

Prof. AYŞE POLATÖZ

Personal Information

Office Phone: [+90 322 338 6084](tel:+903223386084) Extension: 2480

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

Email: polatoz@cu.edu.tr

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

Address: Çukurova üniversitesi, Fen Edebiyat Fakültesi Fizik Bölümü Balcalı 01330 Adana

International Researcher IDs

ORCID: 0000-0001-9516-0821

Publons / Web Of Science ResearcherID: C-3463-2018

ScopusID: 57221282113

Yoksis Researcher ID: 5148

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1986 - 1992

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 1983 - 1986

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1979 - 1983

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Physics, Atomic and Molecular Physics, Nuclear physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2001 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 1995 - 2001

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 1993 - 1995

Research Assistant, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 1985 - 1993

Academic and Administrative Experience

Cukurova University, 2016 - Continues

Cukurova University, 2016 - Continues

Cukurova University, Fen Edebiyat Fakültesi , Fiizik, 2002 - 2011

Advising Theses

POLATÖZ A., CMS Deneyinde Hadronik Dış(HO) Kalorimetresindeki Peltier Soğutucuların Analizi, Postgraduate, B.Antmen(Student), 2014

POLATÖZ A., CMS Deneyinin HO904 Ve SX5 Test Düzeneklerindeki SiFÇ'lerin Öz Tetikleme Analizi, Postgraduate, Ö.Kara(Student), 2014

POLATÖZ A., Search For A W' Gauge Boson Decaying to WZ in Proton-Proton Collisions at s \sqrt{s} = 7 TeV, Doctorate, A.Adıgüzel(Student), 2014

POLATÖZ A., CMS Deneyindeki HO ve HF Kalorimetreleri İçin Pedestal Analizleri, Postgraduate, S.Türkçapar(Student), 2014

POLATÖZ A., SUSY Search at CMS in Met Plus Jets Topologies at \sqrt{s} =14TeV and Response Comparison of the CMS Calorimeters to Pions Between Monte Carlo and Test Beam, Doctorate, H.Topaklı(Student), 2010

POLATÖZ A., Calculation of the Intercalibration Constants for the Prototype IV of CASTOR Detector, Postgraduate, T.Karaman(Student), 2010

POLATÖZ A., Parçacık Detektörlerinin Tıpta Kullanımı, Postgraduate, M.Oğuz(Student), 2008

POLATÖZ A., CMS (Compact Muon Solenoid) Deneyinde Ağır İyon Fiziği Araştırmaları, Postgraduate, E.Arıkan(Student), 2008

POLATÖZ A., CMS Deneyindeki Süper Simetri Araştırmaları, Postgraduate, A.Adıgüzel(Student), 2007

POLATÖZ A., On the Testing of CMS Tracker Outer Barrel Silicon Microstrip Dedector Modules, Doctorate, K.Söğüt(Student), 2005

POLATÖZ A., CMS Deneyindeki HF Detektörünün Test Verilerinin Analizi, Postgraduate, A.Yetiş(Student), 2004

POLATÖZ A., CMS Deneyindeki HF detektörünün Karakteristiklerinin İncelenmesi, Postgraduate, S.Kayış(Student), 2004

POLATÖZ A., Standart Model Higgs Bozonunun Simülasyonu, Postgraduate, D.Sunar(Student), 2002

POLATÖZ A., CMS Deneyindeki En İleri Kalorimetredwe Kullanılan Liflerin Radyasyon Dayanıklılığı Araştırmaları, Postgraduate, H.Özkurt(Student), 2000

POLATÖZ A., CMS(Compact Müon Selenoid) Deneyinde Kullanılacak olan VFCAL(En İleri Kalorimetre'in Çözünürlüğü, Postgraduate, H.Özdemir(Student), 1999

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at \sqrt{s} =13TeV**
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, vol.857, 2024 (SCI-Expanded)
- II. **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, vol.857, 2024 (SCI-Expanded)
- III. **KS0 and $\Lambda(\Lambda^-)$ two-particle femtosopic correlations in PbPb collisions at $\sqrt{s_{NN}}$ =5.02TeV**
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, vol.857, 2024 (SCI-Expanded)
- IV. **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, vol.19, no.9, 2024 (SCI-Expanded)
- V. **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, vol.19, no.9, 2024 (SCI-Expanded)

- VI. **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, vol.133, no.7, 2024 (SCI-Expanded)
- VII. **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, vol.2024, no.8, 2024 (SCI-Expanded)
- VIII. **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, vol.84, no.8, 2024 (SCI-Expanded)
- IX. **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, vol.110, no.3, 2024 (SCI-Expanded)
- X. **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, vol.855, 2024 (SCI-Expanded)
- XI. **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.
European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- XII. **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, vol.133, no.2, 2024 (SCI-Expanded)
- XIII. **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, vol.133, no.1, 2024 (SCI-Expanded)
- XIV. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XV. **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, vol.110, no.1, 2024 (SCI-Expanded)
- XVI. **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.
Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)

- XVII. **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, vol.110, no.1, 2024 (SCI-Expanded)
- XVIII. **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, vol.87, no.7, 2024 (SCI-Expanded)
- XIX. **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, vol.84, no.7, 2024 (SCI-Expanded)
- XX. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at $\sqrt{s}=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XXI. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7\text{ and }8\text{ TeV}$**
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, vol.132, no.26, 2024 (SCI-Expanded)
- XXII. **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, vol.132, no.24, 2024 (SCI-Expanded)
- XXIII. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXIV. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXV. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXVI. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXVII. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXVIII. **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, vol.109, no.11, 2024 (SCI-Expanded)
- XXIX. **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, vol.853, 2024 (SCI-Expanded)
- XXX. **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, vol.84, no.5, 2024 (SCI-Expanded)
- XXXI. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
- XXXII. **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, vol.19, no.5, 2024 (SCI-Expanded)
- XXXIII. **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, vol.2024, no.5, 2024 (SCI-Expanded)
- XXXIV. **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, vol.109, no.9, 2024 (SCI-Expanded)
- XXXV. **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, vol.109, no.7, 2024 (SCI-Expanded)
- XXXVI. **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, vol.109, no.7, 2024 (SCI-Expanded)
- XXXVII. **Observation of $WW\gamma$ Production and Search for $H\gamma$ Production in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.12, 2024 (SCI-Expanded)

- XXXVIII. **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, vol.132, no.11, 2024 (SCI-Expanded)
- XXXIX. **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, vol.2024, no.3, 2024 (SCI-Expanded)
- XL. **Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at sNN=5.02TeV**
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, vol.850, 2024 (SCI-Expanded)
- XLI. **Search for dark matter particles in W+W- events with transverse momentum imbalance in proton-proton collisions at s = 13 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.3, 2024 (SCI-Expanded)
- XLII. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at s=13TeV**
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, vol.850, 2024 (SCI-Expanded)
- XLIII. **Study of azimuthal anisotropy of Y(1S) mesons in pPb collisions at sNN = 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, vol.850, 2024 (SCI-Expanded)
- XLIV. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical review letters, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)
- XLV. **Higher-order moments of the elliptic flow distribution in PbPb collisions at sNN = 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, vol.2024, no.2, 2024 (SCI-Expanded)
- XLVI. **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, vol.109, no.2, 2024 (SCI-Expanded)
- XLVII. **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, vol.19, no.2, 2024 (SCI-Expanded)
- XLVIII. **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, vol.132, no.4, 2024 (SCI-Expanded)

- XLIX. **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, vol.132, no.2, pp.21803, 2024 (SCI-Expanded)
- L. **Measurement of the τ 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, vol.2024, no.1, 2024 (SCI-Expanded)
- L.I. **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, vol.84, no.1, 2024 (SCI-Expanded)
- L.II. **Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $s_{NN} = 5.02 \text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)
- L.III. **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, vol.84, no.1, 2024 (SCI-Expanded)
- L.IV. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at root $s=13 \text{ TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.812, 2021 (SCI-Expanded)
- L.V. **Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at root $s=13 \text{ TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.812, 2021 (SCI-Expanded)
- L.VI. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at root $s=13 \text{ TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.811, 2020 (SCI-Expanded)
- L.VII. **Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at root $s=13 \text{ TeV}$**
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.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2020 (SCI-Expanded)
- L.VIII. **Measurements of the associated production of a Z boson and b jets in pp collisions at root $s=8 \text{ TeV}$**
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, vol.77, no.11, 2017 (SCI-Expanded)
- L.IX. **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**
POLATÖZ A., KAYIŞ TOPAKSU A., DUMANOĞLU İ., Collaboration C.

- PHYSICS LETTERS B, vol.768, pp.103-129, 2017 (SCI-Expanded)
- LX. **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, vol.768, pp.137-162, 2017 (SCI-Expanded)
- LXI. **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, vol.77, no.4, 2017 (SCI-Expanded)
- LXII. **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, vol.95, no.5, 2017 (SCI-Expanded)
- LXIII. **Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at root s=8TeV**
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, no.2, 2017 (SCI-Expanded)
- LXIV. **The CMS trigger system**
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 INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- LXV. **Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 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, vol.94, no.11, 2016 (SCI-Expanded)
- LXVI. **Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton plus jets final states produced 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.
PHYSICS LETTERS B, vol.762, pp.512-534, 2016 (SCI-Expanded)
- LXVII. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.11, 2016 (SCI-Expanded)
- LXVIII. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 TeV**
Chatrchyan S., Khachtryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brandstetter J., DUMANOĞLU İ., EŞKUT E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.10, pp.1-52, 2016 (SCI-Expanded)
- LXIX. **Search for s channel single top quark production in pp collisions at root s=7 and 8 TeV**
POLATÖZ A., EŞKUT E., Collaboration C.
JOURNAL OF HIGH ENERGY PHYSICS, vol.9, no.27, pp.1-10, 2016 (SCI-Expanded)
- LXX. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root S = 8 TeV**
Khachtryan V., Albert S., Tumasyan A., Wolfgang A., Ece A., Bergauer T., Brandstetter J., Brondolin E., DUMANOĞLU İ., POLATÖZ A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, pp.1-20, 2016 (SCI-Expanded)

- LXXI. **Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width**
POLATÖZ A., EŞKUT E., GÖKBULUT G.
JOURNAL OF HIGH ENERGY PHYSICS, vol.9, no.51, pp.1-25, 2016 (SCI-Expanded)
- LXXII. **Measurements of $t(\bar{t})$ charge asymmetry using dilepton final states 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., Eroo J., et al.
PHYSICS LETTERS B, vol.760, pp.365-386, 2016 (SCI-Expanded)
- LXXIII. **Search for supersymmetry in electroweak production with photons and large missing transverse energy 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., Eroo J., et al.
PHYSICS LETTERS B, vol.759, pp.479-500, 2016 (SCI-Expanded)
- LXXIV. **Measurement of the $W+W^-$ cross section in pp collisions at root $s=8$ TeV and limits on anomalous gauge couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)
- LXXV. **Search for a low-mass pseudoscalar Higgs boson produced in association with a $b(\bar{b})$ pair 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., Eroo J., et al.
PHYSICS LETTERS B, vol.758, pp.296-320, 2016 (SCI-Expanded)
- LXXVI. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in pp collisions at root $s=8$ TeV**
EŞKUT E., POLATÖZ A., DUMANOĞLU İ.
MODERN PHYSICS LETTERS B, vol.757, pp.154-179, 2016 (SCI-Expanded)
- LXXVII. **Forward-backward asymmetry of Drell-Yan lepton pairs 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., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.6, 2016 (SCI-Expanded)
- LXXVIII. **Measurement of the inclusive jet cross section in pp collisions at root $s=2.76$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.5, 2016 (SCI-Expanded)
- LXXIX. **Measurement of the ratio $B(B\text{-}s(0) \rightarrow J/\psi f(0)(980))/B(B\text{-}s(0) \rightarrow J/\psi \phi(1020))$ in pp collisions at root $s=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, vol.756, pp.84-102, 2016 (SCI-Expanded)
- LXXX. **Search for supersymmetry in pp collisions at root $s=8$ TeV in final states with boosted W bosons and b jets using razor variables**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW D, vol.93, no.9, 2016 (SCI-Expanded)
- LXXXI. **Measurement of top quark polarisation in t-channel single top quark production**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2016 (SCI-Expanded)
- LXXXII. **Search for massive WH resonances decaying into the $l \nu b(\bar{b})$ final state at root $s=8$ TeV**

- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.5, 2016 (SCI-Expanded)
- LXXXIII. **Search for new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, vol.755, pp.102-124, 2016 (SCI-Expanded)
- LXXXIV. **Comparison of the Z/gamma* + jets to gamma + jets cross sections in pp collisions at root s = 8 (vol 10, 128, 2015)**
EŞKUT E., POLATÖZ A., DUMANOĞLU İ.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-21, 2016 (SCI-Expanded)
- LXXXV. **Search for W ' -> tb in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brondolin E., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, pp.1-42, 2016 (SCI-Expanded)
- LXXXVI. **Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2016 (SCI-Expanded)
- LXXXVII. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel 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., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.1, 2016 (SCI-Expanded)
- LXXXVIII. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**
KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
PHYSICS LETTERS B, vol.751, pp.143-163, 2015 (SCI-Expanded)
- LXXXIX. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root s=8 TeV**
KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
PHYSICS LETTERS B, vol.750, pp.494-519, 2015 (SCI-Expanded)
- XC. **Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential cross sections in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, vol.749, pp.14-34, 2015 (SCI-Expanded)
- XCI. **Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
JOURNAL OF INSTRUMENTATION, vol.10, 2015 (SCI-Expanded)
- XCII. **Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.
EUROPEAN PHYSICAL JOURNAL C, vol.75, no.5, pp.1-50, 2015 (SCI-Expanded)
- XCIII. **Measurement of the Z gamma production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.

JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-40, 2015 (SCI-Expanded)

- XCIV. Search for Monotop Signatures in Proton-Proton Collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.114, no.10, 2015 (SCI-Expanded)
- XCv. Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF INSTRUMENTATION, vol.10, 2015 (SCI-Expanded)
- XCvI. Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV**
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, vol.74, no.11, 2014 (SCI-Expanded)
- XCvII. 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, vol.74, no.10, pp.1-49, 2014 (SCI-Expanded)
- XCvIII. Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, 2014 (SCI-Expanded)
- XCIX. Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root s=8 TeV**
DUMANOĞLU İ., EŞKUT E., ÖNENGÜT G., POLATÖZ A., KAYIŞ TOPAKSU A.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, pp.1-26, 2014 (SCI-Expanded)
- C. Searches for light- and heavy-flavour three-jet resonances 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, vol.730, pp.193-214, 2014 (SCI-Expanded)
- CI. Modification of jet shapes 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.
PHYSICS LETTERS B, vol.730, pp.243-263, 2014 (SCI-Expanded)
- CII. Measurement of the t(t)-bar production cross section in the dilepton channel in pp collisions at root s = 8 TeV (vol 2, 024, 2014)**
EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., ÖNENGÜT G., POLATÖZ A.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, pp.1-18, 2014 (SCI-Expanded)
- CIII. Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**
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, vol.89, no.1, 2014 (SCI-Expanded)
- CIV. Determination of the top-quark pole mass and strong coupling constant from the t(t)-bar 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.
PHYSICS LETTERS B, vol.728, pp.496-517, 2014 (SCI-Expanded)
- CV. Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C.,

Friedl M., et al.

Journal of High Energy Physics, vol.2014, no.1, 2014 (SCI-Expanded)

- CVI. **Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root 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 D, vol.88, no.11, 2013 (SCI-Expanded)
- CVII. **Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root 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, vol.727, pp.381-402, 2013 (SCI-Expanded)
- CVIII. **Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root 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.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)
- CIX. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
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, vol.111, no.22, 2013 (SCI-Expanded)
- CX. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, vol.726, pp.564-586, 2013 (SCI-Expanded)
- CXI. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 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, vol.111, no.21, 2013 (SCI-Expanded)
- CXII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
JOURNAL OF INSTRUMENTATION, vol.8, 2013 (SCI-Expanded)
- CXIII. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 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, vol.727, pp.57-76, 2013 (SCI-Expanded)
- CXIV. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.10, 2013 (SCI-Expanded)
- CXV. **Interpretation of searches for supersymmetry with simplified models**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.88, no.5, 2013 (SCI-Expanded)
- CXVI. **Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**

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, vol.111, no.10, 2013 (SCI-Expanded)

CXVII. Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root $s=7$ 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 D, vol.88, no.5, 2013 (SCI-Expanded)

CXVIII. Searches for Higgs bosons in pp collisions at root $s=7$ and 8 TeV in the context of four-generation and fermiophobic models

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

PHYSICS LETTERS B, vol.725, pp.36-59, 2013 (SCI-Expanded)

CXIX. Inclusive Search for Supersymmetry Using Razor Variables 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., Eroo J., Fabjan C., et al.

PHYSICAL REVIEW LETTERS, vol.111, no.8, 2013 (SCI-Expanded)

CXX. search for new physics in events with same-sign dileptons and b jets in pp collisions at root $s = 8$ TeV

EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., ÖNENGÜT G., POLATÖZ A.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, pp.1-18, 2013 (SCI-Expanded)

CXXI. Measurement of masses in the $t(\tilde{t})$ system by kinematic endpoints in pp collisions at root $s=7$ TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.73, no.7, 2013 (SCI-Expanded)

CXXII. Search for narrow resonances using the dijet mass spectrum in pp collisions at root $s=8$ TeV

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

PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)

CXXIII. Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV

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

PHYSICS LETTERS B, vol.723, pp.280-301, 2013 (SCI-Expanded)

CXXIV. Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root $s=7$ TeV

POLATÖZ A., DUMANOĞLU İ., EŞKUT E., KAYIŞ TOPAKSU A., Önengüt G.

PHYSICS LETTERS B, vol.718, pp.752-772, 2013 (SCI-Expanded)

CXXV. Measurements of differential jet cross sections in proton-proton collisions at root $s=7$ TeV with the CMS detector

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

PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)

CXXVI. Search for supersymmetry in pp collisions at root $s=7$ TeV in events with a single lepton, jets, and missing transverse momentum

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

EUROPEAN PHYSICAL JOURNAL C, vol.73, no.5, 2013 (SCI-Expanded)

CXXVII. Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root $s=7$ TeV

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

- PHYSICS LETTERS B, vol.722, pp.273-294, 2013 (SCI-Expanded)
- CXXVIII. **Measurement of associated production of vector bosons and top quark-antiquark pairs 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, vol.110, no.17, 2013 (SCI-Expanded)
- CXXIX. **Measurement of differential top-quark-pair production cross sections 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, vol.73, no.3, 2013 (SCI-Expanded)
- CXXX. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks 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, vol.110, no.8, 2013 (SCI-Expanded)
- CXXXI. **Search for contact interactions in mu(+)mu(-) 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.
PHYSICAL REVIEW D, vol.87, no.3, 2013 (SCI-Expanded)
- CXXXII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations 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, vol.110, no.8, 2013 (SCI-Expanded)
- CXXXIII. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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, no.2, 2013 (SCI-Expanded)
- CXXXIV. **Search for supersymmetry in events with photons and low missing transverse energy 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.
PHYSICS LETTERS B, vol.719, pp.42-61, 2013 (SCI-Expanded)
- CXXXV. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN=2.76 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, vol.110, no.4, 2013 (SCI-Expanded)
- CXXXVI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-bar l(+)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, vol.718, pp.1208-1228, 2013 (SCI-Expanded)
- CXXXVII. **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.
PHYSICAL REVIEW C, vol.87, no.1, 2013 (SCI-Expanded)
- CXXXVIII. **Observation of a diffractive contribution to dijet production in proton-proton 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, vol.87, no.1, 2013 (SCI-Expanded)
- CXXXIX. **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, vol.718, no.3, pp.795-814, 2013 (SCI-Expanded)
- CXL. **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, vol.110, no.2, 2013 (SCI-Expanded)
- CXLI. **Studies of jet quenching using isolated-photon plus jet correlations 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, vol.718, no.3, pp.773-794, 2013 (SCI-Expanded)
- CXLII. **Search for flavor changing neutral currents in top quark decays in pp collisions at 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.
PHYSICS LETTERS B, vol.718, pp.1252-1272, 2013 (SCI-Expanded)
- CXLIII. **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, vol.718, no.3, pp.815-840, 2013 (SCI-Expanded)
- CXLIV. **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, vol.718, pp.1229-1251, 2013 (SCI-Expanded)
- CXLV. **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, vol.718, no.2, pp.348-368, 2012 (SCI-Expanded)
- CXLVI. **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.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
- CXLVII. **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.
PHYSICS LETTERS B, vol.718, no.2, pp.307-328, 2012 (SCI-Expanded)
- CXLVIII. **Search for three-jet resonances 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.
PHYSICS LETTERS B, vol.718, no.2, pp.329-347, 2012 (SCI-Expanded)
- CXLIX. **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., Eroe J., Fabjan C., Friedl M., et al.

- EUROPEAN PHYSICAL JOURNAL C, vol.72, no.11, 2012 (SCI-Expanded)
- CL. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root s=0.9, 2.76, and 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, vol.72, no.10, 2012 (SCI-Expanded)
- CLI. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 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, vol.86, no.7, 2012 (SCI-Expanded)
- CLII. **Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-)$ + jets and $e(+/-)e(+/-)$ + 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.
PHYSICS LETTERS B, vol.717, pp.109-128, 2012 (SCI-Expanded)
- CLIII. **Inclusive and differential measurements of the $t(t)$ over-bar charge asymmetry in proton-proton collisions 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.
PHYSICS LETTERS B, vol.717, pp.129-150, 2012 (SCI-Expanded)
- CLIV. **Search for a W' or Techni-rho Decaying into WZ 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, vol.109, no.14, 2012 (SCI-Expanded)
- CLV. **Measurement of the top-quark mass in $t(t)$ over-bar events with dilepton 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., Eroe J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)
- CLVI. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at root s=7 TeV**
Chatrchyan S., Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.17, 2012 (SCI-Expanded)
- CLVII. **Performance of CMS muon reconstruction in pp collision events at root s=7TeV**
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, vol.7, 2012 (SCI-Expanded)
- CLVIII. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.15, 2012 (SCI-Expanded)
- CLIX. **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, vol.109, no.12, 2012 (SCI-Expanded)
- CLX. **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, vol.716, no.1, pp.30-61, 2012 (SCI-Expanded)
- CLXI. **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, vol.716, no.1, pp.103-121, 2012 (SCI-Expanded)
- CLXII. **Measurement of the underlying event in the Drell-Yan process 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.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.9, 2012 (SCI-Expanded)
- CLXIII. **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, vol.86, no.5, 2012 (SCI-Expanded)
- CLXIV. **Search for physics beyond the standard model in events with a Z boson, jets, 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.
PHYSICS LETTERS B, vol.716, no.2, pp.260-284, 2012 (SCI-Expanded)
- CLXV. **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, vol.716, no.1, pp.82-102, 2012 (SCI-Expanded)
- CLXVI. **Measurement of the Electron Charge Asymmetry in Inclusive W 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.
PHYSICAL REVIEW LETTERS, vol.109, no.11, 2012 (SCI-Expanded)
- CLXVII. **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, vol.109, no.7, 2012 (SCI-Expanded)
- CLXVIII. **Measurement of the $\Lambda(b)$ cross section and the $\Lambda(b)$ to $\Lambda(b)$ ratio with J/ψ $\Lambda(b)$ decays in pp collisions at root $s=7$ TeV CMS Collaboration**
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, vol.714, pp.136-157, 2012 (SCI-Expanded)
- CLXIX. **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, vol.715, pp.66-87, 2012 (SCI-Expanded)
- CLXX. **Search for narrow resonances in dilepton mass spectra in pp collisions at root $s=7$ TeV CMS Collaboration**
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, vol.714, pp.158-179, 2012 (SCI-Expanded)
- CLXXI. **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., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.713, pp.408-433, 2012 (SCI-Expanded)
- CLXXII. **Azimuthal Anisotropy of Charged Particles at High Transverse Momenta 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., Eroë J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.2, 2012 (SCI-Expanded)
- CLXXIII. **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, vol.108, no.26, 2012 (SCI-Expanded)
- CLXXIV. **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, vol.108, no.25, 2012 (SCI-Expanded)
- CLXXV. **Measurement of the mass difference between top and antitop quarks**
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, no.6, 2012 (SCI-Expanded)
- CLXXVI. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at root 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, vol.85, no.11, 2012 (SCI-Expanded)
- CLXXVII. **Search for neutral Higgs bosons decaying to tau pairs in pp collisions at root 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, vol.713, no.2, pp.68-90, 2012 (SCI-Expanded)
- CLXXVIII. **Inclusive b-jet production 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, vol.2012, no.4, 2012 (SCI-Expanded)
- CLXXIX. **Search for large extra dimensions in dimuon and dielectron events in pp collisions at root 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, vol.711, no.1, pp.15-34, 2012 (SCI-Expanded)
- CLXXX. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics 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., Eroë J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.5, 2012 (SCI-Expanded)
- CLXXXI. **Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.710, no.2, pp.284-306, 2012 (SCI-Expanded)
- CLXXXII. **Measurement of isolated photon production in pp and PbPb collisions at root 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, vol.710, no.2, pp.256-277, 2012 (SCI-Expanded)
- CLXXXIII. **Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\bar{q})l(\bar{l})$ in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2012 (SCI-Expanded)
- CLXXXIV. **Search for microscopic black holes 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2012 (SCI-Expanded)
- CLXXXV. **Search for the standard model Higgs boson decaying into two photons in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.710, no.3, pp.403-425, 2012 (SCI-Expanded)
- CLXXXVI. **Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.11, 2012 (SCI-Expanded)
- CLXXXVII. **Study of high- $p(T)$ charged particle suppression in PbPb compared to pp collisions at root $s(NN)=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.3, 2012 (SCI-Expanded)
- :LXXXVIII. **Combined results of searches for the standard model 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., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.710, no.1, pp.26-48, 2012 (SCI-Expanded)
- CLXXXIX. **Search for the standard model Higgs boson decaying to $W+W-$ in the fully leptonic final state in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.710, no.1, pp.91-113, 2012 (SCI-Expanded)
- CXC. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.709, pp.28-49, 2012 (SCI-Expanded)
- CXCI. **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., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.11, 2012 (SCI-Expanded)
- CXCII. **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., Eroë J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)
- CXCIII. **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., Eroë J., Fabjan C.,

- Friedl M., et al.
PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
- CXCIV. **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, vol.7, 2012 (SCI-Expanded)
- CXCV. **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, vol.72, no.1, 2012 (SCI-Expanded)
- CXCVI. **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, vol.84, no.11, 2011 (SCI-Expanded)
- CXCVII. **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, vol.2011, no.7, 2011 (SCI-Expanded)
- CXCVIII. **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, vol.107, no.22, 2011 (SCI-Expanded)
- CXCIX. **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, vol.84, no.9, 2011 (SCI-Expanded)
- CC. **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, vol.107, no.20, 2011 (SCI-Expanded)
- CCI. **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, vol.6, 2011 (SCI-Expanded)
- CCII. **Search for B-s(0) -> mu(+)-mu(-) and B-0 -> mu(+)-mu(-) Decays 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, vol.107, no.19, 2011 (SCI-Expanded)
- CCIII. **A search for excited leptons 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, vol.704, no.3, pp.143-162, 2011 (SCI-Expanded)
- CCIV. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)

- CCV. **Measurement of the B-s(0) Production Cross Section with B-s(0) \rightarrow J/psi phi Decays in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)
- CCVI. **Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.703, no.3, pp.246-266, 2011 (SCI-Expanded)
- CCVII. **Search for Three-Jet Resonances in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.10, 2011 (SCI-Expanded)
- CCVIII. **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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.702, no.5, pp.336-354, 2011 (SCI-Expanded)
- CCIX. **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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.9, 2011 (SCI-Expanded)
- CCX. **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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.5, 2011 (SCI-Expanded)
- CCXI. **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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.2, 2011 (SCI-Expanded)
- CCXII. **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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.700, pp.187-206, 2011 (SCI-Expanded)
- CCXIII. **Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Fabjan C., Friedl M., Fruehwirth R., Gheze V. M., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.20, 2011 (SCI-Expanded)
- CCXIV. **Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.20, 2011 (SCI-Expanded)
- CCXV. **First measurement of hadronic event shapes in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.699, pp.48-67, 2011 (SCI-Expanded)
- CCXVI. **Measurement of W+W- production and search for the 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., Eroee J., Fabjan C.,

- Fried M., et al.
PHYSICS LETTERS B, vol.699, pp.25-47, 2011 (SCI-Expanded)
- CCXVII. **Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.698, no.3, pp.196-218, 2011 (SCI-Expanded)
- CCXVIII. **Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.698, no.1, pp.21-39, 2011 (SCI-Expanded)
- CCXIX. **Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.12, 2011 (SCI-Expanded)
- CCXX. **Search for microscopic black hole signatures at the Large Hadron Collider**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.697, no.5, pp.434-453, 2011 (SCI-Expanded)
- CCXXI. **Measurement of the B^+ Production Cross Section in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.11, 2011 (SCI-Expanded)
- CCXXII. **Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.8, 2011 (SCI-Expanded)
- CCXXIII. **First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.695, no.5, pp.424-443, 2011 (SCI-Expanded)
- CCXXIV. **Search for Stopped Gluinos in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.1, 2011 (SCI-Expanded)
- CCXXV. **Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.105, no.26, 2010 (SCI-Expanded)
- CCXXVI. **Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC**
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, vol.2010, no.9, 2010 (SCI-Expanded)
- CCXXVII. **CMS tracking performance results from early LHC operation**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.4, pp.1165-1192, 2010 (SCI-Expanded)
- CCXXVIII. **First measurement of the underlying event activity at the LHC with $\sqrt{s}=0.9$ TeV**

- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, pp.555-572, 2010 (SCI-Expanded)
- CCXXIX. **Measurement of the charge ratio of atmospheric muons with the CMS detector**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al
PHYSICS LETTERS B, vol.692, no.2, pp.83-104, 2010 (SCI-Expanded)
- CCXXX. **Commissioning of the CMS High-Level Trigger with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
- CCXXXI. **CMS Data Processing Workflows during an Extended Cosmic Ray Run**
EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., ÖNENGÜT G., POLATÖZ A.
JOURNAL OF INSTRUMENTATION, vol.5, pp.1-43, 2010 (SCI-Expanded)
- CCXXXII. **Design, performance, and calibration of CMS hadron-barrel calorimeter wedges**
Abdullin S., Abramov V., Acharya B., Adams M., Akchurin N., Akgun U., Anderson E. W., Antchev G., Ayan S., Aydin S., et al
EUROPEAN PHYSICAL JOURNAL C, vol.55, no.1, pp.159-171, 2008 (SCI-Expanded)
- CCXXXIII. **Energy resolution and the linearity of the CMS forward quartz fibre calorimeter pre-production-prototype (PPP-1)**
Ayan A., Akchurin N., Akgun U., Anderson E., Bagoly Z., Bencze G., Bruecken P., Debreczeni G., Dumanoglu I., Eskut E., et al
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.30, no.12, 2004 (SCI-Expanded)
- CCXXXIV. **Radiation-hardness studies of high OH- content quartz fibres irradiated with 500 MeV electrons**
Dumanoglu I., Akchurin N., Akgun U., Ayan S., Bruecken P., Eskut E., Fenyvesi A., Topkasu A., Koca N., Makonyi K., et al
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.490, no.3, pp.444-455, 2002 (SCI-Expanded)
- CCXXXV. **Measurements of inclusive (Λ) over-bar degrees production with large x(F) at the Sp(p) over-barS collider**
Brandt A., Erhan S., Kuzucu A., Medinnis M., Ozdes N., Schlein P., Zeyrek M., Zweizig J., Cheze J., Zsembery J.
NUCLEAR PHYSICS B, vol.519, pp.3-18, 1998 (SCI-Expanded)
- CCXXXVI. **On the differences between high-energy proton and pion showers and their signals in a non-compensating calorimeter**
Akchurin N., Ayan S., Bencze G., Chikin K., Cohn H., Doulas S., Dumanoglu I., Eskut E., Fenyvesi A., Ferrando A., et al
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.408, pp.380-396, 1998 (SCI-Expanded)
- CCXXXVII. **Measurements of single diffraction at $\sqrt{s}=630\text{GeV}$; Evidence for a non-linear $\alpha(t)$ of the pomeron**
Brandt A., Erhan S., Kuzucu A., Lynn D., Medinnis M., Ozdes N., Schlein P., Zeyrek M., Zweizig J., Cheze J., et al
NUCLEAR PHYSICS B, vol.514, pp.3-44, 1998 (SCI-Expanded)
- CCXXXVIII. **Cross section measurements of hard diffraction at the Sp(p) over-barS-collider**
Brandt A., Erhan S., Kuzucu A., Medinnis M., Ozdes N., Schlein P., Zeyrek M., Zweizig J., Cheze J., Zsembery J.
PHYSICS LETTERS B, vol.421, pp.395-404, 1998 (SCI-Expanded)
- CCXXXIX. **EVIDENCE FOR A SUPER-HARD POMERON STRUCTURE**
BRANDT A., ERHAN S., KUZUCU A., MEDINNIS M., OZDES N., SCHLEIN P., ZEYREK M., ZWEIZIG J., CHEZE J., ZSEMBERY J.
PHYSICS LETTERS B, vol.297, pp.417-424, 1992 (SCI-Expanded)

Articles Published in Other Journals

- 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, vol.8, no.1, 2024 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- 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 June 2016, vol.130, pp.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 June 2016, vol.129, pp.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 May - 04 June 2016, vol.125, pp.1001
- IV. **Exocita searches at 13 TeV by CMS**
KİRSANOV M., Khachatryan V., ÖZDEMİR K., ÖNENGÜT G., HOŞ İ., POLATÖZ A., ÇERÇİ S., KAYIŞ TOPAKSU A., CMS C.
Quarks-2016, 28 October 2016, vol.125, pp.2013
- V. **Measurement of forward energy flow at 13 TeV with the CMS Experiment**
ÇERÇİ S., HOŞ İ., ADIGÜZEL A., ÖNENGÜT G., Dozen C., POLATÖZ A., CMS C.
Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016
- VI. **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 October 2015, vol.120, pp.2003
- VII. **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 January 2016, vol.47, pp.1379
- VIII. **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 January 2016, vol.47, pp.1697-1703
- IX. **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 January 2016, vol.47, pp.1697
- X. **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 January 2016, vol.47, pp.1751
- XI. **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 January 2016, vol.47, pp.1365
- XII. **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 January 2016, vol.47, pp.1397

XIII. 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 January 2016, vol.47, pp.1397-1415

XIV. MPI and UE Corrections to jet Measurement and Influence on PDF Determination and alpha s

ÇERÇİ S., KHACHATRYAN V., SİRUNYAN A., HOŞ İ., ÖZDEMİR K., SUNAR ÇERÇİ D., POLATÖZ A., CMS C.

7th International Workshop on Multiple Partonic Interactions at the LHC, 23 - 27 November 2015

XV. Low pT Jet Cross Section Measurement in pp Collisions at s 8 TeV

ÇERÇİ S., KHACHATRYAN V., SİRUNYAN A., ÖZDEMİR K., HOŞ İ., POLATÖZ A., CMS C.

37th International Conference on High Energy Physics (ICHEP), 2 - 09 July 2014, vol.273275, pp.2740-2742

XVI. CMS Underlying Event and Double Parton Scattering Monte Carlo Tunes

SUNAR ÇERÇİ D., KHACHATRYAN V., SİRUNYAN A., ÖZDEMİR K., HOŞ İ., POLATÖZ A., CMS C.

7th International Workshop on Multiple Partonic Interactions at the LHC, 23 - 27 November 2015

XVII. MPI and UE corrections to jet measurements and influence on PDF determination and alpha s

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 November 2015

XVIII. Forward and small x QCD physics results from CMS experiment at LHC

SUNAR ÇERÇİ D., KHACHATRYAN V., SİRUNYAN A., HOŞ İ., ÖZDEMİR K., POLATÖZ A., CMS C.

9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION (BPU-9), Istanbul, Turkey, 24 - 27 August 2015

XIX. Inclusive jet cross section and strong coupling constant measurements at CMS

ÇERÇİ S., KHACHATRYAN V., SİRUNYAN 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 August 2015

Supported Projects

POLATÖZ A., Anagül S., Project Supported by Higher Education Institutions, CMS Dedektörünün 2 Aşama Yenileme Projesindeki Çok Tanecikli Kalorimetre HGCAL de Kullanılması Planlanan Silikon Sensörlerin Test Verilerinin Analizi, 2018 - 2020

POLATÖZ A., AĞYEL D., Project Supported by Higher Education Institutions, CMS DEDEKTÖRÜNÜN HADRONİK KAPAK KALORİMETRESİNDEKİ SİLİKON FOTO-ÇOĞALTICILARIN PERFORMANS ANALİZİ, 2018 - 2019

POLATÖZ A., Dözen Altuntaş c., Project Supported by Higher Education Institutions, MEASUREMENT OF B_S⁰ MESON MASS SPECTRA IN PROTON-PROTON AND LEAD-LEAD COLLISION AT $\sqrt{s}=5.02$ TeV, 2011 - 2019

POLATÖZ A., Project Supported by Higher Education Institutions, Yayın Teşvik Desteği, 2017 - 2018

POLATÖZ A., Project Supported by Higher Education Institutions, 8 TeV'lik pp çarpışmalarında süpersimetrik parçacık Araştırmaları, 2016 - 2017

POLATÖZ A., Project Supported by Higher Education Institutions, CMS Deneyinde Süpersimetri Araştırmaları, 2014 - 2015

POLATÖZ A., Project Supported by Higher Education Institutions, CMS Deneyinin Hadronik Dış (HO) Kalorimetresindeki Peltier Soğutucuların Analizi, 2013 - 2014

POLATÖZ A., Project Supported by Higher Education Institutions, CMS Deneyinin H0904 ve SX5 Test Düzeneklerindeki SiFç?lerin Öz Tetikleme Analizi, 2013 - 2014

POLATÖZ A., Project Supported by Higher Education Institutions, CMS DENEYİNDEKİ HO VE HF KALORİMETRELERİ İÇİN PEDESTAL ANALİZLERİ, 2013 - 2014

POLATÖZ A., Project Supported by Higher Education Institutions, CMS Deneyinde W' Ayar Bozonunun Araştırılması,

2011 - 2014

Metrics

Publication: 259

Citation (WoS): 20760

Citation (Scopus): 14551

H-Index (WoS): 62

H-Index (Scopus): 68