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Yoksis Araştırmacı ID: [1369](https://yoksis.gov.tr/yoksis/arastrmaci/1369)

### Eğitim Bilgileri

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

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

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

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

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

### Yabancı Diller

İngilizce, C1 İleri

### Sertifika, Kurs ve Eğitimler

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

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

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

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

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

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

### Yaptığı Tezler

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

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

## Araştırma Alanları

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

## Akademik Unvanlar / Görevler

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

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

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

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

## Akademik İdari Deneyim

Çukurova Üniversitesi, 2013 - Devam Ediyor

## Verdiği Dersler

Parçacık Fiziği, Lisans, 2016 - 2017

Analiz, Lisans, 2013 - 2014

## Yönetilen Tezler

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

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## Jüri Üyelikleri

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

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

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

1. Searches for Pair-Produced Multijet Resonances Using Data Scouting in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV

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

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- II. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV**  
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- III. **Observation of double Formula Presented meson production in Formula Presented collisions at Formula Presented**  
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Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- IV. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and  $\psi(2S)$  mesons produced in pp collisions at  $s=13\text{TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- V. **Performance of the CMS high-level trigger during LHC Run 2**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Benato L., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., et al.  
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- VI. **Using graph neural networks to reconstruct charged pion showers in the CMS High Granularity Calorimeter**  
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- VII. **Search for the Z Boson Decay to  $\tau\tau\mu\mu$  in Proton-Proton Collisions at  $\sqrt{s}=13\text{ TeV}$**   
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- VIII. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at  $\sqrt{s}=13\text{ TeV}$**   
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- IX. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at  $s = 13\text{ TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
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- X. **Search for production of a single vectorlike quark decaying to  $tH$  or  $tZ$  in the all-hadronic final state in pp collisions at [Formula presented]**  
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- XI. **Measurement of differential ZZ + jets production cross sections in pp collisions at  $s = 13\text{ TeV}$**   
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- XII. **Exploring atmospheric neutrino oscillations at ESSnuSB**  
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.  
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- XIII. **Measurement of the  $B_s^0 \rightarrow J/\psi K_S^0$  effective lifetime from proton-proton collisions at  $s = 13\text{ TeV}$**   
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- XIV. **KS0 and  $\Lambda(\Lambda^-)$  two-particle femtoscopic correlations in PbPb collisions at  $\sqrt{s_{NN}}=5.02\text{TeV}$**   
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
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- XV. **Observation of the  $\Lambda b0 \rightarrow J/\psi \Xi^- K^+$  decay**  
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- XVI. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of  $\tau$  leptons in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
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- XVII. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XVIII. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**  
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- XIX. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$  using leptonic W boson decays**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XX. **Performance of the CMS electromagnetic calorimeter in pp collisions at  $\sqrt{s} = 13\text{TeV}$**   
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- XXI. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XXII. **Decoherence in neutrino oscillation at the ESSnuSB experiment**  
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- XXIII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XXIV. **Evidence for tWZ production in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$  in multilepton final states**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
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- XXV. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XXVI. **Search for new physics in high-mass diphoton events from 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.  
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XXVII. **Measurement of multijet azimuthal correlations and determination of the strong coupling 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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- XXVIII. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
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- XXIX. **Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
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- XXX. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Search for dark QCD with emerging jets 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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- XXXIII. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XXXIV. **Search for ZZ and ZH production in the  $bb\bar{b}\bar{b}$  final state using 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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- XXXV. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at  $\sqrt{s}=13$  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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- XXXVI. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XXXVII. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at  $\sqrt{s}=7$  and 8 TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review Letters, cilt.132, sa.26, 2024 (SCI-Expanded)
- XXXVIII. **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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- XXXIX. **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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- XL. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
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- XL1. **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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- XLII. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XLIII. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
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- XLIV. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**  
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- XLV. **Study of nonstandard interactions mediated by a scalar field at the ESSnuSB experiment**  
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.  
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- XLVI. **Search for the lepton flavor violating  $\tau \rightarrow 3\mu$  decay in proton-proton collisions at  $s=13\text{TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)
- XLVII. **Search for  $W'$  bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at  $s = 13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)
- XLVIII. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle 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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- XLIX. **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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- L. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at (Formula presented.)**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
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- LI. **Measurement of the primary Lund jet plane density in proton-proton collisions at  $s = 13$  TeV**  
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- LII. **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.  
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- LIII. **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**  
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- LIV. **Inclusive and differential cross section measurements of  $t\bar{t}b\bar{b}$  production in the lepton+jets channel at  $s = 13$  TeV**  
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- LV. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at  $s = 13.6$  TeV**  
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- XC. **Search for charged-lepton flavor violation in top quark production and decay in pp collisions at root**

**s=13 TeV**

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**XCII. Observation of B-s(0) mesons and measurement of the B-s(0)/B+ yield ratio in PbPb collisions at root S-NN=5.02 TeV**

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**XCIII. Measurement of the production cross section for Z plus b jets in proton-proton collisions at root s=13 TeV**

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**XCIV. Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at root s=13 TeV**

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PHYSICAL REVIEW D, cilt.105, sa.9, 2022 (SCI-Expanded)

**XCIV. Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at root s=13 TeV**

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**XCVI. Measurement of the inclusive and differential t(t)over-bar gamma cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at root s=13 TeV**

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

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**XCVII. Response of a CMS HGCal silicon-pad electromagnetic calorimeter prototype to 20-300 GeV positrons**

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**XCVIII. Precision measurement of the W boson decay branching fractions in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICAL REVIEW D, cilt.105, sa.7, 2022 (SCI-Expanded)

**XCIX. Search for electroweak production of charginos and neutralinos in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2022 (SCI-Expanded)

**C. Measurement of the inclusive t(t)over-bar production cross section in proton-proton collisions at root s=5.02 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Krammer N., Lechner L., et al.

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- CI. **Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**  
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- CII. **Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at root s=13 TeV**  
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- CIV. **Study of dijet events with large rapidity separation in proton-proton collisions at root s=2.76 TeV**  
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- CVII. **<p>Search for W? resonances in proton-proton collisions at vs=13 TeV using hadronic decays of Lorentz-boosted W bosons</p>**  
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- CVIII. **A new calibration method for charm jet identification validated with proton-proton collision events at root s=13 TeV**  
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- CIX. **Search for heavy resonances decaying to WW, WZ, or WH boson pairs in a final state consisting of a lepton and a large-radius jet in proton-proton collisions at root s=13 TeV**  
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- CX. **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**  
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.  
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- CXI. **Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2022 (SCI-Expanded)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2022 (SCI-Expanded)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2022 (SCI-Expanded)

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

Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., Lechner L., et al.

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

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JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2022 (SCI-Expanded)

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

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2022 (SCI-Expanded)

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

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

PHYSICAL REVIEW LETTERS, cilt.128, sa.3, 2022 (SCI-Expanded)

**CXVIII. Measurement of the inclusive and differential t(t)-bar gamma cross sections in the single-lepton channel and EFT interpretation at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

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**CXIX. Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2021 (SCI-Expanded)

**CXX. 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**

Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., Lechner L., et al.

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- CLXXXVII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**  
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- .LXXXVIII. The production of isolated photons in PbPb and pp collisions at root s(NN)=5.02 TeV**  
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- CLXXXIX. Search for disappearing tracks in proton-proton collisions at root s=13 TeV**  
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- CXCI. Measurement of the cross section for t(t)-bar production with additional jets and b jets in pp collisions at root s=13TeV**  
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- CXCII. Strange hadron production in pp and pPb collisions at root(NN)-N-s=5.02 TeV**  
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- CXCIII. A measurement of the Higgs boson mass in the diphoton decay channel**  
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- CXCIV. Search for dijet resonances using events with three jets in proton-proton collisions at root s=13 TeV**  
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- CXCV. Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**  
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- CXCVI. Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**  
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- CXCVII. Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in in pp collisions at root s=13 TeV**  
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- CXCVIII. 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 root s=7 and 8 TeV**  
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- CXCIX. Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in**

**proton-proton collisions at root s=13TeV and constraints on anomalous quartic couplings**

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- CC. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCII. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**  
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- CCIII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at  $\sqrt{s}=13$  TeV**  
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- CCIV. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCV. **Constraints on the  $\chi(c1)$  versus  $\chi(c2)$  Polarizations in Proton-Proton Collisions at  $\sqrt{s}=8$  TeV**  
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- CCVI. **Production of  $\Lambda^+(c)$  baryons in proton-proton and lead-lead collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
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- CCVII. **Measurement of the  $t\bar{t}$  production cross section in the all-jet final state in pp collisions at  $\sqrt{s}=13$  TeV**  
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- CCVIII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCIX. **Running of the top quark mass from proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCX. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**  
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- CCX. **Measurement of properties of  $B(s)(0)s \rightarrow \mu(+)\mu(-)$  decays and search for  $B-0 \rightarrow \mu(+)\mu(-)$  with the CMS experiment**  
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- CCXI. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**  
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- CCXII. **Study of excited  $\Lambda(0)(b)$  states decaying to  $\Lambda(0)(b)\pi(+)\pi(-)$  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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- CCXIII. **Observation of the  $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$  decay in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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 PHYSICS LETTERS B, cilt.802, 2020 (SCI-Expanded)
- CCXIV. **Search for supersymmetry in pp collisions at  $\sqrt{s}=13$  TeV with 137 fb<sup>-1</sup> in final states with a single lepton using the sum of masses of large-radius jets**  
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- CCXV. **A search for the standard model Higgs boson decaying to charm quarks**  
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- CCXVI. **Search for new neutral Higgs bosons through the  $H \rightarrow ZA \rightarrow \mu^+\mu^+bb$  process in pp collisions at  $\sqrt{s}=13$  TeV**  
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- CCXVII. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCXVIII. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to  $\mu\tau$  and  $e\tau$  in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCXIX. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCXX. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions**

at  $\sqrt{s}=13$  TeV

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

CCXXI. **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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CCXXII. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at root s=13 TeV**

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

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

CCXXIII. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at root s=13 TeV**

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

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CCXXIV. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF INSTRUMENTATION, cilt.15, sa.2, 2020 (SCI-Expanded)

CCXXV. **Combined search for supersymmetry with photons in proton-proton collisions at root s=13 TeV**

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

CCXXVI. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at root s=13 TeV**

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EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.2, 2020 (SCI-Expanded)

CCXXVII. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft tau Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at root s=13 TeV**

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

PHYSICAL REVIEW LETTERS, cilt.124, sa.4, 2020 (SCI-Expanded)

CCXXVIII. **Observation of nuclear modifications in W-+/- boson production in pPb collisions at root s(NN)=8.16 TeV**

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

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

CCXXIX. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at root s d=13TeV**

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

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

CCXXX. **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)
- CCXXXI. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**  
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- CCXXXII. **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)
- CCXXXIII. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root s=13TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., Flechl M., et al.  
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- CCXXXIV. **Study of the  $B^+ \rightarrow J/\psi(\Lambda_b)$  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)
- CCXXXV. **Search for long-lived particles using delayed photons in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.  
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXXVI. **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)
- CCXXXVII. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
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- CCXXXVIII. **Probing the chiral magnetic wave in pPb and PbPb collisions at root S-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)
- CCXXXIX. **Measurements of differential Z boson production cross sections in proton-proton collisions at root s=13 TeV**  
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- CCXL. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root S-NN=5.44 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICS LETTERS B, cilt.799, 2019 (SCI-Expanded)
- CCXLI. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**



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PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXLII. **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.  
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- CCXLIII. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
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- CCXLIV. **Search for supersymmetry using Higgs boson to diphoton decays at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
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- CCXLV. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2019 (SCI-Expanded)
- CCXLVI. **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)
- CCXLVII. **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)
- CCXLVIII. **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.  
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- CCXLIX. **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.  
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- CCL. **Measurement of the top quark Yukawa coupling from t(t)-bar kinematic distributions in the lepton plus jets final state in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.100, sa.7, 2019 (SCI-Expanded)
- CCLI. **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.  
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- CCLII. **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

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PHYSICAL REVIEW C, cilt.100, sa.4, 2019 (SCI-Expanded)
- CCLIII. **Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with  $e\mu\mu$  or  $\mu\mu\mu$  in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.123, sa.13, 2019 (SCI-Expanded)
- CCLIV. **Measurement of B-s(0) meson production 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., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICS LETTERS B, cilt.796, ss.168-190, 2019 (SCI-Expanded)
- CCLV. **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)
- CCLVI. **Search for charged Higgs bosons in the  $H^{+/-} \rightarrow \tau^{+/-}\nu(\tau)$  decay channel in proton-proton collisions at  $s=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2019 (SCI-Expanded)
- CCLVII. **Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at  $\sqrt{s}=13$  TeV via Higgs boson decays to leptons**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2019 (SCI-Expanded)
- CCLVIII. **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)
- CCLIX. **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  $\sqrt{s}=8$  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)
- CCLX. **Search for invisible decays of a Higgs boson produced through vector boson fusion 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.793, ss.520-551, 2019 (SCI-Expanded)
- CCLXI. **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)
- CCLXII. **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)

- CCLXIII. **Combined measurements of Higgs boson couplings 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., Brondolin E., Dragicevic M., Eroee J., et al.  
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- CCLXIV. **Combinations of single-top-quark production cross-section measurements and vertical bar f(LV)V(tb)vertical bar determinations at  $\sqrt{s}=7$  and  $8\text{ TeV}$  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)
- CCLXV. **Search for a  $W'$  boson decaying to a tau lepton and a neutrino 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., Brondolin E., Dragicevic M., Eroee J., et al.  
PHYSICS LETTERS B, cilt.792, ss.107-131, 2019 (SCI-Expanded)
- CCLXVI. **Search for an L-mu - L-tau gauge boson using  $Z \rightarrow 4\mu$  events 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., Ero J., Del Valle A. E., et al.  
PHYSICS LETTERS B, cilt.792, ss.345-368, 2019 (SCI-Expanded)
- CCLXVII. **Measurement and interpretation of differential cross sections for Higgs boson production at  $\sqrt{s}=13\text{ TeV}$**   
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)
- CCLXVIII. **Measurement of the energy density as a function of pseudorapidity 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., Eroee J., Del Valle A. E., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCLXIX. **Measurements of the pp WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at  $\sqrt{s}=13\text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXX. **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., Eroee J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCLXXI. **Search for nonresonant Higgs boson pair production in the  $b(\bar{b})\text{over-bar}b(\bar{b})\text{over-bar}$  final state at  $\sqrt{s}=13\text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXXII. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from 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., Eroee J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2019 (SCI-Expanded)
- CCLXXIII. **Measurements of properties of the Higgs boson decaying to a Wboson pair in pp collisions at  $\sqrt{s}=13\text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del

- Valle A. E., et al.  
PHYSICS LETTERS B, cilt.791, ss.96-129, 2019 (SCI-Expanded)
- CCLXXIV. **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)
- CCLXXV. **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)
- CCLXXVI. **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)
- CCLXXVII. **Search for Narrow H gamma Resonances in Proton-Proton Collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.8, 2019 (SCI-Expanded)
- :CLXXVIII. **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)
- CCLXXIX. **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)
- CCLXXX. **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)
- CCLXXXI. **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)
- CCLXXXII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.3, 2019 (SCI-Expanded)
- :CLXXXIII. **Inclusive search for supersymmetry in pp collisions at root s=13 TeV using razor variables and boosted object identification in zero and one lepton final states**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.  
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- CLXXXIV. **Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- CCLXXXV. **Measurement of differential cross sections for Z boson pair production in association with jets at root s=8 and 13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICS LETTERS B, cilt.789, ss.19-44, 2019 (SCI-Expanded)
- CLXXXVI. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)
- CLXXXVII. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
PHYSICS LETTERS B, cilt.789, ss.643-665, 2019 (SCI-Expanded)
- LXXXVIII. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CLXXXIX. **Measurements of  $t(\bar{t})$  differential cross sections in proton-proton collisions at root s=13 TeV using events containing two leptons**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCXC. **Search for pair production of second-generation leptoquarks at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.99, sa.3, 2019 (SCI-Expanded)
- CCXCI. **Search for new particles decaying to a jet and an emerging jet**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- CCXCII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)
- CCXCIII. **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI-Expanded)
- CCXCIV. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
PHYSICAL REVIEW LETTERS, cilt.122, 2019 (SCI-Expanded)

- CCXCV. **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.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.1, 2019 (SCI-Expanded)
- CCXCVI. **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.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)
- CCXCVII. **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)
- CCXCVIII. **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.  
PHYSICAL REVIEW LETTERS, cilt.121, sa.24, 2018 (SCI-Expanded)
- CCXCIX. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root  $s=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.98, sa.11, 2018 (SCI-Expanded)
- CCC. **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)
- CCCI. **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.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCII. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root  $s=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.121, sa.22, 2018 (SCI-Expanded)
- CCCIII. **Search for a charged Higgs boson decaying to charm and bottom quarks 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.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCIV. **Search for supersymmetry in events with a tau lepton pair 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.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCV. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at root  $s=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCVI. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCVII. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2018 (SCI-Expanded)
- CCCVIII. **Measurement of jet substructure observables in t(t)over-bar events from proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICAL REVIEW D, cilt.98, sa.9, 2018 (SCI-Expanded)
- CCCIX. **Measurement of the groomed jet mass in PbPb and pp collisions at root s(NN)=5.02 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCX. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCXI. **Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2018 (SCI-Expanded)
- CCCXII. **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., Eroe J., et al.  
PHYSICS LETTERS B, cilt.785, ss.462-488, 2018 (SCI-Expanded)
- CCCXIII. **Observation of the Z -> psi l(+)l(-) Decay in pp Collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICAL REVIEW LETTERS, cilt.121, sa.14, 2018 (SCI-Expanded)
- CCCXIV. **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., Eroe J., et al.  
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CCCXV. **Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)
- CCCXVI. **Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV**

- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicovic M., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)
- CCCXVII. **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., Dragicovic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)
- CCCXVIII. **Observation of Higgs Boson Decay to Bottom Quarks**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicovic M., Eroe J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.121, sa.12, 2018 (SCI-Expanded)
- CCCXIX. **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicovic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CCCXX. **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., Dragicovic M., Eroe J., Del Valle A. E., et al.  
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- CCCXXI. **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., Dragicovic M., Eroe J., et al.  
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- CCCXXII. **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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- CCCXXIII. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at  $\sqrt{s}=8.16$  TeV**  
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- CCCXXIV. **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., Dragicovic M., Eroe J., et al.  
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- CCCXXV. **Search for vector-like T and B quark pairs in final states with leptons at  $\sqrt{s}=13$  TeV**  
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- CCCXXVI. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
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- CCCXXVII. **Search for beyond the standard model Higgs bosons decaying into a  $b(\bar{b})$  pair in pp**



**collisions at root s=13 TeV**

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

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:CCXXVIII. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV**

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CCCXXIX. **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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CCCXXX. **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.

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CCCXXXI. **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.

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CCCXXXII. **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)

:CCXXXIII. **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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:CCXXXIV. **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**

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PHYSICS LETTERS B, cilt.781, ss.244-269, 2018 (SCI-Expanded)

CCCXXXV. **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**

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

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

:CCXXXVI. **Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV**

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

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

CCCXXXVII. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at root s=13 TeV**

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

- M., Eroe J., et al.  
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- :CXXXVIII. **Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at root s=13 TeV**  
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
 PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- :CCXXXIX. **Search for t(t)over-barH production in the all-jet final state in proton-proton collisions root s=13 TeV**  
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- CCCXL. **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV**  
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- CCCXLI. **Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**  
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- CCCXLII. **Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV**  
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
 PHYSICAL REVIEW C, cilt.97, sa.6, 2018 (SCI-Expanded)
- CCCXLIII. **Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV**  
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- CCCXLIV. **Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
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- CCCXLV. **Observation of (tt)over-barH Production**  
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- CCCXLVI. **Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8 TeV**  
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- CCCXLVII. **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.  
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- :CCXLVIII. **Evidence for the Higgs boson decay to a bottom quark-antiquark pair**  
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- PHYSICS LETTERS B, cilt.780, ss.501-532, 2018 (SCI-Expanded)
- CCCXLIX. **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.  
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- CCCL. **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root s(NN)=5.02 TeV**  
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- CCCLI. **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.  
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- CCCLII. **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.  
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- CCCLIII. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**  
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- CCCLIV. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root s=13 TeV**  
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- CCCLV. **Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector**  
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- CCCLVI. **Measurement of the associated production of a single top quark and a Z boson in pp collisions at, root s=13 TeV**  
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PHYSICS LETTERS B, cilt.779, ss.358-384, 2018 (SCI-Expanded)
- CCCLVII. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root s=13 TeV**  
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.778, ss.101-127, 2018 (SCI-Expanded)
- CCCLVIII. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
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- CCCLIX. **Comparing transverse momentum balance of b jet pairs 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., Brondolin E., Dragicevic M., Eroee J., et al.  
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- CCCLX. **Measurement of the inclusive t(t)over-bar cross section in pp collisions root 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.  
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- CCCLXI. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**  
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- CCCLXII. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**  
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- CCCLXIII. **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.  
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- CCCLXIV. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**  
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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- CCCLXV. **Search for resonant and nonresonant Higgs boson pair production in the b(b)over-bar l nu l nu final state in proton-proton collisions at root s=13 TeV**  
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- CCCLXVI. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at root s=13 TeV**  
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- CCCLXVII. **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 Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.  
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- CCCLXVIII. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**  
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- CCCLXIX. **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., Eroee J., et al.

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- CCCLXX. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV**  
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- CCCLXXI. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root s=13 TeV**  
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- CCCLXXII. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**  
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- CCCLXXIII. **Measurement of charged pion, kaon, and proton production in proton-proton collisions at root s=13 TeV**  
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- CCCLXXIV. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root s=13 TeV**  
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- CCCLXXV. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**  
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- CCCLXXVI. **Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions**  
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- CCCLXXVII. **Search for associated production of dark matter with a Higgs boson decaying to b(b)over-bar or gamma gamma at root s=13 TeV**  
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- CCCLXXVIII. **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)=8 TeV**  
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- CCCLXXIX. **Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at root s=8 TeV**  
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- CCCLXXX. **Search for Supersymmetry in pp Collisions at root s=13 TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**  
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- CCCLXXXI. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root s=13 TeV**  
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- CCLXXXII. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13TeV**  
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- CLXXXIII. **Measurement of the B+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root s(NN)=5.02 TeV**  
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- CLXXXIV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**  
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- CCLXXXV. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root s=13TeV**  
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- CLXXXVI. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**  
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- CLXXXVII. **Measurement of the top quark mass in the dileptonic t(t)over-bar decay channel using the mass observables M-bl, M-T2, and M-blv in pp collisions at root=8 TeV**  
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- DLXXXVIII. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN=2.76 TeV**  
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- DLXXXIX. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=2.76 TeV**  
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- CDXC. **Measurement of the elliptic anisotropy of charged particles produced in PbPb 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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**CDXCI. Observation of long-range, near-side angular correlations in pPb collisions at the LHC**

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

PHYSICS LETTERS B, cilt.718, sa.3, ss.795-814, 2013 (SCI-Expanded)

**CDXCII. Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons 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.

Journal of High Energy Physics, cilt.2013, sa.12, 2013 (SCI-Expanded)

**CDXCIII. Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root s=7 TeV**

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

PHYSICAL REVIEW LETTERS, cilt.110, sa.2, 2013 (SCI-Expanded)

**CDXCIV. Search for a W ' boson decaying to a bottom quark and a top quark 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.

PHYSICS LETTERS B, cilt.718, ss.1229-1251, 2013 (SCI-Expanded)

**CDXCV. Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-barl(+)l(-) final state**

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

PHYSICS LETTERS B, cilt.718, ss.1208-1228, 2013 (SCI-Expanded)

**CDXCVI. Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**

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

PHYSICS LETTERS B, cilt.718, sa.3, ss.815-840, 2013 (SCI-Expanded)

**CDXCVII. Search for Heavy Neutrinos and W-R Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at root s=7 TeV**

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

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**CDXCVIII. Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**

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

PHYSICS LETTERS B, cilt.718, sa.2, ss.348-368, 2012 (SCI-Expanded)

**CDXCIX. Measurement of the relative prompt production rate of chi(c2) and chi(c1) in pp collisions at root s=7 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.12, 2012 (SCI-Expanded)

**D. Search for resonant t(t)over-bar production in lepton plus jets events in pp collisions at root s=7 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2012 (SCI-Expanded)



- DI. **Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.  
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- DII. **Observation of Z decays to four leptons with the CMS detector at the LHC**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.  
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- DIII. **Measurement of the top-quark mass in t(t)over-bar events with lepton plus jets final states in pp collisions at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.  
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- DIV. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.  
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- DV. **A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.  
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- DVI. **Study of the Dijet Mass Spectrum in pp -> W + jets Events at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.  
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- DVII. **Combined search for the quarks of a sequential fourth generation**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.  
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- DVIII. **Measurement of the single-top-quark t-channel cross section in pp collisions at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.  
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- DIX. **Observation of Sequential epsilon Suppression in PbPb Collisions**  
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- DX. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.  
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- DXI. **Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at root s=7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.  
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- DXII. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at root s(NN)=2.76 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C.,

- Friedl M., et al.  
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- DXIII. Inclusive and differential measurements of the  $t(\bar{t})$  over-bar charge asymmetry in proton-proton collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
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- DXIV. Measurement of the top-quark mass in  $t(\bar{t})$  over-bar events with dilepton final states in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
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- DXV. Search for heavy Majorana neutrinos in  $\mu(+/-)\mu(+/-)$  + jets and  $e(+/-)e(+/-)$  + jets events in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
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- DXVI. Search for a  $W'$  or Techni-rho Decaying into  $WZ$  in pp Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
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- DXVII. Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
PHYSICAL REVIEW LETTERS, cilt.109, sa.17, 2012 (SCI-Expanded)
- DXVIII. Study of the inclusive production of charged pions, kaons, and protons in pp collisions at  $\sqrt{s}=0.9, 2.76, \text{ and } 7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.10, 2012 (SCI-Expanded)
- DXIX. Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.  
PHYSICAL REVIEW D, cilt.86, sa.7, 2012 (SCI-Expanded)
- DXX. Performance of CMS muon reconstruction in pp collision events at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.  
JOURNAL OF INSTRUMENTATION, cilt.7, 2012 (SCI-Expanded)
- DXXI. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.9, 2012 (SCI-Expanded)
- DXXII. Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.716, sa.2, ss.260-284, 2012 (SCI-Expanded)
- DXXIII. Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at  $\sqrt{s}=7$  TeV**

**$s=7$  TeV**

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.11, 2012 (SCI-Expanded)

**DXXIV. Search for heavy, top-like quark pair production in the dilepton 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.

PHYSICS LETTERS B, cilt.716, sa.1, ss.103-121, 2012 (SCI-Expanded)

**DXXV. Search for a fermiophobic Higgs boson in pp collisions at root  $s=7$  TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2012 (SCI-Expanded)

**DXXVI. Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel 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.

PHYSICAL REVIEW LETTERS, cilt.109, sa.12, 2012 (SCI-Expanded)

**DXXVII. Search for high-mass resonances decaying into tau-lepton pairs 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.

PHYSICS LETTERS B, cilt.716, sa.1, ss.82-102, 2012 (SCI-Expanded)

**DXXVIII. Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at root  $s=7$  TeV**

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

PHYSICAL REVIEW D, cilt.86, sa.5, 2012 (SCI-Expanded)

**DXXIX. Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**

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

PHYSICS LETTERS B, cilt.716, sa.1, ss.30-61, 2012 (SCI-Expanded)

**DXXX. Study of W boson production in PbPb and 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.

PHYSICS LETTERS B, cilt.715, ss.66-87, 2012 (SCI-Expanded)

**DXXXI. Search for New Physics with Same-Sign Isolated Dilepton Events with Jets 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.

PHYSICAL REVIEW LETTERS, cilt.109, sa.7, 2012 (SCI-Expanded)

**DXXXII. Search for a light charged Higgs boson in top quark decays in pp collisions at root  $s=7$  TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2012 (SCI-Expanded)

**DXXXIII. Search for heavy long-lived charged particles 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.

PHYSICS LETTERS B, cilt.713, ss.408-433, 2012 (SCI-Expanded)

**DXXXIV. Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root  $S\text{-}NN=2.76$  TeV**

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

- Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.109, sa.2, 2012 (SCI-Expanded)
- DXXXV. **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., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.108, sa.26, 2012 (SCI-Expanded)
- DXXXVI. **Measurement of the  $t\bar{t}$  production cross section in pp collisions at  $\sqrt{s}=7$  TeV in dilepton final states containing a tau**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW D, cilt.85, sa.11, 2012 (SCI-Expanded)
- DXXXVII. **Search for neutral Higgs bosons decaying to tau pairs in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.713, sa.2, ss.68-90, 2012 (SCI-Expanded)
- DXXXVIII. **Measurement of the mass difference between top and antitop quarks**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2012 (SCI-Expanded)
- DXXXIX. **Observation of a New  $\Xi(b)$  Baryon**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.108, sa.25, 2012 (SCI-Expanded)
- DXL. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.5, 2012 (SCI-Expanded)
- DXLI. **Search for large extra dimensions in dimuon and dielectron events in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.711, sa.1, ss.15-34, 2012 (SCI-Expanded)
- DXLII. **Search for the standard model Higgs boson decaying into two photons in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.710, sa.3, ss.403-425, 2012 (SCI-Expanded)
- DXLIII. **Search for a Higgs boson in the decay channel  $H \rightarrow ZZ^{(*)} \rightarrow q\bar{q}l\bar{l}$  in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2012 (SCI-Expanded)
- DXLIV. **Measurement of isolated photon production in pp and PbPb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.710, sa.2, ss.256-277, 2012 (SCI-Expanded)
- DXLV. **Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.

- PHYSICS LETTERS B, cilt.710, sa.2, ss.284-306, 2012 (SCI-Expanded)
- DXLVI. Search for the Standard Model Higgs Boson in the Decay Channel  $H \rightarrow ZZ \rightarrow 4l$  in pp Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.108, sa.11, 2012 (SCI-Expanded)
- DXLVII. Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.709, ss.28-49, 2012 (SCI-Expanded)
- DXLVIII. Combined results of searches for the standard model Higgs boson in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.710, sa.1, ss.26-48, 2012 (SCI-Expanded)
- DXLIX. Study of high-p(T) charged particle suppression in PbPb compared to pp collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
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- DL. Search for the standard model Higgs boson in the  $H \rightarrow ZZ \rightarrow 2l2\nu$  channel in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2012 (SCI-Expanded)
- DLI. Search for the standard model Higgs boson in the  $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)}\tau^{(+)}\tau^{(-)}$  decay channel in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2012 (SCI-Expanded)
- DLII. 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.  
Journal of High Energy Physics, cilt.2012, sa.1, 2012 (SCI-Expanded)
- DLIII. Search for the standard model Higgs boson decaying to  $W+W-$  in the fully leptonic final state in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.710, sa.1, ss.91-113, 2012 (SCI-Expanded)
- DLIV. Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.108, sa.11, 2012 (SCI-Expanded)
- DLV. Exclusive  $\gamma\gamma \rightarrow +\mu\mu -$  production in proton-proton 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.  
Journal of High Energy Physics, cilt.2012, sa.1, 2012 (SCI-Expanded)
- DLVI. Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C.,

- Friedl M., et al.  
PHYSICAL REVIEW D, cilt.85, sa.3, 2012 (SCI-Expanded)
- DLVII. **J/psi and psi(2S) production 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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- DLVIII. **Inclusive search for squarks and gluinos 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.  
PHYSICAL REVIEW D, cilt.85, sa.1, 2012 (SCI-Expanded)
- DLIX. **Performance of tau-lepton reconstruction and identification in CMS**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C.,  
Friedl M., et al.  
JOURNAL OF INSTRUMENTATION, cilt.7, 2012 (SCI-Expanded)
- DLX. **Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from 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.  
EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.1, 2012 (SCI-Expanded)
- DLXI. **Search for a Vectorlike Quark with Charge 2/3 in t plus Z Events from 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.  
PHYSICAL REVIEW LETTERS, cilt.107, sa.27, 2011 (SCI-Expanded)
- DLXII. **Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C.,  
Friedl M., et al.  
PHYSICAL REVIEW D, cilt.84, sa.11, 2011 (SCI-Expanded)
- DLXIII. **Search for light resonances decaying into pairs of muons as a signal of new physics**  
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C.,  
Friedl M., et al.  
Journal of High Energy Physics, cilt.2011, sa.7, 2011 (SCI-Expanded)
- DLXIV. **Search for Supersymmetry at the LHC in Events with Jets 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.  
PHYSICAL REVIEW LETTERS, cilt.107, sa.22, 2011 (SCI-Expanded)
- DLXV. **Measurement of the t(t)over-bar production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C.,  
Friedl M., et al.  
PHYSICAL REVIEW D, cilt.84, sa.9, 2011 (SCI-Expanded)
- DLXVI. **Search for New Physics with a Monojet and Missing Transverse Energy 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.  
PHYSICAL REVIEW LETTERS, cilt.107, sa.20, 2011 (SCI-Expanded)
- DLXVII. **Determination of jet energy calibration and transverse momentum resolution in CMS**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C.,  
Friedl M., et al.  
JOURNAL OF INSTRUMENTATION, cilt.6, 2011 (SCI-Expanded)
- DLXVIII. **Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2011 (SCI-Expanded)
- DLXIX. **Search for  $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$  and  $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$  Decays in pp Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.107, sa.19, 2011 (SCI-Expanded)
- DLXX. **Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS**  
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.704, sa.3, ss.123-142, 2011 (SCI-Expanded)
- DLXXI. **A search for excited leptons in pp collisions at  $\sqrt{s}=7$  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.704, sa.3, ss.143-162, 2011 (SCI-Expanded)
- DLXXII. **Inclusive b-hadron production cross section with muons in pp collisions at  $\sqrt{s} = 7$  TeV**  
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.  
Journal of High Energy Physics, cilt.2011, sa.3, 2011 (SCI-Expanded)
- DLXXIII. **Measurement of  $B\bar{B}$  angular correlations based on secondary vertex reconstruction at  $\sqrt{s} = 7$  TeV**  
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.  
Journal of High Energy Physics, cilt.2011, sa.3, 2011 (SCI-Expanded)
- DLXXIV. **Search for physics beyond the standard model using multilepton signatures in pp collisions at  $\sqrt{s}=7$  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.704, sa.5, ss.411-433, 2011 (SCI-Expanded)
- DLXXV. **Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW D, cilt.84, sa.5, 2011 (SCI-Expanded)
- DLXXVI. **Measurement of the  $B\text{-}s(0)$  Production Cross Section with  $B\text{-}s(0) \rightarrow J/\psi\phi$  Decays in pp Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
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- DLXXVII. **Search for first generation scalar leptoquarks in the  $e\nu jj$  channel in pp collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
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- DLXXVIII. **Measurement of charm production in neutrino charged-current interactions**  
Kays-Topaksu A., Onengut G., van Dantzig R., de Jong M., Oldeman R. G. C., Guler M., Kose U., Tolun P., Catanesi M. G., Muciaccia M. T., et al.  
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- DLXXIX. **Measurement of the Inclusive Jet Cross Section in pp Collisions at  $\sqrt{s}=7$  TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.107, sa.13, 2011 (SCI-Expanded)
- DLXXX. **Search for Three-Jet Resonances in pp Collisions at  $\sqrt{s}=7$  TeV**

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

PHYSICAL REVIEW LETTERS, cilt.107, sa.10, 2011 (SCI-Expanded)

DLXXXI. **Measurement of the t-Channel Single Top Quark Production Cross Section 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.

PHYSICAL REVIEW LETTERS, cilt.107, sa.9, 2011 (SCI-Expanded)

DLXXXII. **Measurement of the ratio of the 3-jet to 2-jet cross sections 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.

PHYSICS LETTERS B, cilt.702, sa.5, ss.336-354, 2011 (SCI-Expanded)

DLXXXIII. **Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=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.

PHYSICAL REVIEW LETTERS, cilt.107, sa.5, 2011 (SCI-Expanded)

DLXXXIV. **Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**

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

PHYSICAL REVIEW LETTERS, cilt.107, sa.2, 2011 (SCI-Expanded)

DLXXXV. **Search for supersymmetry in events with b jets and missing transverse momentum at the LHC**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2011 (SCI-Expanded)

DLXXXVI. **Search for a W ' boson decaying to a muon and a neutrino 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.

PHYSICS LETTERS B, cilt.701, sa.2, ss.160-179, 2011 (SCI-Expanded)

DLXXXVII. **Measurement of W gamma and Z gamma production 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.

PHYSICS LETTERS B, cilt.701, sa.5, ss.535-555, 2011 (SCI-Expanded)

DLXXXVIII. **Measurement of the t(t)over-bar production cross section and the top quark mass in the dilepton channel 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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2011 (SCI-Expanded)

DLXXXIX. **Search for a heavy bottom-like quark 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.

PHYSICS LETTERS B, cilt.701, sa.2, ss.204-223, 2011 (SCI-Expanded)

DXC. **Measurement of the differential dijet production cross section 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.

PHYSICS LETTERS B, cilt.700, ss.187-206, 2011 (SCI-Expanded)

DXCI. **Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy 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.



- JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2011 (SCI-Expanded)
- DXCII. Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC**  
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**$s(\text{NN})=5.02$  TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

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**XXIII. Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two tau leptons in proton-proton collisions at TeV**

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**XXIV. Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at root  $s=7$  and 8 TeV**

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**XXVII. Measurement of  $W$ - $\gamma$  differential cross sections in proton-proton collisions at root  $s=13$  TeV and effective field theory constraints**

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