measurement of the inclusive t(t)-bar cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton**
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- CCCXXXI. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**
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- CCCXXXII. **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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- CCCXXXIII. **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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- CCCXXXIV. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
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- CCCXXXV. **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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- CCCXXXVI. **Search for low mass vector resonances decaying into quark-antiquark pairs 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., Ero J., et al.

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- CCXXXVII. **Search for resonant and nonresonant Higgs boson pair production in the $b(b)\overline{b}l\nu l\nu$ final state in proton-proton collisions at root $s=13$ TeV**

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- CCXXXVIII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
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- CCXXXIX. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**

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- CCCXL. **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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- CCCXLI. **Measurement of charged pion, kaon, and proton production 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., Ero J., Flechl M., et al.

PHYSICAL REVIEW D, cilt.96, sa.11, 2017 (SCI-Expanded)

- CCCXLII. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton 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., Brondolin E., Dragicevic M., Ero J., et al.

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- CCCXLIII. **Search for dark matter produced in association with heavy-flavor quark pairs 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., Ero J., Flechl M., et al.

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- CCCXLIV. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**

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- CCCXLV. **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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- CCCXLVI. **Measurements of the associated production of a Z boson and b jets in pp collisions at root $s=8$ TeV**

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- EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.11, 2017 (SCI-Expanded)
- CCCXLVII. **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.
PHYSICS LETTERS B, cilt.774, ss.279-307, 2017 (SCI-Expanded)
- :CCXLVIII. **Search for associated production of dark matter with a Higgs boson decaying to b(b)over-bar or gamma gamma at root s=13 TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2017 (SCI-Expanded)
- CCCXLIX. **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)=8 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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- CCCL. **Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLI. **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**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.15, 2017 (SCI-Expanded)
- CCCLII. **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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- CCCLIII. **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**
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- CCCLIV. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13TeV**
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- CCCLV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.9, 2017 (SCI-Expanded)
- CCCLVI. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root s=13TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLVII. **Measurement of the top quark mass in the dileptonic $t(\bar{t})$ 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., Eroo J., et al.
PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)
- CCCLVIII. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.8, 2017 (SCI-Expanded)
- CCCLIX. **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., Eroo J., et al.
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- CCCLX. **Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV**
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- CCCLXI. **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)
- CCCLXII. **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., Eroo J., et al.
PHYSICS LETTERS B, cilt.768, ss.137-162, 2017 (SCI-Expanded)
- CCCLXIII. **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)
- CCCLXIV. **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., Eroo J., et al.
PHYSICS LETTERS B, cilt.767, ss.147-170, 2017 (SCI-Expanded)
- CCCLXV. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at $\sqrt{s}=8$ TeV**
Khachtryan V., SIRUNYAN A. M., Wolfgang A., Tumasyan A., ASILAR E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, ss.1-20, 2017 (SCI-Expanded)
- CCCLXVI. **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., Eroo J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2017 (SCI-Expanded)
- CCCLXVII. **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.,

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PHYSICAL REVIEW LETTERS, cilt.118, sa.12, ss.1-20, 2017 (SCI-Expanded)
- :CCLXVIII. **Measurement of the $t(\bar{t})$ over-bar 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.
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- CCCLXIX. **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)
- CCCLXX. **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)
- CCCLXXI. **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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- CCCLXXII. **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 Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
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- :CCLXXIII. **Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s}=7$ and 8 TeV**
Chatrchyan S., Khachtryan 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)
- :CCLXXIV. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV**
Khachtryan V., Albert S., Tumasyan A., Wolfgang A., Ece A., Bergauer T., Brandstetter J., Brondolin E., DUMANOĞLU İ., POLATÖZ A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, ss.1-20, 2016 (SCI-Expanded)
- CCCLXXV. **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., Eroe J., et al.
PHYSICAL REVIEW D, cilt.94, sa.5, 2016 (SCI-Expanded)
- :CCLXXVI. **Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ 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.
Journal of High Energy Physics, cilt.2016, sa.8, 2016 (SCI-Expanded)
- CCLXXVII. **Combined search for anomalous pseudoscalar HW couplings in $VH(H \rightarrow b\bar{b})$ production and $H \rightarrow VV$ decay**
Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., Friedl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.759, ss.672-696, 2016 (SCI-Expanded)
- :CLXXVIII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)
- :CCLXXIX. **Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ 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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- CCCLXXX. **Measurement of the ratio $B(B\text{-}s(0) \rightarrow J/\psi f(0)(980))/B(B\text{-}s(0) \rightarrow J/\psi \phi(1020))$ in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- :CCLXXXI. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
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.753, ss.363-388, 2016 (SCI-Expanded)
- CCLXXXII. **Search for $W^+ \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asilar E., Bergauer T., Brondolin E., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, ss.1-42, 2016 (SCI-Expanded)
- :CLXXXIII. **Search for a Higgs boson decaying into $\gamma\gamma \rightarrow ll$ with low dilepton mass in pp 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., Eroe J., et al.
PHYSICS LETTERS B, cilt.753, ss.341-362, 2016 (SCI-Expanded)
- :CLXXXIV. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV**
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- CCLXXXV. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
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- :CLXXXVI. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s}=8$ TeV**
KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
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- CLXXXVII. **Search for a charged Higgs boson in pp collisions at $\sqrt{s}=8$ TeV**
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PHYSICS LETTERS B, cilt.749, ss.14-34, 2015 (SCI-Expanded)
- :CLXXXIX. **Limits on the Higgs boson lifetime and width from its decay to four charged leptons**
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- CCCXC. **Search for the standard model Higgs boson produced through vector boson fusion and decaying to**

b(b)over-bar

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

PHYSICAL REVIEW D, cilt.92, sa.3, 2015 (SCI-Expanded)

CCCXCI. Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.

PHYSICAL REVIEW D, cilt.92, sa.1, 2015 (SCI-Expanded)

CCCXCII. Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure

The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2015 (SCI-Expanded)

CCCXCIII. Combined Measurement of the Higgs Boson Mass in pp Collisions at root s=7 and 8 TeV with the ATLAS and CMS Experiments

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

PHYSICAL REVIEW LETTERS, cilt.114, sa.19, 2015 (SCI-Expanded)

CCCXCIV. Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV

Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, ss.1-50, 2015 (SCI-Expanded)

CCCXCV. Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at root s = 8 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

PHYSICAL REVIEW D, cilt.91, sa.9, 2015 (SCI-Expanded)

CCCXCVI. Search for a standard model-like Higgs boson in the mu(+)mu(-) and e(+)e(-) decay channels at the LHC

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

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CCCXCVII. Measurement of the Z gamma production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings

Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.

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:CCXCVIII. Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at root s=8 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2015 (SCI-Expanded)

CCCXCIX. Measurements of jet multiplicity and differential production cross sections of Z plus jets events in proton-proton collisions at root s=7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

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CD. Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV

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- CDXXIV. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
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- CDXXXIV. **Interpretation of searches for supersymmetry with simplified models**

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- CDXLVI. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
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- CDLV. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**
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- CDLVI. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at root s 7 TeV**
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- CDLVII. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN=2.76 TeV**
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- CDLXI. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
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- CDLXIII. **Search for a W ' boson decaying to a bottom quark and a top quark in pp collisions at root s=7 TeV**
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