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### Eđitim Bilgileri

Doktora, ukurova niversitesi, Fen Bilimleri Enstits, Fizik, Trkiye 1987 - 1992

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### Yabancı Diller

İngilizce, B2 Orta st

### Yaptıđı Tezler

Doktora, Production of Secondaries at Supercollider Energies , ukurova niversitesi, Fizik, Yksek Enerji Fiziđi, 1992

Yksek Lisans, Yksek Enerjili Elastik Hadronik Saılma ile İlgili Deneysel Veriler ve Fenomenoloji , ukurova niversitesi, Fizik, Fizik/Yksek Enerji Fiziđi, 1986

### AraŐtırma Alanları

Fizik, Temel Paracıklar ve Alanlar , Temel Bilimler

### Akademik Unvanlar / Grevler

Prof. Dr., ukurova niversitesi, Fen-Edebiyat Fakltesi, Fizik, 2001 - Devam Ediyor

Do. Dr., ukurova niversitesi, Fen-Edebiyat Fakltesi, Fizik, 1995 - 2001

Yrd. Do. Dr., ukurova niversitesi, Fen-Edebiyat Fakltesi, Fizik, 1993 - 1995

AraŐtırma Grevlisi, ukurova niversitesi, Fen-Edebiyat Fakltesi, Fizik, 1984 - 1993

### Akademik İdari Deneyim

ukurova niversitesi, Fizik, Fizik, 2010 - Devam Ediyor

Çukurova Üniversitesi, Fizik, Fizik, 2003 - 2006

Çukurova Üniversitesi, Fen Edebiyat Fakültesi, 2002 - 2005

## Yönetilen Tezler

- Eşkut E., 13 TeV'lik pp Çarpışmalarında Enerji Akışının CMS Deneyi ile Ölçülmesi, Doktora, E.PINAR(Öğrenci), 2023
- Eşkut E., İleri hadronik kalorimetre (HF)'in LED'lerinde gözlenen tekleme problemi, Yüksek Lisans, B.KAPLAN(Öğrenci), 2022
- Eşkut E., DETERMINATION OF THE JET ENERGY SCALE CORRECTIONS FOR THE LOW PT JETS IN PROTON-PROTON COLLISIONS AT  $\sqrt{s}= 13$  TeV WITH THE CMS EXPERIMENT, Doktora, Z.Şeyma(Öğrenci), 2020
- Eşkut E., İLERİ BÖLGE JETLERİ İÇİN BELİRLenen JET ENERJİ DÜZELTME FAKTÖRLERİNİN TESTİ, Yüksek Lisans, A.ŞAHİN(Öğrenci), 2020
- Eşkut E., CMS DEDEKTÖRÜNÜN HB KALORİMETRESİNDE YENİLENE KALİBRASYON BİRİMLERİNİN LAZER TESTLERİ ANALİZİ, Yüksek Lisans, B.Tuğçe(Öğrenci), 2020
- EŞKUT E., Measurement of Energy Density as a Function of Pseudorapidity in proto-proton Collisions at 13 TeV with the CMS Experiment LHC, Doktora, Ç.Zorbilmez(Öğrenci), 2019
- EŞKUT E., Hadronik İleri Kalorimetre (HF)'de Kullanılan QIE10 Kartlarının Pedestal,CAPID, ICI Testleri, Yüksek Lisans, İ.Baldan(Öğrenci), 2017
- EŞKUT E., Measurements of Inclusive Low-PT Jets Cross-Section and Azimuthal Angle Decorrelation of Jets with Large Rapidity Separation Using Run I CMS Data, Doktora, İ.Hoş(Öğrenci), 2016
- EŞKUT E., Inclusive Forward Jet Cross Section Measurement in Proton-Proton Collisions at  $\sqrt{s}=7$  TeV, Doktora, S.Girgis(Öğrenci), 2014
- EŞKUT E., İleri Hadronik Kalorimetre HF)'de Kullanılanılacak olan Yeni Foto Çoğaltıcı Tüp (FÇT)'lerin Testleri ve Farklı Jet Algoritmalarında ve Jet Tiplerinde Jet Analizi, Yüksek Lisans, F.Hayal(Öğrenci), 2013
- EŞKUT E., CMS Deneyindeki HB ve HE Kalorimetresindeki HFD'lerin Gürültü Analizleri ve HO Test Düzenegindeki SiFÇ'lerin Self Trigger Analizi, Yüksek Lisans, Z.Şeyma(Öğrenci), 2013
- EŞKUT E., CMS'deki Hadronik Dış Kalorimetre (HO) için HO904 Kararlılık Testlerinde LED Analizi, Yüksek Lisans, M.Özcan(Öğrenci), 2013
- EŞKUT E., CMS'deki ZDC Dedektörü için Akım Ayırıcı Devre, Yüksek Lisans, Ç.Zorbilmez(Öğrenci), 2012
- EŞKUT E., CMS'in HF Detektöründeki FÇT(Foto Çoğaltıcı Tüp)'lerin Yüksek Voltaj Altındaki Davranışlarının İncelenmesi (, Yüksek Lisans, E.Pnar(Öğrenci), 2009
- EŞKUT E., Performance Improvement of an AGATA Segmented Germanium Detector, Doktora, S.Aydın(Öğrenci), 2009
- EŞKUT E., Low-x QCD with Jets in the CMS Hadron Forward Calorimeter in Proton-Proton Collisions at 14 TeV and Test Studies of Forward Calorimeters, Doktora, S.Çerçi(Öğrenci), 2009
- EŞKUT E., CMS CASTOR Detektöründe Kullanılan Kuvartz Plakaların Ütülmesi ve Dedektöre Montajı, Yüksek Lisans, A.Ayhan(Öğrenci), 2009
- EŞKUT E., ATLAS MDT'leri için hodoskop sistemi, Yüksek Lisans, H.Şahiner(Öğrenci), 2007
- EŞKUT E., CMS (Compact Muon Solenoid) Deneyindeki CASTOR Detektörünün Test Veri Analizleri, Yüksek Lisans, N.Aksay(Öğrenci), 2006
- EŞKUT E., Study of the Response of the CMS Hadron Calorimeter, Doktora, S.Esen(Öğrenci), 2006
- EŞKUT E., 12C+12C ve 16O+16O nükleer reaksiyonlarının esnek ve esnek olmayan etkileşmelerinin yeni çiftlenim potansiyeli kullanılarak incelenmesi, Yüksek Lisans, S.Aydın(Öğrenci), 2004
- EŞKUT E., CMS Deneyinde CP Kırınımı, Yüksek Lisans, S.Çerçi(Öğrenci), 2003
- EŞKUT E., Nötrino Fiziğinde Son Gelişmeler, Yüksek Lisans, H.Topaklı(Öğrenci), 2003
- EŞKUT E., CMS Deneyinde Araştırılacak Fizik Konuları, Yüksek Lisans, S.Esen(Öğrenci), 2001
- EŞKUT E., CMS (Compact Muon Solenoid) Deneyinde Kullanılacak Olan VFCAL (En İleri Kalorimetre)'in Enerji Lineerliliği, Yüksek Lisans, S.Sancar(Öğrenci), 2000
- EŞKUT E., Güneşsel ve Atmosferik Nötrino Problemleri, Yüksek Lisans, H.Öztürk(Öğrenci), 1997

## Jüri Üyelikleri

Doçentlik Snavı, Doçentlik sınavında jüri üyesi, Ankara Üniversitesi, Mart, 2017  
Doçentlik Snavı, Doçentlik sınavı, Eskişehir Üniversitesi, Nisan, 2015  
Doçentlik Snavı, Doçentlik Snav Jürisi, ÜAK/Boğaziçi Üniv., Haziran, 2014  
Doçentlik Snavı, Doçentlik Snav Jürisi, ÜAK/Boğaziçi Üniv., Ekim, 2013  
Doçentlik Snavı, Doçentlik Snav Jürisi, ÜAK/Ankara TOBB Univ., Temmuz, 2012  
Doçentlik Snavı, Doçentlik Snav Jürisi, ÜAK/Çukurova Üniv., Nisan, 2010

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

- I. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical review letters, cilt.133, sa.19, ss.191902, 2024 (SCI-Expanded)
- II. **Observation of double  $F_0$  meson production in  $F_0$  meson production collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- III. **Measurement of the polarizations of prompt and non-prompt  $F_0$  mesons produced in pp collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.858, 2024 (SCI-Expanded)
- IV. **Search for the Z Boson Decay to  $\tau\tau\mu\mu$  in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical review letters, cilt.133, sa.16, ss.161805, 2024 (SCI-Expanded)
- V. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical review letters, cilt.133, sa.14, ss.142301, 2024 (SCI-Expanded)
- VI. **Measurement of differential ZZ + jets production cross sections in pp collisions at  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- VII. **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  $\sqrt{s}=13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- VIII. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- IX.  **$K_S^0$  and  $\Lambda(\Lambda^-)$  two-particle femtoscopic correlations in PbPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

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

- 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]**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.7, 2024 (SCI-Expanded)
- XI. **Observation of the  $\Lambda b^0 \rightarrow J/\psi \Xi^- K^+$  decay**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.  
European Physical Journal C, cilt.84, sa.10, 2024 (SCI-Expanded)
- XII. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at  $s = 13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XIII. **Measurement of the  $B_s^0 \rightarrow J/\psi K_S^0$  effective lifetime 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.10, 2024 (SCI-Expanded)
- XIV. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Journal of Instrumentation, cilt.19, sa.9, 2024 (SCI-Expanded)
- XV. **Performance of the CMS electromagnetic calorimeter in  $pp$  collisions at  $\sqrt{s} = 13$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of Instrumentation, cilt.19, sa.9, 2024 (SCI-Expanded)
- XVI. **Search for a resonance decaying to a  $W$  boson and a photon in proton-proton collisions at  $s = 13$  TeV using leptonic  $W$  boson decays**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Journal of High Energy Physics, cilt.2024, sa.9, 2024 (SCI-Expanded)
- XVII. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review Letters, cilt.133, sa.7, 2024 (SCI-Expanded)
- XVIII. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at [Formula Presented]**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.3, 2024 (SCI-Expanded)
- XIX. **Evidence for  $tWZ$  production in proton-proton collisions at  $s=13$  TeV in multilepton final states**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.855, 2024 (SCI-Expanded)
- XX. **Constraints on anomalous Higgs boson couplings from its production and decay using the  $WW$  channel 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.  
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)

- XXI. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at  $s=13\text{TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XXII. **Search for new physics in high-mass diphoton events from proton-proton collisions at  $s = 13 \text{ TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XXIII. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Physical Review Letters, cilt.133, sa.2, 2024 (SCI-Expanded)
- XXIV. **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.  
Physical Review Letters, cilt.133, sa.1, 2024 (SCI-Expanded)
- XXV. **Search for ZZ and ZH production in the  $bb\bar{b}\bar{b}$  final state using proton-proton collisions at  $s=13\text{TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
European Physical Journal C, cilt.84, sa.7, 2024 (SCI-Expanded)
- XXVI. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark  $ff$  pair in multilepton events at  $\sqrt{s}=13 \text{ TeV}$**   
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)
- XXVII. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **Search for dark QCD with emerging jets in proton-proton collisions at  $s = 13 \text{ TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Journal of High Energy Physics, cilt.2024, sa.7, 2024 (SCI-Expanded)
- XXX. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXXI. **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)

- XXXII. **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)
- XXXIII. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review Letters, cilt.132, sa.24, 2024 (SCI-Expanded)
- XXXIV. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXV. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXVI. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXVII. **Search for the lepton flavor violating  $\tau \rightarrow 3\mu$  decay in proton-proton collisions at  $s=13$ TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)
- XXXVIII. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXIX. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- 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.  
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XLI. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at  $s = 13.6$  TeV**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)
- XLII. **Inclusive and differential cross section measurements of  $t\bar{t}b\bar{b}$  production in the lepton+jets channel 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)
- XLIII. **Measurement of the primary Lund jet plane density 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)
- XLIV. **Measurement of simplified template cross sections of the Higgs boson produced in association with  $w$  or  $z$  bosons in the Formula Presented decay channel in proton-proton collisions at Formula Presented**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Physical Review D, cilt.109, sa.9, 2024 (SCI-Expanded)
- XLV. **Development of the CMS detector for the CERN LHC Run 3**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.  
Journal of Instrumentation, cilt.19, sa.5, 2024 (SCI-Expanded)
- XLVI. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at (Formula presented.)**  
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
Journal of High Energy Physics, cilt.2024, sa.5, 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 exotic decays of the Higgs boson to a pair of pseudoscalars in the  $\mu\mu b\bar{b}$  and  $\tau\tau b\bar{b}$  final states**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.  
European Physical Journal C, cilt.84, sa.5, 2024 (SCI-Expanded)
- XLIX. **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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.852, 2024 (SCI-Expanded)
- L. **Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Physical Review D, cilt.109, sa.7, 2024 (SCI-Expanded)
- LI. **Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at Formula Presented**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Physical Review D, cilt.109, sa.7, 2024 (SCI-Expanded)
- LII. **Observation of  $WW\gamma$  Production and Search for  $H\gamma$  Production 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., Escalante Del Valle A., Hussain P., et al.  
Physical Review Letters, cilt.132, sa.12, 2024 (SCI-Expanded)

- LIII. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**  
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
 Physical Review Letters, cilt.132, sa.11, 2024 (SCI-Expanded)
- LIV. **Study of azimuthal anisotropy of  $\Upsilon(1S)$  mesons in pPb collisions at  $s_{NN} = 8.16$  TeV**  
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- LV. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at  $s=13$ TeV**  
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- LVI. **Search for dark matter particles in  $W+W-$  events with transverse momentum imbalance in proton-proton collisions at  $s = 13$  TeV**  
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
 Journal of High Energy Physics, cilt.2024, sa.3, 2024 (SCI-Expanded)
- LVII. **Measurements of azimuthal anisotropy of nonprompt  $D^0$  mesons in PbPb collisions at  $s_{NN}=5.02$ TeV**  
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- LVIII. **Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton**  
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
 Journal of High Energy Physics, cilt.2024, sa.3, 2024 (SCI-Expanded)
- LIX. **Search for Scalar Leptoquarks Produced via  $\tau$ -Lepton-Quark Scattering in pp Collisions at  $\sqrt{s}=13$  TeV**  
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
 Physical review letters, cilt.132, sa.6, ss.61801, 2024 (SCI-Expanded)
- LX. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**  
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
 Physical Review C, cilt.109, sa.2, 2024 (SCI-Expanded)
- LXI. **Higher-order moments of the elliptic flow distribution in PbPb collisions at  $s_{NN} = 5.02$  TeV**  
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.  
 Journal of High Energy Physics, cilt.2024, sa.2, 2024 (SCI-Expanded)
- LXII. **Muon identification using multivariate techniques in the CMS experiment 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., Escalante Del Valle A., Hussain P., et al.  
 Journal of Instrumentation, cilt.19, sa.2, 2024 (SCI-Expanded)
- LXIII. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum 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., Del Valle A. E., Frühwirth R., et al.



Physical Review Letters, cilt.132, sa.4, 2024 (SCI-Expanded)

- LXIV. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**  
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.  
Physical review letters, cilt.132, sa.2, ss.21803, 2024 (SCI-Expanded)
- LXV. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.  
European Physical Journal C, cilt.84, sa.1, 2024 (SCI-Expanded)
- LXVI. **Study of charm hadronization with prompt  $\Lambda_c^+$  baryons in proton-proton and lead-lead 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.  
Journal of High Energy Physics, cilt.2024, sa.1, 2024 (SCI-Expanded)
- LXVII. **Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at  $s = 13 \text{ TeV}$**   
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.  
Journal of High Energy Physics, cilt.2024, sa.1, 2024 (SCI-Expanded)
- LXVIII. **Luminosity determination using Z boson production at the CMS experiment**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.  
European Physical Journal C, cilt.84, sa.1, 2024 (SCI-Expanded)
- LXIX. **Measurement of the  $\tau$  lepton polarization in Z boson decays 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.  
Journal of High Energy Physics, cilt.2024, sa.1, 2024 (SCI-Expanded)
- LXX. **Evidence for Higgs boson decay to a pair of muons**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2021 (SCI-Expanded)
- LXXI. **Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at  $\sqrt{s}=13 \text{ TeV}$**   
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 D, cilt.102, sa.11, 2020 (SCI-Expanded)
- LXXII. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s}=13 \text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2020 (SCI-Expanded)
- LXXIII. **Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at  $\sqrt{s}=13 \text{ TeV}$**   
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2020 (SCI-Expanded)
- LXXIV.  **$W^+ W^-$  boson pair production in proton-proton collisions at  $\sqrt{s}=13 \text{ TeV}$**   
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 D, cilt.102, sa.9, 2020 (SCI-Expanded)
- LXXV. **Search for decays of the 125 GeV Higgs boson into a Z boson and a rho or phi meson**  
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, 2020 (SCI-Expanded)
- LXXVI. **Measurement of B-c(2S)(+) and B-c\*(2S)(+) cross section ratios in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.  
PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)
- LXXVII. **Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.  
JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)
- LXXVIII. **Search for a light charged Higgs boson in the H-+/- -> cs channel in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.  
PHYSICAL REVIEW D, cilt.102, sa.7, 2020 (SCI-Expanded)
- LXXIX. **Search for supersymmetry in proton-proton collisions at  $\sqrt{s}=13$  TeV in events with high-momentum Z bosons and missing transverse momentum**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2020 (SCI-Expanded)
- LXXX. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.125, sa.10, 2020 (SCI-Expanded)
- LXXXI. **Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.  
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- LXXXII. **Measurement of the t(t)over-barb(b)over-bar production cross section in the all-jet final state in pp collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.  
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- LXXXIII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2020 (SCI-Expanded)
- LXXXIV. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruhwirth R., et al.  
PHYSICAL REVIEW LETTERS, cilt.124, sa.13, 2020 (SCI-Expanded)
- LXXXV. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

- Valle A. E., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- LXXXVI. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- LXXXVII. **Search for resonances decaying to a pair of Higgs bosons in the  $b(b)\overline{b}(\overline{b})\nu\overline{\nu}$  final state in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2019 (SCI-Expanded)
- LXXXVIII. **Charged-particle angular correlations in XeXe collisions at  $\sqrt{s(NN)}=5.44$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW C, cilt.100, sa.4, 2019 (SCI-Expanded)
- LXXXIX. **Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
PHYSICAL REVIEW C, cilt.100, sa.2, 2019 (SCI-Expanded)
- XC. **Measurement of electroweak WZ boson production and search for new physics in WZ plus two jets events in pp collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICS LETTERS B, cilt.795, ss.281-307, 2019 (SCI-Expanded)
- XCI. **Performance of missing transverse momentum reconstruction in proton-proton collisions at  $\sqrt{s}=13$  TeV using the CMS detector**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF INSTRUMENTATION, cilt.14, 2019 (SCI-Expanded)
- XCII. **Search for charged Higgs bosons in the  $H\rightarrow\tau\nu$  decay channel in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2019 (SCI-Expanded)
- XCIII. **Search for supersymmetry in final states with photons 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., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2019 (SCI-Expanded)
- XCIV. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.5, 2019 (SCI-Expanded)
- XCV. **Observation of prompt J/psi meson elliptic flow in high-multiplicity pPb collisions at  $\sqrt{s(NN)}=8.16$  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.791, ss.172-194, 2019 (SCI-Expanded)

- XCVI. Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- XCVII. Search for dark matter produced in association with a single top quark or a top quark pair 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., Ero J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2019 (SCI-Expanded)
- XCVIII. Search for pair production of first-generation scalar leptoquarks 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.  
PHYSICAL REVIEW D, cilt.99, sa.5, 2019 (SCI-Expanded)
- XCIX. Non-Gaussian elliptic-flow fluctuations in PbPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
PHYSICS LETTERS B, cilt.789, ss.643-665, 2019 (SCI-Expanded)
- C. 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)
- CI. Multiparticle correlations and higher order harmonics in pPb collisions at  $\sqrt{s_{NN}}=8.16$  TeV**  
Wang Q., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.375-378, 2019 (SCI-Expanded)
- CII. Search for the chiral magnetic effect at the LHC with the CMS experiment**  
Tu Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.527-530, 2019 (SCI-Expanded)
- CIII. D-0-Meson R-AA in PbPb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV and Elliptic Flow in pPb Collisions at  $\sqrt{s_{NN}}=8.16$  TeV with CMS**  
Shi Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.647-650, 2019 (SCI-Expanded)
- CIV. 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)
- CV. Fragmentation of J/psi in jets in pp collisions at  $\sqrt{s}=5.02$  TeV** **Batoul Diab for the CMS collaboration**  
Diab B., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.186-188, 2019 (SCI-Expanded)
- CVI. Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**  
Oh G., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.743-746, 2019 (SCI-Expanded)
- CVII. Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**  
Stojanovic M., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.

- NUCLEAR PHYSICS A, cilt.982, ss.395-398, 2019 (SCI-Expanded)
- CVIII. Evidence for light-by-light scattering in ultraperipheral PbPb collisions at root S-NN=5.02 TeV**  
d'Enterria D., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.  
NUCLEAR PHYSICS A, cilt.982, ss.791-794, 2019 (SCI-Expanded)
- CIX. Measurement of inclusive and differential Higgs boson production cross sections 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., Dragicevic M., Eroe J., Escalante Del Valle A., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)
- CX. Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.  
PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)
- CXI. 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., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)
- CXII. Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at root s = 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.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2019 (SCI-Expanded)
- CXIII. Search for pair-produced three-jet 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 D, cilt.99, sa.1, 2019 (SCI-Expanded)
- CXIV. Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at root s(NN)=5.02 TeV Using Isolated Photon-Tagged Jets**  
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.24, 2018 (SCI-Expanded)
- CXV. 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)
- CXVI. Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and 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.11, 2018 (SCI-Expanded)
- CXVII. Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**  
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.98, sa.4, 2018 (SCI-Expanded)
- CXVIII. 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)
- CXIX. **Search for third-generation scalar leptoquarks decaying to a top quark and a  $\tau$  lepton at  $\sqrt{s}=13\text{ TeV}$**   
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.  
European Physical Journal C, cilt.78, sa.9, 2018 (SCI-Expanded)
- CXX. **Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at  $\sqrt{s}=13\text{ TeV}$**   
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.  
European Physical Journal C, cilt.78, sa.9, 2018 (SCI-Expanded)
- CXXI. **Search for a heavy resonance decaying into a Z boson and a vector boson in the  $v(v)\text{over-bar}q(q)\text{over-bar}$  final state**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)
- CXXII. **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)
- CXXIII. **Measurement of angular parameters from the decay  $B^0 \rightarrow K^{*0}\mu^{+}\mu^{-}$  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., Eroe J., et al.  
PHYSICS LETTERS B, cilt.781, ss.517-541, 2018 (SCI-Expanded)
- CXXIV. **Search for high-mass resonances in final states with a lepton and missing transverse momentum at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CXXV. **Search for lepton flavour violating decays of the Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CXXVI. **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)
- CXXVII. **Search for excited quarks of light and heavy flavor in gamma plus jet final states in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.781, ss.390-411, 2018 (SCI-Expanded)
- CXXVIII. **Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum 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.  
PHYSICS LETTERS B, cilt.780, ss.118-143, 2018 (SCI-Expanded)

- CXXXIX. **Search for pair production of excited top quarks in the lepton plus jets final state The CMS Collaboration**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.778, ss.349-370, 2018 (SCI-Expanded)
- CXXX. **Constraint on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root s=8TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2018 (SCI-Expanded)
- CXXXI. **Measurements of  $t(\bar{t})$  over-bar cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.  
PHYSICS LETTERS B, cilt.776, ss.355-378, 2018 (SCI-Expanded)
- CXXXII. **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 Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.  
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CXXXIII. **Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root s=13TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2017 (SCI-Expanded)
- CXXXIV. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**  
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.  
JOURNAL OF INSTRUMENTATION, cilt.12, 2017 (SCI-Expanded)
- CXXXV. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.11, 2017 (SCI-Expanded)
- CXXXVI. **Measurement of the  $t(\bar{t})$  over-bar production cross section using events with one lepton and at least one jet in pp collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2017 (SCI-Expanded)
- CXXXVII. **Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at root s(NN)=2.76 TeV with the CMS experiment**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.772, ss.489-511, 2017 (SCI-Expanded)
- CXXXVIII. **Search for standard model production of four top quarks in proton-proton collisions at root s=13TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
PHYSICS LETTERS B, cilt.772, ss.336-358, 2017 (SCI-Expanded)
- CXXXIX. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J.,

- Flechl M., et al.  
PHYSICS LETTERS B, cilt.772, ss.306-329, 2017 (SCI-Expanded)
- CXL. **Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.771, ss.80-105, 2017 (SCI-Expanded)
- CXLI. **Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)
- CXLII. **Search for heavy gauge W' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.770, ss.278-301, 2017 (SCI-Expanded)
- CXLIII. **Measurement of the jet mass in highly boosted t(t)over-bar events from pp collisions at root s=8TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.7, 2017 (SCI-Expanded)
- CXLIV. **Measurement of the cross section for electroweak production of Z gamma in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at root s=8 TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.770, ss.380-402, 2017 (SCI-Expanded)
- CXLV. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.  
PHYSICS LETTERS B, cilt.770, ss.50-71, 2017 (SCI-Expanded)
- CXLVI. **Search for t(t)over-bar resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2017 (SCI-Expanded)
- CXLVII. **Measurement of electroweak-induced production of W gamma with two jets in pp collisions at root s=8TeV and constraints on anomalous quartic gauge couplings**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2017 (SCI-Expanded)
- CXLVIII. **Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at root s=13 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2017 (SCI-Expanded)
- CXLIX. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,



- Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.768, ss.137-162, 2017 (SCI-Expanded)
- CL. **Measurement of the top quark mass using single top quark events in proton-proton collisions at root s=8 TeV**  
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)
- CLI. **Observation of gamma(1S) pair production in proton-proton collisions at root s=8 TeV**  
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2017 (SCI-Expanded)
- CLII. **Measurement of the WZ production cross section in pp collisions at root s=7 and 8 TeV and search for anomalous triple gauge couplings at root s=8 TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.4, 2017 (SCI-Expanded)
- CLIII. **Measurement of the WZ production cross section in pp collisions at root s=13 TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICS LETTERS B, cilt.766, ss.268-290, 2017 (SCI-Expanded)
- CLIV. **Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at root s=8 TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
PHYSICAL REVIEW D, cilt.95, sa.5, 2017 (SCI-Expanded)
- CLV. **Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at root s=13 TeV**  
Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2017 (SCI-Expanded)
- CLVI. **Measurement of the production cross section of a W boson in association with two b jets in pp collisions at root s=8TeV**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.2, 2017 (SCI-Expanded)
- CLVII. **Searches for invisible decays of the Higgs boson in pp collisions at root S=7, 8, and 13 TeV**  
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2017 (SCI-Expanded)
- CLVIII. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at root s=13 TeV**  
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2017 (SCI-Expanded)
- CLIX. **Observation of the diphoton decay of the Higgs boson and measurement of its properties**  
EŞKUT E., KAYIŞ TOPAKSU A., POLATÖZ A., DUMANOĞLU İ.  
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.10, ss.1-49, 2014 (SCI-Expanded)
- CLX. **Measurement of the rapidity and transverse momentum distributions of Z bosons 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.

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Portable Acceleration of CMS Computing Workflows with Coprocessors as a Service**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.  
Computing and Software for Big Science, cilt.8, sa.1, 2024 (Scopus)
- II. **The CMS Statistical Analysis and Combination Tool: Combine**  
Zhokin A., Zhizhin I., Zarubin A., Yuldashev B., Voytishin N., Vorotnikov G., Vorobyev A., Volkov P., Uzunian A., Uvarov L., et al.  
Computing and Software for Big Science, cilt.8, sa.1, 2024 (Scopus)
- III. **HADRONİK İLERİ KALORİMETRE (HF)'DE KULLANILAN QIE10 KARTLARININ PEDESTAL, CAPID VE İCI TESTLERİ**  
BALDAN İ., EŞKUT E.  
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, cilt.35, sa.1, ss.71-80, 2018 (Hakemsiz Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **First CMS Results at 13 TeV**  
Ronchese P., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., GÖKBULUT G., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., CMS C.  
MESON 2016, 2 - 07 Haziran 2016, cilt.130, ss.1029
- II. **Z W jets production at 8 13 TeV in CMS**  
ÖCALAN K., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., GÖKBULUT G., KAYIŞ TOPAKSU A., POLATÖZ A., et al.  
QCD@Work 2016, 27 - 30 Haziran 2016, cilt.129, ss.2
- III. **Recent Results from CMS**  
DORDEVİĆ M., KHACHATRYAN V., ÖZDEMİR K., HOŞ İ., ÖNENGÜT G., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., GÖKBULUT G., CMS C.  
19 th International Seminar on High Energy Physics(Quarks-2016), 29 Mayıs - 04 Haziran 2016, cilt.125, ss.1001
- IV. **Jet Production and Energy Distribution in the very forward direction at 13 TeV with CMS**  
SUNAR ÇERÇİ D., ÖNENGÜT G., ÖZDEMİR K., HOŞ İ., GİRĞİS S., EŞKUT E., CMS C.  
Turkish Physical Society 32nd International Physics Congress, 6 - 09 Eylül 2016
- V. **Recent forward physics and diffraction results from CMS**  
Veres G., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., GÖKBULUT G., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., CMS C.  
ISMD 2015, 4 - 09 Ekim 2015, cilt.120, ss.2003
- VI. **First Run 2 Searches for Exotica At CMS**  
BAŞEĞMEZ DU PREE S., Khachatryan V., HOŞ İ., ADIGÜZEL A., ÖZDEMİR K., ÖNENGÜT G., POLATÖZ A., EŞKUT E., CMS C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1379
- VII. **Higgs to tau tau Anaysis in the CMS experiment**  
Olszewski M., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., GÖKBULUT G., POLATÖZ A., KAYIŞ TOPAKSU A., et al.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1697-1703
- VIII. **HIGGS TO TAU TAU ANALYSIS IN THE CMS EXPERIMENT**  
Olszewski M., Khachatryan V., Sirunyan A., ÖZDEMİR K., ÖNENGÜT G., HOŞ İ., POLATÖZ A., EŞKUT E., CMS C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1697

- IX. Exclusive Production at CMS**  
Walczak M., Khachatryan V., ÖNENGÜT G., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., POLATÖZ A., EŞKUT E., CMS C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1751
- X. Standart Model Results of CMS At 13 TEV**  
AHMAD M., KHACHATRYAN V., ÖZDEMİR K., ÖNENGÜT G., HOŞ İ., ADIGÜZEL A., POLATÖZ A., EŞKUT E.,  
Collaboration C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1365
- XI. Standard Model Results of CMS at 13 TeV**  
Ahmad M., HOŞ İ., ADIGÜZEL A., ÖZDEMİR K., KANGAL E. E., EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A.,  
Collaboration C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1365-1377
- XII. Heavy Ion Results of the CMS experiment**  
Boimska B., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., GÖKBULUT G.,  
KAYIŞ TOPAKSU A., et al.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1397-1415
- XIII. Heavy Ion results Of CMS Experiment**  
BOIMSKA B., KHACHATRYAN V., HOŞ İ., ADIGÜZEL A., ÖNENGÜT G., POLATÖZ A., EŞKUT E., ÖZDEMİR K., CMS C.  
Epiphany 2016 Conference, 7 - 09 Ocak 2016, cilt.47, ss.1397
- XIV. MPI and UE corrections to jet measurements and influence on PDF determination and alpha S**  
ÇERÇİ S., Khachatryan V., Sirunyan A., Tumasyan A., Guler Y., EŞKUT E., ÖZDEMİR K., CMS C.  
7th International Workshop on Multiple Partonic Interaction at LHC, Trieste, İtalya, 23 - 27 Ekim 2015
- XV. MPI and UE corrections to jet measurements and influence on PDF determination and alfas**  
ÇERÇİ S., BAKIRCI M. N., SUNAR ÇERÇİ D., KANGAL E. E., GÖKBULUT G., EŞKUT E., DUMANOĞLU İ., POLATÖZ A.,  
KAYIŞ TOPAKSU A., CMS C.  
MPI@LHC 2015, 23 - 27 Kasım 2015
- XVI. Inclusive jet cross section and strong coupling constant measurements at CMS**  
ÇERÇİ S., KHACHATRYAN V., Sirunyan A., HOŞ İ., ÖZDEMİR K., POLATÖZ A., EŞKUT E., SUNAR ÇERÇİ D.,  
Collaboration C.  
9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION (BPU-9), Istanbul, Turkey, 24 -  
27 Ağustos 2015
- XVII. COSMOS - A COMPREHENSIVE SUPER MONTE-CARLO SYSTEM**  
ANSELMO F., DIROSA O., LACOMMARE G., PUSZTASZERI J., VANEIJK B., ALBERTY J., ESKUT E., HATZIFOTIADOU D.,  
MARINO M., MAIDANTCHIK C., et al.  
14TH WORKSHOP OF THE ITALIAN NATL INST FOR NUCLEAR PHYSICS ELOISATION PROJECT - DATA  
STRUCTURES FOR PARTICLE PHYSICS EXPERIMENTS : EVOLUTION OR REVOLUTION, ERICE, İtalya, 11 - 18 Kasım  
1990, ss.70-76

## Desteklenen Projeler

EŞKUT E., BALDAN İ., DEMİROĞLU Z. Ş., Yükseköğretim Kurumları Destekli Proje, DETERMINATION OF THE JET ENERGY SCALE CORRECTIONS FOR THE LOW PT JETS IN PROTON-PROTON COLLISIONS AT  $\sqrt{s} = 13$  TeV WITH THE CMS EXPERIMENT, 2015 - 2020

EŞKUT E., Zorbilmez Ç., Yükseköğretim Kurumları Destekli Proje, MEASUREMENT OF ENERGY DENSITY AS A FUNCTION OF PSEUDORAPIDITY IN PROTON-PROTON COLLISIONS AT  $\sqrt{s} = 13$  TeV WITH THE CMS EXPERIMENT AT THE LHC, 2015 - 2020

EŞKUT E., Yükseköğretim Kurumları Destekli Proje, Proton-Proton çarpışmalarında CMS'de oluşan ikili jet sisteminin çalışılması, 2012 - 2019

EŞKUT E., Yükseköğretim Kurumları Destekli Proje, MEASUREMENTS OF INCLUSIVE LOW-PT JETS CROSS-SECTION AND AZIMUTHAL ANGLE CORRELATION OF JETS WITH LARGE RAPIDITY SEPARATION USING RUN 1 CMS DATA, 2011 - 2019

EŐKUT E., Yksekđretim Kurumları Destekli Proje, Bilimsel Yayın TeŐvik Desteđi, 2017 - 2018

EŐKUT E., BALDAN İ., Yksekđretim Kurumları Destekli Proje, Hadronik İleri Kalorimetre (HF)'de Kullanılan QIE10 Kartlarının Pedestal, CAPID, ICI Testleri, 2016 - 2018

EŐKUT E., Yksekđretim Kurumları Destekli Proje, CMS Deneyinde Higgs bozun ve zelliklerinin llmesi, 2016 - 2017

EŐKUT E., Yksekđretim Kurumları Destekli Proje, CMS Deneyinde Standart Model ve Standart Model tesi Fizik AraŐtırmaları, 2014 - 2015

EŐKUT E., Yksekđretim Kurumları Destekli Proje, VS=7 TeV lik Proton-Proton arpıŐmasında İnksif İleri Jet Tesir Kesiti Hesaplaması, 2011 - 2014

## **Metrikler**

Yayın: 429

Atıf (WoS): 25520

Atıf (Scopus): 21324

H-İndeks (WoS): 69

H-İndeks (Scopus): 78

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