

Dr. Öğr. Üyesi VAEL HAJAHMAD

Kişisel Bilgiler

Cep Telefonu: [+90 534 835 0816](tel:+905348350816)

E-posta: whahmad@erzincan.edu.tr

Web: <https://www.scopus.com/authid/detail.uri?authorId=35221758100>

Posta Adresi: Erzincan Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü. Yalnızbağ Kampüsü Erzincan/Türkiye.

Uluslararası Araştırmacı ID'leri

ScholarID: SO4cQIwAAAAJ

ORCID: 0000-0003-1491-0446

Publons / Web Of Science ResearcherID: E-6738-2016

ScopusID: 35221758100

Yoksis Araştırmacı ID: 229544

Eğitim Bilgileri

Doktora, Rheinisch-Westfaelische Technische Hochschule Aachen, III. Physikalisches Institut B, Physics / High Energy Physics, Almanya 2008 - 2013

Yüksek Lisans, Halep Üniversitesi, Faculty Of Sciences/ Department Of Physics, Physics / Radiation Physics, Suriye 2003 - 2004

Lisans, Halep Üniversitesi, Faculty Of Sciences/ Department Of Mathematics & Physics, Mathematics & Physics, Suriye 1999 - 2003

Yabancı Diller

Almanca, C1 İleri

Türkçe, B2 Orta Üstü

İngilizce, C1 İleri

Arapça, C1 İleri

Yaptığı Tezler

Doktora, Search for Top Quark Pair Resonances with the CMS Detector at the LHC, Rheinisch-Westfaelische Technische Hochschule Aachen, Faculty Of Mathematics, Informatics And Natural Sciences, Physics / High Energy & Particle Physics, 2013

Yüksek Lisans, Thickness Measurements of Thin Foils using Alpha Particles, Halep Üniversitesi, Faculty Of Sciences, Physics / Nuclear Physics, 2004

Araştırma Alanları

Fizik, Nükleer Fizik, Parçacık fiziği ve nükleer fizikte deneysel yöntemler ve enstrümantasyon, Temel Parçacıklar ve Alanlar , Genel alan ve parçacık teorisi, Özel parçacıkların özellikleri, Özel reaksiyonlar ve fenomenoloji, Özel teoriler ve etkileşme modelleri, parçacık sistematığı, Temel Bilimler

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Erzincan Binali Yıldırım Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2014 - Devam Ediyor
Yrd. Doç. Dr., Erzincan Binali Yıldırım Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2014 - 2018

Verdiği Dersler

Termodinamik ve İstatistik Fiziği, Lisans, 2019 - 2020
KUANTUM FİZİĞİ II, Lisans, 2019 - 2020
Temel Parçacıklar Fiziği, Lisans, 2019 - 2020
BİLGİSAYAR UYGULAMALARI , Lisans, 2017 - 2018
İleri Akademik İngilizce, Yüksek Lisans, 2017 - 2018
TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI, Lisans, 2017 - 2018
Veri Analizi ve Programlama (C++, Matlab, Mathematica), Yüksek Lisans, 2017 - 2018
Temel Bilgisayar 2, Lisans, 2017 - 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)
- II. **Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the μbb and τbb 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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, cilt.19, sa.2, 2024 (SCI-Expanded)
- VII. **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)

- VIII. **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)
- IX. **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, 2024 (SCI-Expanded)
- X. **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)
- XI. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
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)
- XII. **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, cilt.2024, sa.1, 2024 (SCI-Expanded)
- XIII. **Measurement of the top quark mass using a profile likelihood approach with the lepton + jets final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
European Physical Journal C, cilt.83, sa.10, 2023 (SCI-Expanded)
- XIV. **A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
European Physical Journal C, cilt.83, sa.10, 2023 (SCI-Expanded)
- XV. **Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the Formula Presented final state 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.108, sa.7, 2023 (SCI-Expanded)
- XVI. **Measurement of the Dependence of the Hadron Production Fraction Ratios f_s/f_u and f_d/f_u on B Meson Kinematic Variables 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 Letters, cilt.131, sa.12, 2023 (SCI-Expanded)
- XVII. **Search for Exotic Higgs Boson Decays Formula Presented with Events Containing Two Merged Diphotons 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 Letters, cilt.131, sa.10, 2023 (SCI-Expanded)

- XVIII. **Search for a vector-like quark $T' \rightarrow tH$ via the diphoton decay mode of the Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.9, 2023 (SCI-Expanded)
- XIX. **A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer**
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.83, sa.9, 2023 (SCI-Expanded)
- XX. **Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review D, cilt.108, sa.5, 2023 (SCI-Expanded)
- XXI. **Observation of the Rare Decay of the η Meson to Four Muons**
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.131, sa.9, 2023 (SCI-Expanded)
- XXII. **Observation of Same-Sign WW Production from Double Parton Scattering 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 Letters, cilt.131, sa.9, 2023 (SCI-Expanded)
- XXIII. **Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review D, cilt.108, sa.5, 2023 (SCI-Expanded)
- XXIV. **Search for Higgs Boson Decay to a Charm Quark-Antiquark Pair 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 Letters, cilt.131, sa.6, 2023 (SCI-Expanded)
- XXV. **Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
Physical Review Letters, cilt.131, sa.5, 2023 (SCI-Expanded)
- XXVI. **Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, cilt.83, sa.8, 2023 (SCI-Expanded)
- XXVII. **Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson**
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.108, sa.3, 2023 (SCI-Expanded)
- XXVIII. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the $\tau\tau$ final state**

- Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physical Review D, cilt.108, sa.3, 2023 (SCI-Expanded)
- XXIX. **Azimuthal correlations in Z +jets events 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., Frühwirth R., Jeitler M., et al.
European Physical Journal C, cilt.83, sa.8, 2023 (SCI-Expanded)
- XXX. **Measurement of the electroweak production of Formula Presented in association with two jets 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.108, sa.3, 2023 (SCI-Expanded)
- XXXI. **Search for Nonresonant Pair Production of Highly Energetic Higgs Bosons Decaying to Bottom Quarks**
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.131, sa.4, 2023 (SCI-Expanded)
- XXXII. **Search for Higgs Boson and Observation of Z Boson through Their Decay into a Charm Quark-Antiquark Pair in Boosted Topologies in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.131, sa.4, 2023 (SCI-Expanded)
- XXXIII. **Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at $s=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.842, 2023 (SCI-Expanded)
- XXXIV. **Precision measurement of the Z boson invisible width in pp collisions at $s=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.842, 2023 (SCI-Expanded)
- XXXV. **Measurement of the $B_s \rightarrow \mu^+\mu^-$ decay properties and search for the $B^0 \rightarrow \mu^+\mu^-$ decay in proton-proton collisions at $s=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.842, 2023 (SCI-Expanded)
- XXXVI. **Search for electroweak production of charginos and neutralinos at $s=13\text{TeV}$ in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.842, 2023 (SCI-Expanded)
- XXXVII. **Probing Heavy Majorana Neutrinos and the Weinberg Operator through Vector Boson Fusion Processes 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 Letters, cilt.131, sa.1, 2023 (SCI-Expanded)
- XXXVIII. **Search for CP violating top quark couplings in pp collisions at $\sqrt{s} = 13\text{ TeV}$**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- XXXIX. **Search for direct pair production of supersymmetric partners of τ leptons in the final state with two**

hadronically decaying τ leptons and missing transverse momentum 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., Frühwirth R., Jeitler M., et al.

Physical Review D, cilt.108, sa.1, 2023 (SCI-Expanded)

- XL. **Search for narrow resonances in the Formula Presented-tagged dijet mass spectrum in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review D, cilt.108, sa.1, 2023 (SCI-Expanded)
- XLII. **Search for CP violation in $t\bar{t}H$ and tH production in multilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.7, 2023 (SCI-Expanded)
- XLIII. **CMS pythia 8 colour reconnection tunes based on underlying-event data**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, cilt.83, sa.7, 2023 (SCI-Expanded)
- XLIV. **Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.
European Physical Journal C, cilt.83, sa.7, 2023 (SCI-Expanded)
- XLV. **Observation of electroweak $W+W-$ pair production in association with two jets in proton-proton collisions at $s=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.841, 2023 (SCI-Expanded)
- XLVI. **Search for CP violation using (Formula presented.) events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)
- XLVII. **Search for long-lived particles decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.5, 2023 (SCI-Expanded)
- XLVIII. **Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)
- XLIX. **Search for heavy resonances and quantum black holes in $e\mu$, $e\tau$, and $\mu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Journal of High Energy Physics, cilt.2023, sa.5, 2023 (SCI-Expanded)
- XLX. **Search for nonresonant Higgs boson pair production in the four leptons plus twob jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**

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

Journal of High Energy Physics, cilt.2023, sa.6, 2023 (SCI-Expanded)

- L. **Observation of triple J/ψ meson production in proton-proton collisions**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Nature Physics, cilt.19, sa.3, ss.338-350, 2023 (SCI-Expanded)
- LI. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Nature Physics, cilt.18, sa.11, ss.1329-1334, 2022 (SCI-Expanded)
- LII. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, cilt.2022, sa.9, 2022 (SCI-Expanded)
- LIII. **Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review Letters, cilt.129, sa.8, 2022 (SCI-Expanded)
- LIV. **Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Journal of High Energy Physics, cilt.2022, sa.8, 2022 (SCI-Expanded)
- LV. **Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review Letters, cilt.129, sa.2, 2022 (SCI-Expanded)
- LVI. **Search for Resonances Decaying to Three W Bosons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review Letters, cilt.129, sa.2, 2022 (SCI-Expanded)
- LVII. **Measurement of the inclusive and differential WZ production cross sections, polarization angles, and triple gauge couplings in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, cilt.2022, sa.7, 2022 (SCI-Expanded)
- LVIII. **Search for resonances decaying to three W bosons in the hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review D, cilt.106, sa.1, 2022 (SCI-Expanded)
- LIX. **Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, cilt.2022, sa.7, 2022 (SCI-Expanded)
- LX. **Identification of hadronic tau lepton decays using a deep neural network**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R.,

Jeitler M., Krammer N., et al.

Journal of Instrumentation, cilt.17, sa.7, 2022 (SCI-Expanded)

- LXI. **Search for heavy resonances decaying to $Z(\nu\nu^*)V(qq^*)$ in proton-proton collisions at $s = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review D, cilt.106, sa.1, 2022 (SCI-Expanded)
- LXII. **Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- LXIII. **Search for charged-lepton flavor violation in top quark production and decay in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, cilt.2022, sa.6, 2022 (SCI-Expanded)
- LXIV. **Analysis of the CP structure of the Yukawa coupling between the Higgs boson and τ leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- LXV. **Search for resonant production of strongly coupled dark matter in proton-proton collisions at 13 TeV**
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- LXVI. **Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $s = 13$ TeV**
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- LXVII. **Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV**
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- LXVIII. **Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- LXIX. **Observation of $B^0 \rightarrow \psi(2S)K^0S\pi^+\pi^-$ and $B^0S \rightarrow \psi(2S)K^0S$ decays**
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European Physical Journal C, cilt.82, sa.5, 2022 (SCI-Expanded)
- LXX. **Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- LXXI. **Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with**

leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV

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LXXII. Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV

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LXXIII. Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., Lechner L., et al.

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LXXIV. Precision measurement of the W boson decay branching fractions in proton-proton collisions at $s = 13$ TeV

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LXXV. Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV

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LXXVI. Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

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LXXVII. Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV

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LXXVIII. Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream

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

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LXXIX. Measurement of the inclusive $t \bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV

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

Journal of High Energy Physics, cilt.2022, sa.4, 2022 (SCI-Expanded)

LXXX. Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

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LXXXI. Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions

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- Physical Review Letters, cilt.128, sa.12, 2022 (SCI-Expanded)
- LXXXII. **Search for $W\gamma$ resonances in proton-proton collisions at $s=13$ TeV using hadronic decays of Lorentz-boosted W bosons**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- LXXXIII. **Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, cilt.2022, sa.3, 2022 (SCI-Expanded)
- LXXXIV. **Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., Lechner L., et al.
European Physical Journal C, cilt.82, sa.3, 2022 (SCI-Expanded)
- LXXXV. **A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV**
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- LXXXVI. **Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- LXXXVII. **Measurement of $W\pm\gamma$ differential cross sections in proton-proton collisions at $s = 13$ TeV and effective field theory constraints**
Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- LXXXVIII. **Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of τ Leptons in pp Collisions at $s = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review Letters, cilt.128, sa.8, 2022 (SCI-Expanded)
- LXXXIX. **Fragmentation of jets containing a prompt J/ψ meson in PbPb and pp collisions at $s_{NN}=5.02$ TeV**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., et al.
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- XC. **Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- XCI. **Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- XCII. **Search for heavy resonances decaying to WW , WZ , or WH boson pairs in a final state consisting of a lepton and a large-radius jet in proton-proton collisions at $s = 13$ TeV**

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XCIII. Search for long-lived particles decaying to leptons with large impact parameter in proton–proton collisions at $\sqrt{s}=13\text{TeV}$

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XCIV. Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s_{NN}}=5.02\text{TeV}$

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XCV. Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$

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XCVI. Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions

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XCVII. Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $s = 13\text{TeV}$

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XCVIII. Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13\text{TeV}$

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XCIX. Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13\text{TeV}$ in the fully hadronic final state

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C. Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13\text{TeV}$

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CI. Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13\text{TeV}$

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CII. Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $s = 5.02\text{TeV}$ Using Leptonic Decays

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- CIII. **Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CIV. **Measurement of differential $t\bar{t}$ production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at $s = 13$ TeV MEASUREMENT of DIFFERENTIAL ... A. TUMASYAN et al.**
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- CV. **Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau b\bar{b}$ final state at 13 TeV**
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- CVI. **Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- CVII. **Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- CVIII. **Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- CIX. **Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 13 TeV**
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- CX. **Measurements of the $pp \rightarrow W\pm \gamma\gamma$ and $pp \rightarrow Z\gamma\gamma$ cross sections at $\sqrt{s} = 13$ TeV and limits on anomalous quartic gauge couplings**
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- CXI. **Measurement of the electroweak production of $Z\gamma$ and two jets in proton-proton collisions at $s = 13$ TeV and constraints on anomalous quartic gauge couplings**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- CXII. **Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $s_{NN} = 5.02$ TeV**
Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- CXIII. **First measurement of the cross section for top quark pair production with additional charm jets**

using dileptonic final states in pp collisions at $s=13\text{TeV}$

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- CXIV. **Search for W' bosons decaying to a top and a bottom quark at $s=13\text{TeV}$ in the hadronic final state**
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- CXV. **Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z -Boson Yields and Azimuthal Anisotropy at $s_{NN} = 5.02\text{ TeV}$**

Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

Physical Review Letters, cilt.127, sa.10, 2021 (SCI-Expanded)

- CXVI. **Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $s = 13\text{ TeV}$**

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

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- CXVII. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state**

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

Physical Review D, cilt.104, sa.5, 2021 (SCI-Expanded)

- CXVIII. **Search for top squark production in fully hadronic final states in proton-proton collisions at $s = 13\text{ TeV}$**

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

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- CXIX. **Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $s=13\text{ TeV}$**

Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

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- CXX. **Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at $s=13\text{TeV}$**

Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.819, 2021 (SCI-Expanded)

- CXXI. **Measurement of the azimuthal anisotropy of [Formula presented] and [Formula presented] mesons in PbPb collisions at $s_{NN} = 5.02\text{TeV}$**

Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.

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- CXXII. **Search for lepton-flavor violating decays of the Higgs boson in the $\mu\tau$ and $e\tau$ final states in proton-proton collisions at $s = 13\text{ TeV}$**

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

Physical Review D, cilt.104, sa.3, 2021 (SCI-Expanded)

- CXXIII. **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $s = 13\text{ TeV}$**

Sirunyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A.,

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- CXXXIV. **Hard color-singlet exchange in dijet events in proton-proton collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- CXXXV. **Search for long-lived particles using displaced jets in proton-proton collisions at $s = 13$ TeV**
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- CLXI. **Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $s=13$ TeV**
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- CLXVIII. **Measurements of $(t\bar{t})$ over-bar H Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**
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- CLXXIII. **The production of isolated photons in PbPb and pp collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CLXXXIII. **Determination of the strong coupling constant $\alpha(S)(m(Z))$ from measurements of inclusive W⁺/⁻ and Z boson production cross sections in proton-proton collisions at root s=7 and 8 TeV**
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- CLXXXVII. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**
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- CLXXXIX. **Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top**

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- CXC. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at root s=13 TeV**
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 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Flechl M., et al.
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- CCLXI. **Search for $W' \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV**
 The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCLXII. **A search for pair production of new light bosons decaying into muons**
 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCLXIII. **Search for neutral MSSM Higgs bosons decaying to $\mu+\mu-$ in pp collisions at $\sqrt{s}=7$ and 8 TeV**
 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCLXIV. **Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV** SEARCH for RESONANT $t\bar{t}$ PRODUCTION in ... V. KHACHATRYAN et al.
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- CCLXV. **Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCLXVI. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXVII. **Study of W boson production in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXVIII. **Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8$ TeV and decaying to $\mu+\mu^-$ as a function of transverse momentum and rapidity**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXIX. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCLXX. **Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXXI. **Search for supersymmetry with photons in pp collisions at $\sqrt{s}=8$ TeV**
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- CCLXXII. **Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXXIII. **Measurements of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ differential cross sections in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXXIV. **Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs**

in proton-proton collisions at 8 TeV

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

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- CCLXXV. **Search for lepton-flavour-violating decays of the Higgs boson**
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- CCLXXVI. **Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCLXXVII. **Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at (Formula presented.) TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- :CLXXVIII. **Measurements of the ZZ production cross sections in the $2l2\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV and combined constraints on triple gauge couplings**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXXIX. **Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and p Pb collisions**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Flechl M., et al.
Physical Review C - Nuclear Physics, cilt.92, sa.3, 2015 (SCI-Expanded)
- CCLXXX. **Search for narrow high-mass resonances in proton-proton collisions at $s=8$ TeV decaying to a Z and a Higgs boson**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCLXXXI. **Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $l+l-bb^-$ final states**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.748, ss.221-243, 2015 (SCI-Expanded)
- CCLXXXII. **Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s}= 8\text{TeV}$**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
Journal of High Energy Physics, cilt.2015, sa.9, 2015 (SCI-Expanded)
- :CLXXXIII. **Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $s = 8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
Journal of Instrumentation, cilt.10, sa.8, 2015 (SCI-Expanded)

- :CLXXXIV. **Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $s=8$ TeV**
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- CCLXXXV. **Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV**
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- :CLXXXVI. **Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s}=8$ TeV**
 The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CLXXXVII. **Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV**
 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
 Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.92, sa.1, 2015 (SCI-Expanded)
- :LXXXVIII. **Measurement of diffractive dissociation cross sections in pp collisions at $s = 7$ TeV**
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- :CLXXXIX. **Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s}=7$ TeV**
 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCXC. **Search for heavy Majorana neutrinos in $\mu\pm\mu\pm +$ jets events in proton-proton collisions at $s=8$ TeV**
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- CCXCI. **Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $s=8$ TeV**
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- CCXCII. **Measurement of the cross section ratio $\sigma t\bar{t}b\bar{b}^- / \sigma t\bar{t}j\bar{j}$ in pp collisions at $s=8$ TeV**
 Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
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- CCXCIII. **Evidence for Collective Multiparticle Correlations in p-Pb Collisions**
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- CCXCIV. **Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure**

- The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.
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- CCXCV. **Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCXCVI. **Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCXCVII. **Observation of the rare $B^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data**
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- CCXCVIII. **Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at (Formula Presented.) TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCXCIX. **Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.
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- CCC. **Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV**
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- CCCI. **Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCCII. **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., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
European Physical Journal C, cilt.75, sa.5, 2015 (SCI-Expanded)
- CCCI. **Searches for supersymmetry using the MT2 variable in hadronic events produced in pp collisions at 8 TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.
Journal of High Energy Physics, cilt.2015, sa.5, 2015 (SCI-Expanded)
- CCCI. **Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
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- CCCV. **Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
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- CCCVI. **Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments**
Aad G., Abbott B., Abdallah J., Abdinov O., Aben R., Abolins M., Abouzeid O., Abramowicz H., Abreu H., Abreu R., et al.
Physical Review Letters, cilt.114, sa.19, 2015 (SCI-Expanded)
- CCCVII. **Measurement of J/ψ and $\psi(2S)$ prompt double-differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
Physical Review Letters, cilt.114, sa.19, 2015 (SCI-Expanded)
- CCCVIII. **Search for a standard model-like Higgs boson in the $\mu+\mu-$ and $e+e-$ decay channels 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.
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- CCCIX. **Search for dark matter, extra dimensions, and unparticles in monojet events in proton–proton collisions at $\sqrt{s} = 8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
European Physical Journal C, cilt.75, sa.5, 2015 (SCI-Expanded)
- CCCX. **Measurement of the inclusive 3-jet production differential cross section in proton–proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
European Physical Journal C, cilt.75, sa.5, ss.1-24, 2015 (SCI-Expanded)
- CCCXI. **Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
European Physical Journal C, cilt.75, sa.5, 2015 (SCI-Expanded)
- CCCXII. **Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.743, ss.503-525, 2015 (SCI-Expanded)
- CCCXIII. **Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Journal of High Energy Physics, cilt.2015, sa.4, ss.1-49, 2015 (SCI-Expanded)
- CCCXIV. **Search for decays of stopped long-lived particles produced in proton–proton collisions at $\sqrt{s} = 8$, TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
European Physical Journal C, cilt.75, sa.4, ss.1-22, 2015 (SCI-Expanded)
- CCCXV. **Search for physics beyond the standard model in events with two leptons, jets, and missing**

transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV

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

Journal of High Energy Physics, cilt.2015, sa.4, 2015 (SCI-Expanded)

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

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

Journal of High Energy Physics, cilt.2015, sa.4, 2015 (SCI-Expanded)

CCCXVII. Measurements of differential and double-differential Drell–Yan cross sections in proton–proton collisions at $\sqrt{s} = 8$ TeV

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

European Physical Journal C, cilt.75, sa.4, ss.1-27, 2015 (SCI-Expanded)

CCCXVIII. Search for supersymmetry using razor variables in events with b -tagged jets in pp collisions at $s = 8$ TeV

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.91, sa.5, 2015 (SCI-Expanded)

CCCXIX. Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $s = 8$ TeV

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.91, sa.5, 2015 (SCI-Expanded)

CCCXX. Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $s = 8$ TeV

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.91, sa.5, 2015 (SCI-Expanded)

CCCXXI. Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $s = 7$ TeV

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.91, sa.5, 2015 (SCI-Expanded)

CCCXXII. Search for monotop signatures in proton-proton collisions at $s = 8$ TeV

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

Physical Review Letters, cilt.114, sa.10, 2015 (SCI-Expanded)

CCCXXIII. Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.742, ss.200-224, 2015 (SCI-Expanded)

CCCXXIV. Search for displaced supersymmetry in events with an electron and a muon with large impact parameters

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

Physical Review Letters, cilt.114, sa.6, 2015 (SCI-Expanded)

CCCXXV. Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV

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

- Frühwirth R., et al.
Journal of Instrumentation, cilt.10, sa.2, 2015 (SCI-Expanded)
- CCCXXVI. **Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $s=7$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.741, ss.12-37, 2015 (SCI-Expanded)
- CCCXXVII. **Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., Ghete V., et al.
Physical Review Letters, cilt.114, sa.5, 2015 (SCI-Expanded)
- :CCXXVIII. **Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $s = 8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.91, sa.1, 2015 (SCI-Expanded)
- CCCXXIX. **Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.
Journal of High Energy Physics, cilt.2015, sa.1, 2015 (SCI-Expanded)
- CCCXXX. **Measurement of the $pp \rightarrow ZZ$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $s=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.740, ss.250-272, 2015 (SCI-Expanded)
- CCCXXXI. **Search for new resonances decaying via WZ to leptons in proton-proton collisions at $s=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.740, ss.83-104, 2015 (SCI-Expanded)
- CCCXXXII. **Measurement of the production cross section ratio $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$ in pp collisions at $s=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.743, ss.383-402, 2015 (SCI-Expanded)
- :CCXXXIII. **Measurement of the ratio of the production cross sections times branching fractions of $B_{c\pm} \rightarrow J/\psi \pi^{\pm}$ and $B_{\pm} \rightarrow J/\psi K^{\pm}$ and (Formula presented.) in pp collisions at (Formula presented.) TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Journal of High Energy Physics, cilt.2015, sa.1, 2015 (SCI-Expanded)
- :CCXXXIV. **Search for disappearing tracks in proton-proton collisions at TeV.**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Frühwirth R., et al.
Journal of High Energy Physics, cilt.2015, sa.1, 2015 (SCI-Expanded)
- CCCXXXV. **Study of Z production in PbPb and pp collisions at (Formula presented.) TeV in the dimuon and dielectron decay channels**

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

Journal of High Energy Physics, cilt.2015, sa.3, 2015 (SCI-Expanded)

:CCXXXVI. **Measurement of electroweak production of two jets in association with a Z boson in proton–proton collisions at $\sqrt{s}=8\text{TeV}$**

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

European Physical Journal C, cilt.75, sa.2, 2015 (SCI-Expanded)

CCXXXVII. **Measurement of prompt $\psi(2S)$ to J/ψ yield ratios in Pb-Pb and p - p collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$**

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

Physical Review Letters, cilt.113, sa.26, 2014 (SCI-Expanded)

:CXXXVIII. **Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV**

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.11, 2014 (SCI-Expanded)

:CCXXXIX. **Search for pair production of third-generation scalar leptoquarks and top squarks in proton–proton collisions at [Formula presented] TeV**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.739, ss.229-249, 2014 (SCI-Expanded)

CCCXL. **Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=8\text{TeV}$ in dilepton final states containing one τ lepton**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.739, ss.23-43, 2014 (SCI-Expanded)

CCCXLI. **Search for supersymmetry with razor variables in pp collisions at $\sqrt{s}=7\text{TeV}$**

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

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CCCXLII. **CMS Collaboration**

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

Nuclear Physics A, cilt.932, ss.595-620, 2014 (SCI-Expanded)

CCCXLIII. **Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.9, 2014 (SCI-Expanded)

CCCXLIV. **Search for heavy neutrinos and W bosons with right-handed couplings in proton–proton collisions at (Formula presented.)**

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

European Physical Journal C, cilt.74, sa.11, 2014 (SCI-Expanded)

CCCXLV. **Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7\text{TeV}$**

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

- European Physical Journal C, cilt.74, sa.11, ss.1-30, 2014 (SCI-Expanded)
- CCCXLVI. **CMS Collaboration**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Nuclear Physics A, cilt.931, ss.1241-1265, 2014 (SCI-Expanded)
- CCCXLVII. **Measurement of pseudorapidity distributions of charged particles in proton–proton collisions at (Equation Present) TeV by the CMS and TOTEM experiments**
The CMS and TOTEM Collaborations C., Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
European Physical Journal C, cilt.74, sa.10, ss.1-26, 2014 (SCI-Expanded)
- :CCXLVIII. **Observation of the diphoton decay of the Higgs boson and measurement of its properties**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
European Physical Journal C, cilt.74, sa.10, ss.1-49, 2014 (SCI-Expanded)
- CCCXLIX. **Measurement of the ratio of inclusive jet cross sections using the anti- k T algorithm with radius parameters $R=0.5$ and 0.7 in pp collisions at $s = 7\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.7, 2014 (SCI-Expanded)
- CCCL. **Evidence of b -jet quenching in PbPb collisions at $s_{NN} = 2.76\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physical Review Letters, cilt.113, sa.13, 2014 (SCI-Expanded)
- CCCLI. **Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.736, ss.64-85, 2014 (SCI-Expanded)
- CCCLII. **Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $s=8\text{ TeV}$**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.736, ss.33-57, 2014 (SCI-Expanded)
- CCCLIII. **Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8\text{ TeV}$**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.736, ss.371-397, 2014 (SCI-Expanded)
- CCCLIV. **Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**
The CMS Collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.9, 2014 (SCI-Expanded)
- CCCLV. **Measurement of top quark–antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8\text{ TeV}$**
The CMS Collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.9, 2014 (SCI-Expanded)
- CCCLVI. **Search for $WW\gamma$ and $WZ\gamma$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s = 8\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C.,

- Friedl M., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.3, 2014 (SCI-Expanded)
- CCCLVII. **Search for anomalous production of events with three or more leptons in pp collisions at $s = 8\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.3, 2014 (SCI-Expanded)
- CCCLVIII. **Measurement of jet fragmentation in PbPb and pp collisions at $s_{NN} = 2.76\text{ TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physical Review C - Nuclear Physics, cilt.90, sa.2, 2014 (SCI-Expanded)
- CCCLIX. **Search for jet extinction in the inclusive jet-pT spectrum from proton-proton collisions at $s = 8\text{TeV}$**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.3, 2014 (SCI-Expanded)
- CCCLX. **Measurement of the muon charge asymmetry in inclusive $pp \rightarrow w+X$ production at $s = 7\text{TeV}$ and an improved determination of light parton distribution functions**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.90, sa.3, 2014 (SCI-Expanded)
- CCCLXI. **Measurement of WZ and ZZ production in pp collisions at (Formula presented.) in final states with b-tagged jets**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.8, ss.1-22, 2014 (SCI-Expanded)
- CCCLXII. **Measurement of jet multiplicity distributions in (Formula presented.) production in pp collisions at (Formula presented.)**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.8, ss.1-29, 2014 (SCI-Expanded)
- CCCLXIII. **Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.8, ss.1-35, 2014 (SCI-Expanded)
- CCCLXIV. **Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s} = 7\text{ TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.735, ss.204-225, 2014 (SCI-Expanded)
- CCCLXV. **Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
European Physical Journal C, cilt.74, sa.7, 2014 (SCI-Expanded)
- CCCLXVI. **Observation of a peaking structure in the $J/\psi\phi$ mass spectrum from $B^{\pm} \rightarrow J/\psi\phi K^{\pm}$ decays**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.734, ss.261-281, 2014 (SCI-Expanded)
- CCCLXVII. **Observation of the associated production of a single top quark -and a W boson in pp collisions at s**

=8TeV

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

Physical Review Letters, cilt.112, sa.23, 2014 (SCI-Expanded)

:CCLXVIII. **Alignment of the CMS tracker with LHC and cosmic ray data**

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

Journal of Instrumentation, cilt.9, sa.6, 2014 (SCI-Expanded)

CCCLXIX. **Measurement of four-jet production in proton-proton collisions at $s = 7\text{TeV}$**

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.89, sa.9, 2014 (SCI-Expanded)

CCCLXX. **Measurement of the properties of a Higgs boson in the four-lepton final state**

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.89, sa.9, 2014 (SCI-Expanded)

CCCLXXI. **Measurement of inclusive W and Z boson production cross sections in pp collisions at $s = 8\text{TeV}$**

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

Physical Review Letters, cilt.112, sa.19, 2014 (SCI-Expanded)

CCCLXXII. **Measurement of the $W\gamma$ and $Z\gamma$ inclusive cross sections in pp collisions at $s = 7\text{TeV}$ and limits on anomalous triple gauge boson couplings**

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

Physical Review D - Particles, Fields, Gravitation and Cosmology, cilt.89, sa.9, 2014 (SCI-Expanded)

:CCLXXIII. **Measurements of $t\bar{t}$ spin correlations and top-quark polarization using dilepton final states in pp collisions at $s = 7\text{TeV}$**

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

Physical Review Letters, cilt.112, sa.18, 2014 (SCI-Expanded)

:CCLXXIV. **Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8\text{TeV}$**

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

Journal of High Energy Physics, cilt.2014, sa.6, 2014 (SCI-Expanded)

CCCLXXV. **Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{S_{NN}} = 5.02\text{TeV}$**

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

European Physical Journal C, cilt.74, sa.6, ss.1-27, 2014 (SCI-Expanded)

:CCLXXVI. **Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{S} = 8\text{TeV}$**

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

Journal of High Energy Physics, cilt.2014, sa.6, 2014 (SCI-Expanded)

CCCLXXVII. **Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 7\text{TeV}$**

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

Physical Review Letters, cilt.111, sa.8, 2013 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. **Search for supersymmetry with a compressed mass spectrum in events involving soft leptons, jets and missing transverse momentum with an integrated luminosity of 20.1 pb¹ of $\sqrt{s} = 8$ TeV ATLAS data**

Morvaj L.

2013 European Physical Society Conference on High Energy Physics, EPS-HEP 2013, Stockholm, İsveç, 18 - 24 Temmuz 2013

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