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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

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Jüri Üyelikleri

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

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. $KS0$ and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)

II. Measurement of the production cross section of a Higgs boson with large transverse momentum in

its decays to a pair of τ leptons in proton-proton collisions at $s=13\text{TeV}$

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III. Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions

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IV. Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13\text{ TeV}$

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V. Performance of CMS muon reconstruction from proton-proton to heavy ion collisions

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VI. Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented

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VII. Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13\text{ TeV}$

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VIII. 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.

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IX. Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13\text{TeV}$

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X. Evidence for tWZ production in proton-proton collisions at $s=13\text{ TeV}$ in multilepton final states

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XI. Decoherence in neutrino oscillation at the ESSnuSB experiment

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XII. Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented

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XIII. Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented

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- XIV. **Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**
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- XV. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
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- XVI. **Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $s=13\text{TeV}$**
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- XVIII. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark ff pair in multilepton events at $\sqrt{s}=13\text{ TeV}$**
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- XIX. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13\text{ TeV}$**
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- XX. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Reports on Progress in Physics, cilt.87, sa.7, 2024 (SCI-Expanded)
- XXI. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
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- XXII. **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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- XXIII. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXIV. **Search for long-lived particles using displaced vertices and missing transverse momentum in**

proton-proton collisions at Formula Presented

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- XXV. **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.
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- XXVI. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
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- XXVII. **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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- XXVIII. **Study of nonstandard interactions mediated by a scalar field at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blenow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
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- XXIX. **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)
- XXX. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXXI. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXII. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at (Formula presented.)**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)

- XXXV. **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)
- XXXVI. **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.
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- XXXVII. **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.
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- XXXVIII. **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.
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- XXXIX. **Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at Formula Presented**
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- XL. **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)
- XLI. **Search for dark matter particles in $W+W-$ events with transverse momentum imbalance in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- XLII. **Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton**
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- XLIII. **Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $s_{NN}=5.02$ TeV**
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- XLIV. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ TeV**
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- XLV. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet 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.
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- XLVI. Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- XLVII. Higher-order moments of the elliptic flow distribution in PbPb collisions at $s_{NN} = 5.02$ TeV**
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- XLVIII. Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**
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- XLIX. Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- L. Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- LI. Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**
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- LII. Luminosity determination using Z boson production at the CMS experiment**
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- LIII. Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $s_{NN} = 5.02$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- LIV. Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LV. Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)**
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- LVI. Observation of triple J/psi meson production in proton-proton collisions**
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- LVII. Search for new particles in an extended Higgs sector with four b quarks in the final state at root $s=13$ TeV**
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- LVIII. Nuclear modification of Y states in pPb collisions at root $S\text{-NN}=5.02$ TeV**
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- XC. **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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- C. **Search for a heavy resonance decaying to a top quark and a W boson at root $s=13$ TeV in the fully hadronic final state**
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- CVI. **Measurements of the $pp \rightarrow W^{+/-} \gamma \gamma$ and $pp \rightarrow Z \gamma \gamma$ cross sections at root $s=13$ TeV and limits on anomalous quartic gauge couplings**
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- CIX. **Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at root $S_{NN}=5.02$ TeV**
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- CX. **First measurement of the cross section for top quark pair production with additional charm jets**

using dileptonic final states in pp collisions at root s=13 TeV

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- CXV. **Hard color-singlet exchange in dijet events in proton-proton collisions at root s=13 TeV**
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- CXVI. **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at root s=13 TeV**
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- CXVII. **Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at root s=13 TeV**
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- CXXII. **Observation of a New Excited Beauty Strange Baryon Decaying to Xi(-)(b)pi(+)(b)pi(-)**
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- CXXIII. **Measurements of the differential cross sections of the production of Z plus jets and gamma plus jets and of Z boson emission collinear with a jet in pp collisions at root s=13 TeV**
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- CXXIV. **In-medium modification of dijets in PbPb collisions at root s(NN)=5.02 TeV**
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- CXXV. **Measurement of prompt D-0 and D-0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at root S-NN=5.02 TeV**
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- CXXX. **The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype**
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- CXXXII. **Measurement of differential t(t)over-bar production cross sections using top quarks at large transverse momenta in pp collisions at root s=13 TeV**
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- CXXXIII. **Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies**

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- CXXXIX. **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. **Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at $\sqrt{s}=13$ TeV**
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- CXLIII. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CXLIX. **Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $\sqrt{s}=13$ TeV**
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- CL. **Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CLIV. **Search for a light charged Higgs boson in the $H \rightarrow \tau^+ \tau^- \rightarrow cs$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CLV. **Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

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CLVIII. **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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CLIX. **Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum**

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CLX. **Pileup mitigation at CMS in 13 TeV data**

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CLXI. **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**

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

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CLXII. **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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CLXIII. **Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**

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CLXIV. **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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CLXV. **Search for resonant pair production of Higgs bosons in the $b\bar{b}Z\bar{Z}$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CLXVI. **Measurement of $t(\bar{t})$ over-bar normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions**
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- CLXVII. **Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s}=13$ TeV**
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- CLXVIII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
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- CLXX. **Measurement of the cross section for $t(\bar{t})$ over-bar production with additional jets and b jets in pp collisions at $\sqrt{s}=13$ TeV**
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- CLXXII. **Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- CLXXIII. **Determination of the strong coupling constant $\alpha(S)(m(Z))$ from measurements of inclusive W-
+/- and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV**
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- CLXXV. **Strange hadron production in pp and pPb 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., Ero J., Del Valle A. E., et al.
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- CLXXVI. **A measurement of the Higgs boson mass in the diphoton decay channel**
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- CLXXVII. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ and constraints on anomalous quartic couplings**
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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- CLXXVIII. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s}=13\text{TeV}$**
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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- CLXXIX. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CLXXX. **Measurement of differential cross sections and charge ratios for t-channel single top quark production 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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- CLXXXI. **Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=13\text{TeV}$**
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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- CLXXXII. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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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- CLXXXIII. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CLXXXIV. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
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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- CLXXXV. **Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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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- CLXXXVI. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi^+\pi^-$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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.
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- CLXXXVII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

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.4, 2020 (SCI-Expanded)

:LXXXVIII. **Production of $\Lambda^+(c)$ baryons in proton-proton and lead-lead collisions at root $S_{NN}=5.02$ 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.

PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)

CLXXXIX. **Measurement of properties of $B(s)(0)s \rightarrow \mu^+\mu^-$ decays and search for $B^0 \rightarrow \mu^+\mu^-$ with the CMS experiment**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2020 (SCI-Expanded)

CXC. **Constraints on the $\chi(c1)$ versus $\chi(c2)$ Polarizations in Proton-Proton Collisions at root $s=8$ 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.

PHYSICAL REVIEW LETTERS, cilt.124, sa.16, 2020 (SCI-Expanded)

CXCI. **Measurement of the $t(\bar{t})$ over $b(\bar{b})$ production cross section in the all-jet final state in pp collisions at root $s=13$ TeV**

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. **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.

JOURNAL OF INSTRUMENTATION, cilt.15, sa.4, 2020 (SCI-Expanded)

CXCIII. **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**

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.3, 2020 (SCI-Expanded)

CXCIV. **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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CXCV. **Search for physics beyond the standard model in multilepton final states 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.

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

CXCVI. **Observation of the $\Lambda^0(b) \rightarrow J/\psi \Lambda^0$ phi decay 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.802, 2020 (SCI-Expanded)

CXCVII. **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)

- CXCVIII. **Bose-Einstein correlations of charged hadrons 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.
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- CXCIX. **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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- CC. **Search for new neutral Higgs bosons through the $H \rightarrow Z A \rightarrow l^+ l^- b \bar{b}$ process in pp collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCI. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCII. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCIII. **Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.801, 2020 (SCI-Expanded)
- CCIV. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
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- CCV. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCVI. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.2, 2020 (SCI-Expanded)
- CCVII. **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 $\sqrt{s}=13$ 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.124, sa.4, 2020 (SCI-Expanded)
- CCVIII. **Observation of nuclear modifications in $W^{+/-}$ boson production in pPb collisions at $\sqrt{s_{NN}}=2.76$ TeV**

$s(\text{NN})=8.16$ 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.

PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)

CCIX. **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 $s = 13$ TeV**

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

PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)

CCX. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root $s = 13$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2020 (SCI-Expanded)

CCXI. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)

CCXII. **Evidence for WW production from double-parton interactions in proton-proton collisions at root $s = 13$ TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)

CCXIII. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root $s = 13$ TeV**

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

PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)

CCXIV. **Probing the chiral magnetic wave in pPb and PbPb collisions at root $S\text{-NN} = 5.02$ TeV using charge-dependent azimuthal anisotropies**

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 C, cilt.100, sa.6, 2019 (SCI-Expanded)

CCXV. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at root $s = 13$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2019 (SCI-Expanded)

CCXVI. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root $S\text{-NN} = 5.44$ TeV**

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

PHYSICS LETTERS B, cilt.799, 2019 (SCI-Expanded)

CCXVII. **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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2019 (SCI-Expanded)

CCXVIII. **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.

- PHYSICAL REVIEW LETTERS, cilt.123, sa.23, 2019 (SCI-Expanded)
- CCXXIX. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXX. **Study of the $B^+ \rightarrow J/\psi(\Lambda)\bar{b}\nu$ 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)
- CCXXI. **Search for long-lived particles using delayed photons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXII. **Measurements of differential Z boson production cross sections in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2019 (SCI-Expanded)
- CCXXIII. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.123, sa.24, 2019 (SCI-Expanded)
- CCXXIV. **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)
- CCXXV. **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)
- CCXXVI. **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)
- CCXXVII. **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)
- CCXXVIII. **Search for supersymmetry using Higgs boson to diphoton decays at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2019 (SCI-Expanded)
- CCXXIX. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXX. **Measurement of the top quark Yukawa coupling from $t(\bar{t})$ kinematic distributions in the**

lepton plus jets final state in proton-proton collisions at root s=13 TeV

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

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

CCXXXI. 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)

CCXXXII. Charged-particle angular correlations 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., Eroe J., Del Valle A. E., et al.

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

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

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

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

CCXXXIV. Measurement of B-s(0) meson production in pp and PbPb collisions at root S-NN=5.02 TeV

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

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

CCXXXV. 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)

CCXXXVI. Search for charged Higgs bosons in the H-+/- -> tau(+/-)nu(tau) decay channel in proton-proton collisions at s=13 TeV

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

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

CCXXXVII. 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)

:CXXXVIII. 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)

CCXXXIX. 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)

CCXL. 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)
- CCXLI. **Search for a low-mass $\tau(-)\tau(+)$ resonance in association with 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., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2019 (SCI-Expanded)
- CCXLII. **Search for associated production of a Higgs boson and a single top 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., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CCXLIII. **Combined measurements of Higgs boson couplings 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCXLIV. **Combinations of single-top-quark production cross-section measurements and vertical bar $f(LV)V(tb)$ vertical bar determinations at $\sqrt{s}=7$ 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)
- CCXLV. **Search for an L-mu - L-tau gauge boson using $Z \rightarrow 4 \mu$ events 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.
PHYSICS LETTERS B, cilt.792, ss.345-368, 2019 (SCI-Expanded)
- CCXLVI. **Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ 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)
- CCXLVII. **Search for a W' boson decaying to a tau lepton and a neutrino 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.792, ss.107-131, 2019 (SCI-Expanded)
- CCXLVIII. **Measurement of the energy density as a function of pseudorapidity 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCXLIX. **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)
- CC. **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)
- CCLI. **Search for nonresonant Higgs boson pair production in the $b(\bar{b})\gamma\gamma(\bar{b})\gamma$ 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)
- CCLII. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLIII. **Measurements of properties of the Higgs boson decaying to a Wboson pair in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.791, ss.96-129, 2019 (SCI-Expanded)
- CCLIV. **Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLV. **Measurement of nuclear modification factors of gamma(1S), gamma(2S), and gamma(3S) mesons in PbPb collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.270-293, 2019 (SCI-Expanded)
- CCLVI. **Measurement of prompt psi(2S) production cross sections in proton-lead and proton-proton collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.509-532, 2019 (SCI-Expanded)
- CCLVII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, 2019 (SCI-Expanded)
- CCLVIII. **Search for t(t)over-barH production in the H -> b(b)over-bar decay channel with leptonic t(t)over-bar decays in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLIX. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.12, 2019 (SCI-Expanded)
- CCLX. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.790, ss.140-166, 2019 (SCI-Expanded)
- CCLXI. **Inclusive search for supersymmetry in pp collisions at root s=13 TeV using razor variables and boosted object identification in zero and one lepton final states**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J.,

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JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXII. **Search for Narrow H gamma Resonances in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.122, sa.8, 2019 (SCI-Expanded)
- CCLXIII. **Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CCLXIV. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXV. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCLXVI. **Search for pair production of second-generation leptoquarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXVII. **Search for new particles decaying to a jet and an emerging jet**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
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- CCLXVIII. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXIX. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXX. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**
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PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)
- CCLXXI. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXXII. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

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- CCLXXIII. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXXIV. **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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- CCLXXV. **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**
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- CCLXXVI. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**
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- CCLXXVII. **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.
PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)
- :CLXXVIII. **Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2018 (SCI-Expanded)
- CCLXXIX. **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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- CCLXXX. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV**
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PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)
- CCLXXXI. **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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- CCLXXXII. **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., Eroe J., et al.
PHYSICAL REVIEW D, cilt.98, sa.9, 2018 (SCI-Expanded)
- :CLXXXIII. **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., Eroee J., et al.
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- :CLXXXIV. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
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- CCLXXXV. **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., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.22, 2018 (SCI-Expanded)
- :CLXXXVI. **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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- CLXXXVII. **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., Eroee J., et al.
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- :LXXXVIII. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- :CLXXXIX. **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., Eroee J., Del Valle A. E., et al.
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- CCXC. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**
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- CCXCI. **Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV**
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- CCXCII. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two bquarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS Collaboration**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.785, ss.462-488, 2018 (SCI-Expanded)
- CCXCIII. **Precision measurement of the structure of the CMS inner tracking system using nuclear interactions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- CCXCIV. **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., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.14, 2018 (SCI-Expanded)
- CCXCV. **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., Eroe J., Del Valle A. E., et al.
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- CCXCVI. **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., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.12, 2018 (SCI-Expanded)
- CCXCVII. **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., Eroe J., et al.
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- CCXCVIII. **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., Eroe J., et al.
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- CCXCIX. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCC. **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)
- CCCI. **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)
- CCCII. **Search for R-parity violating supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.783, ss.114-139, 2018 (SCI-Expanded)
- CCCIII. **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., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.8, 2018 (SCI-Expanded)
- CCCIV. **Search for beyond the standard model Higgs bosons decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV**
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- CCCV. **Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCCVI. **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCCVII. **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.
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- CCCVIII. **Electroweak production of two jets in association with a Z boson in proton-proton collisions root s =13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.7, 2018 (SCI-Expanded)
- CCCIX. **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.
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- CCCX. **Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCCXI. **Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.782, ss.440-467, 2018 (SCI-Expanded)
- CCCXII. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CCCXIII. **Nuclear modification factor of D-0 mesons in PbPb collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.782, ss.474-496, 2018 (SCI-Expanded)
- CCCXIV. **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)
- CCCXV. **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

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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., Ero J., et al.
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- CCCXVII. **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., Ero J., et al.
PHYSICAL REVIEW C, cilt.97, sa.6, 2018 (SCI-Expanded)
- CCCXVIII. **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., Ero J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI-Expanded)
- CCCXIX. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXX. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXXI. **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., Ero J., et al.
PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- CCCXXII. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXXIII. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CCCXXIV. **Observation of (tt)over-barH Production**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.23, 2018 (SCI-Expanded)
- CCCXXV. **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., Ero J., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CCCXXVI. **Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8**

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

CCCXXVII. **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)

:CCXXVIII. **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)

CCCXXIX. **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)

CCCXXX. **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)

CCCXXXI. **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)

CCCXXXII. **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)

:CCXXXIII. **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)

:CCXXXIV. **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., Abidinov 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)

CCCXXXV. **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)

:CCXXXVI. **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)
- CCXXXVII. **Measurement of the inclusive $t(\bar{t})$ over-bar cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2018 (SCI-Expanded)
- CCXXXVIII. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2018 (SCI-Expanded)
- CCXXXIX. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons 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., Eroee J., et al.
PHYSICS LETTERS B, cilt.778, ss.101-127, 2018 (SCI-Expanded)
- CCCXL. **Comparing transverse momentum balance of b jet pairs in pp and 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2018 (SCI-Expanded)
- CCCXLI. **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**
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.777, ss.39-63, 2018 (SCI-Expanded)
- CCCXLII. **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 $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.8, 2018 (SCI-Expanded)
- CCCXLIII. **Search for supersymmetry in events with at least three electrons or muons, jets, 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2018 (SCI-Expanded)
- CCCXLIV. **Inclusive Search for a Highly Boosted Higgs Boson Decaying 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., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.7, 2018 (SCI-Expanded)
- CCCXLV. **Search for resonant and nonresonant Higgs boson pair production in the $b(\bar{b})\ell\nu\ell\nu$ 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2018 (SCI-Expanded)
- CCCXLVI. **Search for low mass vector resonances decaying into quark-antiquark pairs 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2018 (SCI-Expanded)
- CCCXLVII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**

- Chatrchyan S., 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.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- :CCXLVIII. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**
Sirunyan A. M., Collaboration C. M. S., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
PHYSICS LETTERS B, cilt.775, ss.1-24, 2017 (SCI-Expanded)
- CCCXLIX. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.22, 2017 (SCI-Expanded)
- CCCL. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.775, ss.315-337, 2017 (SCI-Expanded)
- CCCLI. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, cilt.12, 2017 (SCI-Expanded)
- CCCLII. **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., Eroe J., Flechl M., et al.
PHYSICAL REVIEW D, cilt.96, sa.11, 2017 (SCI-Expanded)
- CCCLIII. **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., Eroe J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.12, 2017 (SCI-Expanded)
- CCCLIV. **Measurements of the associated production of a Z boson and b jets in pp 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.11, 2017 (SCI-Expanded)
- CCCLV. **Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.11, 2017 (SCI-Expanded)
- CCCLVI. **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)
- CCCLVII. **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**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2017 (SCI-Expanded)
- CCCLVIII. **Search for Higgs boson pair production in the $b\bar{b}$ tau state in proton-proton collisions at $\sqrt{s}=8$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICAL REVIEW D, cilt.96, sa.7, 2017 (SCI-Expanded)
- CCCLIX. **Search for light bosons in decays of the 125 GeV Higgs boson 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., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2017 (SCI-Expanded)
- CCCLX. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.14, 2017 (SCI-Expanded)
- CCCLXI. **Search for new phenomena with the $M-T_2$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Johnson A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.10, 2017 (SCI-Expanded)
- CCCLXII. **Search for Supersymmetry in pp Collisions at $\sqrt{s}=13$ TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.15, 2017 (SCI-Expanded)
- CCCLXIII. **Measurement of the $B\rightarrow\tau\nu$ Meson Nuclear Modification Factor in Pb-Pb 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., Eroe J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.15, 2017 (SCI-Expanded)
- CCCLXIV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio 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)
- CCCLXV. **Search for new phenomena with multiple charged leptons in proton-proton 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.9, 2017 (SCI-Expanded)
- CCCLXVI. **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., Eroe J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.8, 2017 (SCI-Expanded)
- CCCLXVII. **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., Eroe J., et al.
PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)

- :CCLXVIII. **Search for heavy gauge W' bosons in events with an energetic lepton and large missing transverse momentum at root $s=13\text{TeV}$**
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.770, ss.278-301, 2017 (SCI-Expanded)
- CCCLXIX. **Measurement of the mass difference between top quark and antiquark in pp collisions at root $s=8\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.770, ss.50-71, 2017 (SCI-Expanded)
- CCCLXX. **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)
- CCCLXXI. **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)
- CCCLXXII. **Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at root(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)
- :CCLXXIII. **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)
- :CCLXXIV. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at root $s=8\text{TeV}$**
Khachatryan 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)
- CCCLXXV. **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)
- :CCLXXVI. **Measurement of the WZ production cross section in pp collisions at root $s=13\text{TeV}$**
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.766, ss.268-290, 2017 (SCI-Expanded)
- CCLXXVII. **Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**
Khachatryan V., Tumasyan A., SIRUNYAN A. M., Wolfgang A., Asiler E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
PHYSICAL REVIEW LETTERS, cilt.118, sa.12, ss.1-20, 2017 (SCI-Expanded)
- :CLXXVIII. **Measurement of the $t(\bar{t})$ production cross section using events in the $e\mu$ final state in pp collisions at root $s=13\text{TeV}$**
Khachatryan V., SIRUNYAN A. M., Tumasyan A., Wolfgang A., Asiler E., BRANDSTETTER J., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.3, ss.1-20, 2017 (SCI-Expanded)

- CCCLXXIX. **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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2016 (SCI-Expanded)
- CCCLXXX. **Search for lepton flavour violating decays of the Higgs boson to e tau and e mu 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., Ero J., et al.
PHYSICS LETTERS B, cilt.763, ss.472-500, 2016 (SCI-Expanded)
- CCCLXXXI. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root 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)
- CCLXXXII. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, cilt.11, 2016 (SCI-Expanded)
- CLXXXIII. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, cilt.94, sa.5, 2016 (SCI-Expanded)
- CLXXXIV. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root 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)
- CCLXXXV. **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)
- CLXXXVI. **Combined search for anomalous pseudoscalar HW couplings in VH(H -> b(b)over-bar) production and H -> 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)
- CLXXXVII. **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., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)
- LXXXVIII. **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.
Journal of High Energy Physics, cilt.2016, sa.6, 2016 (SCI-Expanded)
- CLXXXIX. **Measurement of the ratio $B(B\text{-}s(0) \text{-} > J/\psi f(0)(980))/B(B\text{-}s(0) \text{-} > J/\psi \phi(1020))$ in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Friedl M., Fruhwirth R.,

- Ghete V. M., et al.
PHYSICS LETTERS B, cilt.756, ss.84-102, 2016 (SCI-Expanded)
- CCCXC. **Search for $W^- \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler 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)
- CCCXCI. **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., Eroo J., et al.
PHYSICS LETTERS B, cilt.753, ss.341-362, 2016 (SCI-Expanded)
- CCCXCII. **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., Eroo J., et al.
PHYSICS LETTERS B, cilt.753, ss.363-388, 2016 (SCI-Expanded)
- CCCXCIII. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel 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., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.1, 2016 (SCI-Expanded)
- CCCXCIV. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
PHYSICS LETTERS B, cilt.751, ss.143-163, 2015 (SCI-Expanded)
- CCCXCV. **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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- CCCXCVI. **Search for a charged Higgs boson in pp collisions at $\sqrt{s}=8$ TeV**
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- DII. Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root s=7 TeV**
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- DIV. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at root s=7 TeV**
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- DV. Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**
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- DVI. Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at root s=7 TeV**
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- DVII. Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV**
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- DIX. Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root s=7 TeV**
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- DX. Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy**
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- DXI. Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- DXII. Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root S-NN=2.76 TeV**
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- DXIII. Search for heavy long-lived charged particles in pp collisions at root s=7 TeV**
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- DXIV. Search for a light charged Higgs boson in top quark decays in pp collisions at root s=7 TeV**
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- DXV. Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXVI. Measurement of the mass difference between top and antitop quarks**
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- DXVII. Measurement of the $t(\bar{t})$ production cross section in pp collisions at root s=7 TeV in dilepton final states containing a tau**
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- DXVIII. Observation of a New $\Xi(b)$ Baryon**
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- DXIX. Search for neutral Higgs bosons decaying to tau pairs in pp collisions at root s=7 TeV**
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- DXX. Search for large extra dimensions in dimuon and dielectron events in pp collisions at root s=7 TeV**
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- DXXI. Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at root s(NN)=2.76 TeV**
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- DXXII. Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXIII. Search for a Higgs boson in the decay channel $H \rightarrow ZZ(*) \rightarrow q(\bar{q})l(\bar{l})$ in pp collisions at root s=7 TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- DXXIV. **Search for the standard model Higgs boson decaying into two photons in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXV. **Measurement of isolated photon production in pp and PbPb collisions at root s(NN)=2.76 TeV**
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- DXXVI. **Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXVII. **Study of high-p(T) charged particle suppression in PbPb compared to pp collisions at root s(NN)=2.76 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXVIII. **Combined results of searches for the standard model Higgs boson in pp collisions at root s=7 TeV**
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- DXXIX. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXX. **Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow l(+)l(-)\tau(+)\tau(-)$ decay channel in pp collisions at root s=7 TeV**
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- DXXXI. **Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ channel in pp collisions at root s=7 TeV**
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- DXXXII. **Search for the standard model Higgs boson decaying to $W+W-$ in the fully leptonic final state in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXXXIII. **Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- DXXXIV. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron**

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PHYSICAL REVIEW LETTERS, cilt.108, sa.11, 2012 (SCI-Expanded)

DXXXV. Exclusive $\gamma\gamma \rightarrow +\mu\mu$ - production in proton-proton collisions at $\sqrt{s} = 7$ TeV

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Journal of High Energy Physics, cilt.2012, sa.1, 2012 (SCI-Expanded)

DXXXVI. Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s}=7$ TeV

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DXXXVII. J/psi and psi(2S) production in pp collisions at $\sqrt{s}=7$ TeV

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DXXXVIII. Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s}=7$ TeV

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DXXXIX. Performance of tau-lepton reconstruction and identification in CMS

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DXL. Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV

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DXLI. Search for a Vectorlike Quark with Charge 2/3 in t plus Z Events from pp Collisions at $\sqrt{s} = 7$ TeV

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DXLII. Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC

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DXLIII. Search for light resonances decaying into pairs of muons as a signal of new physics

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DXLIV. Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy

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DXLV. Measurement of the $t(\bar{t})$ production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification

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DXLVI. Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at root s=7 TeV

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DXLVII. Determination of jet energy calibration and transverse momentum resolution in CMS

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DXLVIII. Search for B-s(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) Decays in pp Collisions at root s=7 TeV

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DXLIX. Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV

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DL. A search for excited leptons in pp collisions at root s=7 TeV

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DLII. Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV

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DLIII. Measurement of $B\bar{B}$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV

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DLIV. Search for physics beyond the standard model using multilepton signatures in pp collisions at root s=7 TeV

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DLV. Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV

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DLVI. Measurement of the B-s(0) Production Cross Section with B-s(0) -> J/psi phi Decays in pp Collisions at root s=7 TeV

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DLVII. Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV

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- DLVIII. **Measurement of charm production in neutrino charged-current interactions**
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- DLX. **Search for Three-Jet Resonances in pp Collisions at root s=7 TeV**
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- DLXI. **Measurement of the t-Channel Single Top Quark Production Cross Section in pp Collisions at root s=7 TeV**
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- DLXII. **Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at root s=7 TeV**
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- DLXIII. **Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=2.76 TeV**
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- DLXIV. **Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**
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- DLXXI. **Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at root s=7 TeV**
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- DLXXIII. **Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC**
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- DLXXIV. **Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at root s=7 TeV**
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- DLXXV. **Search for Supersymmetry in pp Collisions at root s=7 TeV in Events with Two Photons and Missing Transverse Energy**
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- DLXXVI. **Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at root s=7 TeV**
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- DLXXVII. **Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at root s=7 TeV**
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- DLXXVIII. **Strange particle production in pp collisions at root s=0.9 and 7 TeV**
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- DLXXX. **Measurement of Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV**
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- DLXXXI. **Measurement of $W+W^-$ production and search for the Higgs boson in pp collisions at root $s=7$ TeV**
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- DLXXXII. **Search for resonances in the dilepton mass distribution in pp collisions at root $s=7$ TeV**
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- DLXXXIII. **Study of Z Boson Production in PbPb Collisions at root $s(NN)=2.76$ TeV**
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- DLXXXIV. **Search for large extra dimensions in the diphoton final state at the Large Hadron Collider**
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- DLXXXV. **Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**
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- DLXXXVI. **Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at root $s=7$ TeV**
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- DLXXXVII. **Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at root $s=7$ TeV**
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- DLXXXVIII. **Dijet Azimuthal Decorrelations in pp Collisions at root $s=7$ TeV**
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- DXCI. **Search for heavy stable charged particles in pp collisions at root $s=7$ TeV**
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- DXCIV. First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- DXCV. Search for Stopped Gluinos in pp Collisions at $\sqrt{s}=7$ TeV**
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- DXCVI. Charged particle multiplicities in pp interactions at $\sqrt{s}=0.9, 2.36,$ and 7 TeV**
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- DXCVII. Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV The CMS collaboration**
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- DC. CMS tracking performance results from early LHC operation**
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- DCI. First measurement of the underlying event activity at the LHC with $\sqrt{s}=0.9$ TeV**
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- DCII. Search for Dijet Resonances in 7 TeV pp Collisions at CMS**
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- DCIII. Measurements of forward proton production with incident protons and charged pions on nuclear targets at the CERN Proton Synchrotron**
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DCV. Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s}=7$ TeV

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

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

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JOURNAL OF INSTRUMENTATION, cilt.5, 2010 (SCI-Expanded)

DCIX. Alignment of the CMS muon system with cosmic-ray and beam-halo muons

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DCX. Commissioning of the CMS experiment and the cosmic run at four tesla

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DCXI. Performance of CMS muon reconstruction in cosmic-ray events

Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.

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

Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.

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

Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.

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DCXIV. Measurement of the muon stopping power in lead tungstate

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DCXV. Performance of the CMS cathode strip chambers with cosmic rays

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