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Eğitim Bilgileri

Bütünleşik Doktora, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Physics, Türkiye 2006 - 2011
Lisans, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2000 - 2005

Yabancı Diller

İngilizce, C2 Ustalık

Yaptığı Tezler

Bütünleşik Doktora, Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}= 7$ TeV, Boğaziçi Üniversitesi, 2011

Araştırma Alanları

Fizik, Yüksek Enerji Fiziği, Deneysel Yüksek Enerji Fiziği Çalışmaları, Parçacık Hızlandırıcıları, Parçacık Dedektörleri ve Kolorimetreler, Fizik Analizi ve Simülasyon Çalışmaları

Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2023 - Devam Ediyor
Yrd. Doç. Dr., Özyeğin Üniversitesi, Mühendislik Fakültesi, Mühendislik Temel Bilimleri Bölümü, 2012 - 2023
Araştırma Görevlisi, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2006 - 2011

Verdiği Dersler

FİZİK 1, Lisans, 2023 - 2024

Yönetilen Tezler

Işildak B., Yük-parite simetrisi ihlalinin üst kuark kromo elektrik dipol momentlerinden yola çıkılarak yapay öğrenme teknikleriyle araştırılması, Doktora, F.ILGIN(Öğrenci), 2023

Işildak B., Yapay sinir ağları yardımıyla Schrödinger denkleminin nümerikanalizi, Yüksek Lisans, E.SAMUR(Öğrenci), 2023

Işildak B., Özcan V. E., Design and construction of 1 MeV cyclotron, Yüksek Lisans, E.ŞİMŞEK(Öğrenci), 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Study of time resolution measurements and prospects for energy resolution of an ultra-compact sampling calorimeter (RADICAL) module at EM shower maximum over the energy range 25 GeV 150 GeV**
Perez-Lara C., Wetzel J., Akgun U., Anderson T., Barbera T., Blend D., Cankoçak K., Cerci S., Chigurupati N., Cox B., et al.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, cilt.1068, 2024 (SCI-Expanded)
- II. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- III. **Observation of WW γ Production and Search for Hy Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, cilt.132, sa.12, 2024 (SCI-Expanded)
- IV. **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)
- V. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- VI. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- VII. **Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at $s_{NN}=5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- VIII. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- IX. **Higher-order moments of the elliptic flow distribution in PbPb collisions at $s_{NN} = 5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle

A., Hussain P., Jeitler M., et al.

Journal of High Energy Physics, cilt.2024, sa.2, 2024 (SCI-Expanded)

- X. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, cilt.19, sa.2, 2024 (SCI-Expanded)
- XI. **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.
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- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **Measurement of the $t\bar{t}$ charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at $s=13$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.846, 2023 (SCI-Expanded)
- XVI. **Search for the Higgs boson decay to a pair of electrons in proton-proton collisions at $s=13$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.846, 2023 (SCI-Expanded)
- XVII. **Search for pair-produced vector-like leptons in final states with third-generation leptons and at least three b quark jets in proton-proton collisions at $s=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- XVIII. **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.
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- XIX. **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)
- XX. **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)

- XXI. **Search for new heavy resonances decaying to WW, WZ, ZZ, WH, or ZH boson pairs in the all-jets final state in proton-proton collisions at $s=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.844, 2023 (SCI-Expanded)
- XXII. **Two-particle azimuthal correlations in $\gamma\gamma$ interactions using pPb collisions at $s_{NN}=8.16\text{TeV}$**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.844, 2023 (SCI-Expanded)
- XXIII. **Evidence for four-top quark production in proton-proton collisions at $s=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- XXIV. **Search for medium effects using jets from bottom quarks in PbPb 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.
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- XXV. **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)
- XXVI. **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)
- XXVII. **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.
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- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-**

proton collisions at $s=13$ 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.843, 2023 (SCI-Expanded)

XXXII. **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)

XXXIII. **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)

XXXIV. **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)

XXXV. **Azimuthal correlations in Z +jets 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)

XXXVI. **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)

XXXVII. **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)

XXXVIII. **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)

XXXIX. **Search for a massive scalar resonance decaying to a light scalar and a Higgs boson in the four b quarks final state with boosted topology**

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)

XL. **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.

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XLI. **Search for CP violating top quark couplings in pp collisions at $\sqrt{s} = 13$ 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)
- XLII. **Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.
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- XLIII. **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.
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- XLIV. **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)
- XLV. **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)
- XLVI. **Search for long-lived particles decaying to a pair of muons in proton-proton collisions 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.
Journal of High Energy Physics, cilt.2023, sa.5, 2023 (SCI-Expanded)
- XLVII. **Search for CP violation using (Formula presented.) events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13\text{TeV}$**
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)
- XLVIII. **Search for nonresonant Higgs boson pair production in the four leptons plus twob jets final state in proton-proton collisions 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.
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- XLIX. **INVESTIGATING THE VIOLATION OF CHARGE-PARITY SYMMETRY THROUGH TOP-QUARK CHROMOELECTRIC DIPOLE MOMENTS BY USING MACHINE LEARNING TECHNIQUES**
İşildak B., Hüdaverdi M., Ilgin F., Hayreter A., Salva S., Simsek E., Guyer S.
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- L. **Nuclear modification of Y states in pPb collisions at $s_{NN}=5.02\text{TeV}$**
Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.835, 2022 (SCI-Expanded)
- LI. **Search for new particles in an extended Higgs sector with four b quarks in the final state at $s=13\text{TeV}$**
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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- LII. **Evidence for WW/WZ vector boson scattering in the decay channel $\ell\nu q\bar{q}$ produced in association with two jets in proton-proton collisions at $s=13\text{TeV}$**

- Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.834, 2022 (SCI-Expanded)
- LIII. **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.
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- LIV. **Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $s=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.832, 2022 (SCI-Expanded)
- LV. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at $\sqrt{s} = 13\text{TeV}$**
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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- LVI. **Search for Higgs Boson Pair Production in the Four b Quark Final State 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., Frühwirth R., Jeitler M., et al.
Physical Review Letters, cilt.129, sa.8, 2022 (SCI-Expanded)
- LVII. **Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$**
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)
- LVIII. **Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at $s = 13\text{TeV}$**
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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- LIX. **Search for Resonances Decaying to Three W Bosons in Proton-Proton Collisions at $s = 13\text{TeV}$**
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Physical Review Letters, cilt.129, sa.2, 2022 (SCI-Expanded)
- LX. **Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $s_{NN} = 5.02\text{TeV}$**
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)
- LXI. **Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$**
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)
- LXII. **Search for heavy resonances decaying to $Z(\nu\nu^*)V(qq^*)$ in proton-proton collisions at $s = 13\text{TeV}$**
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)
- LXIII. **Search for resonances decaying to three W bosons in the hadronic final state 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., Frühwirth R., Jeitler M., et al.
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- LXIV. **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)
- LXV. **First Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $s = 13$ 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.
Physical Review Letters, cilt.129, sa.1, 2022 (SCI-Expanded)
- LXVI. **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.
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- LXVII. **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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- LXVIII. **Observation of the B_c^+ Meson in Pb-Pb and pp Collisions at $s_{NN} = 5.02$ TeV and Measurement of its Nuclear Modification Factor**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
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- LXIX. **Observation of B_s^0 mesons and measurement of the B_s^0/B^+ yield ratio in PbPb collisions at [Formula presented] 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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- LXX. **FACET: a new long-lived particle detector in the very forward region of the CMS experiment**
Cerci S., Sunar Cerci D., Lazic D., Landsberg G., Cerutti F., Sabaté-Gilarte M., Albrow M., Berryhill J., Green D., Hirschauer J., et al.
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- LXXI. **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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- LXXII. **Inclusive nonresonant multilepton probes of new phenomena at $s = 13$ TeV**
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Physical Review D, cilt.105, sa.11, 2022 (SCI-Expanded)
- LXXIII. **Search for resonant production of strongly coupled dark matter in proton-proton collisions at 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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- LXXIV. **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)

LXXV. **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**

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.5, 2022 (SCI-Expanded)

LXXVI. **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.

Journal of High Energy Physics, cilt.2022, sa.5, 2022 (SCI-Expanded)

LXXVII. **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.

Journal of High Energy Physics, cilt.2022, sa.5, 2022 (SCI-Expanded)

LXXVIII. **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**

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.5, 2022 (SCI-Expanded)

LXXIX. **Observation of $B^0 \rightarrow \psi(2S)K^0S\pi^+\pi^-$ and $B^0S \rightarrow \psi(2S)K^0S$ decays**

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.82, sa.5, 2022 (SCI-Expanded)

LXXX. **Search for invisible decays of the Higgs boson produced via vector boson fusion 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.

Physical Review D, cilt.105, sa.9, 2022 (SCI-Expanded)

LXXXI. **Measurement of the production cross section for Z+b jets in proton-proton collisions at $s = 13$ 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.

Physical Review D, cilt.105, sa.9, 2022 (SCI-Expanded)

LXXXII. **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)

LXXXIII. **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.

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

LXXXIV. **Search for a right-handed W boson and a heavy neutrino 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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- LXXXV. **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**
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.4, 2022 (SCI-Expanded)
- LXXXVI. **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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- LXXXVII. **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.
European Physical Journal C, cilt.82, sa.4, 2022 (SCI-Expanded)
- LXXXVIII. **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**
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- LXXXIX. **Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production 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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- XC. **Precision measurement of the W boson decay branching fractions in proton-proton collisions at $s = 13$ 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 D, cilt.105, sa.7, 2022 (SCI-Expanded)
- XCI. **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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.826, 2022 (SCI-Expanded)
- XCII. **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., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review D, cilt.105, sa.5, 2022 (SCI-Expanded)
- XCIII. **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)
- XCIV. **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)
- XCV. **A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV**

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

Journal of Instrumentation, cilt.17, sa.3, 2022 (SCI-Expanded)

- XCVI. Search for long-lived particles produced 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., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- XCVII. 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.
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- XCVIII. 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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- XCIX. 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**
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.105, sa.3, 2022 (SCI-Expanded)
- C. Search for long-lived particles decaying to leptons with large impact parameter 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.82, sa.2, 2022 (SCI-Expanded)
- CI. 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.
Journal of High Energy Physics, cilt.2022, sa.2, 2022 (SCI-Expanded)
- CII. 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.
Journal of High Energy Physics, cilt.2022, sa.2, 2022 (SCI-Expanded)
- CIII. Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at $s_{NN} = 5.02$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
Physical Review Letters, cilt.128, sa.3, 2022 (SCI-Expanded)
- CIV. Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions**
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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- CV. Measurement of double-parton scattering in inclusive production of four jets with low 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.
Journal of High Energy Physics, cilt.2022, sa.1, 2022 (SCI-Expanded)
- CVI. Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors 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.

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- CVII. **Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV**
Tonon N., Aarup Petersen H., Aldaya Martin M., Asmuss P., Baxter S., Bayatmakou M., Behnke O., Bermúdez Martínez A., Bhattacharya S., Bin Anuar A., et al.
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- CVIII. **Measurement of the inclusive and differential $t \bar{t} \gamma$ cross sections in the single-lepton channel and EFT interpretation 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.2021, sa.12, 2021 (SCI-Expanded)
- CIX. **Measurement of the top quark mass using events with a single reconstructed top quark 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.2021, sa.12, 2021 (SCI-Expanded)
- CX. **Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state**
Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., et al.
Journal of High Energy Physics, cilt.2021, sa.12, 2021 (SCI-Expanded)
- CXI. **Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $s = 5.02$ TeV Using Leptonic Decays**
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.127, sa.19, 2021 (SCI-Expanded)
- CXII. **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.**
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.104, sa.9, 2021 (SCI-Expanded)
- CXIII. **Search for new particles in events with energetic jets and large 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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- CXIV. **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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- CXV. **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.
Journal of High Energy Physics, cilt.2021, sa.11, 2021 (SCI-Expanded)
- CXVI. **Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau b\bar{b}$ final state at 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.2021, sa.11, 2021 (SCI-Expanded)

CXVII. Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

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

European Physical Journal C, cilt.81, sa.11, 2021 (SCI-Expanded)

CXVIII. Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb⁻¹ of proton-proton collisions at $\sqrt{s} = 13\text{TeV}$

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.2021, sa.10, 2021 (SCI-Expanded)

CXIX. Measurement of the electroweak production of $Z\gamma$ and two jets in proton-proton collisions at $s = 13\text{TeV}$ 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.

Physical Review D, cilt.104, sa.7, 2021 (SCI-Expanded)

CXX. Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 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.2021, sa.10, 2021 (SCI-Expanded)

CXXI. Measurements of the $pp \rightarrow W^\pm \gamma\gamma$ and $pp \rightarrow Z\gamma\gamma$ cross sections at $\sqrt{s} = 13\text{TeV}$ and limits 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.

Journal of High Energy Physics, cilt.2021, sa.10, 2021 (SCI-Expanded)

CXXII. Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $s_{NN} = 5.02\text{TeV}$

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

Physical Review Letters, cilt.127, sa.12, 2021 (SCI-Expanded)

CXXIII. First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at $\sqrt{s}=13\text{TeV}$

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.820, 2021 (SCI-Expanded)

CXXIV. Search for W' bosons decaying to a top and a bottom quark at $s=13\text{TeV}$ in the hadronic final state

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.820, 2021 (SCI-Expanded)

CXXV. Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z -Boson Yields and Azimuthal Anisotropy at $s_{NN} = 5.02\text{TeV}$

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CXXVI. Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions

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- CXXVII. **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.
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- CXXVIII. **Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $s = 13$ TeV**
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- CXXX. **Search for top quark production in fully hadronic final states in proton-proton collisions at $s = 13$ TeV**
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- CXXXIII. **Measurement of the azimuthal anisotropy of [Formula presented] and [Formula presented] mesons in PbPb collisions at $s_{NN} = 5.02$ TeV**
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proton collisions at $s = 13$ TeV

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CXXXVIII. Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $s = 13$ TeV

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CXXXIX. Search for long-lived particles using displaced jets in proton-proton collisions at $s = 13$ TeV

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CXL. Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$ TeV

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CXLI. Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV

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CXLII. MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s}=13$ TeV

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CXLIII. Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV

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CXLIV. Measurement of the $W\gamma$ Production Cross Section in Proton-Proton Collisions at $s = 13$ TeV and Constraints on Effective Field Theory Coefficients

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CXLV. Observation of a New Excited Beauty Strange Baryon Decaying to $\Xi_b^- \pi^+ \pi^-$

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CXLVI. Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV

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CXLVII. Measurement of prompt D^0 and $D^{\bar{0}}$ meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $s_{NN} = 5.02$ TeV

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CXLVIII. Measurement of the CP-violating phase ϕ_s in the $B_s^0 \rightarrow J/\psi \phi(1020) \rightarrow \mu^+ \mu^- K^+ K^-$ channel in proton-

proton collisions at $s=13\text{TeV}$

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CXLIX. **Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{NN}} = 8.16\text{ TeV}$**

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

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CL. **Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC**

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CLI. **In-medium modification of dijets in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$**

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Journal of High Energy Physics, cilt.2021, sa.5, 2021 (SCI-Expanded)

CLII. **Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$) in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$**

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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CLIII. **First measurement of large area jet transverse momentum spectra in heavy-ion collisions**

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CLIV. **Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02\text{ TeV}$**

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

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CLV. **Measurements of the differential cross sections of the production of Z + jets and γ + jets and of Z boson emission collinear with a jet in pp collisions at $\sqrt{s} = 13\text{ TeV}$**

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CLVI. **Angular analysis of the decay $B^+ \rightarrow K^*(892)^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$**

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CLVII. **Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13\text{ TeV}$**

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CLVIII. **Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s}=13\text{ TeV}$**

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

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CLIX. **Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$**

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- CLX. **Development and validation of HERWIG 7 tunes from CMS underlying-event measurements**
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- CLXI. **Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s}=13$ TeV MEASUREMENT of DIFFERENTIAL $t\bar{t}$... SIRUNYAN A. M. et al.**
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- CLXII. **Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV**
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- CLXIII. **Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
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- CLXIV. **Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV using effective field theory**
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- CLXV. **Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CLXVI. **Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CLXVII. **Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies**
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- CLXX. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $s=13$ TeV**
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- CLXXII. **Search for the lepton flavor violating decay $\tau \rightarrow 3\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- CLXXIII. **Evidence for Higgs boson decay to a pair of muons**
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- CLXXIV. **Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13$ TeV**
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- CLXXV. **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $s_{NN} = 8.16$ TeV**
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- CLXXX. **Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8$ Te with the CMS and TOTEM experiments**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Valle A. E. D., et al.

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- CLXXXI. **Measurement of the top quark Yukawa coupling from $tt^{\bar{}}$ kinematic distributions in the dilepton final state in proton-proton collisions at $s=13$ TeV**
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- CLXXXII. **Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $s = 13$ TeV**
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- CLXXXIII. **Evidence for Top Quark Production in Nucleus-Nucleus Collisions**
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- CLXXXV. **Search for decays of the 125 GeV Higgs boson into a Z boson and a ρ or ϕ meson**
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- CLXXXVII. **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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- CXCIV. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu+\mu-$ in proton-proton collisions at $s=13$ TeV**
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- CXCV. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $s_{NN} = 5.02$ TeV**
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- CXCVI. **Pileup mitigation at CMS in 13 TeV data**
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- CXCVII. **Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum**
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- CXCVIII. **Measurements of $t\bar{t}H$ 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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- CXCIX. **Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCI. **Study of central exclusive [InlineEquation not available: see fulltext.] production in proton-proton collisions at $\sqrt{s}=5.02$ and 13TeV**
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- CCII. **Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCVII. **Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV**
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- CCVIII. **Measurement of $t t^{-}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions**
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- CCX. **Measurement of the cross section for $t t^{-}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV**
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- CCXI. **Search for dijet resonances using events with three jets in proton-proton collisions at $s = 13$ TeV**
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- CCXII. **A measurement of the Higgs boson mass in the diphoton decay channel**
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- CCXIII. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Del Valle A. E., Flechl M.,

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- CCXIV. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings**
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- CCXV. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV**
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- CCXVI. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
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- CCXVII. **Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive W^\pm and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV**
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- CCXVIII. **Strange hadron production in pp and pPb collisions at $s_{NN} = 5.02$ TeV**
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- CCXIX. **Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
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- CCXX. **Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV**
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- CCXXI. **Study of J/ψ meson production inside jets in pp collisions at $s = 8$ TeV**
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- CCXXII. **Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
Journal of High Energy Physics, cilt.2020, sa.5, 2020 (SCI-Expanded)
- CCXXIII. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.80, sa.5, 2020 (SCI-Expanded)
- CCXXIV. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse**

momentum at 13 TeV with the CMS experiment

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

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CCXXXV. Calibration of the CMS hadron calorimeters using proton-proton collision data at $s = 13$ TeV

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

Journal of Instrumentation, cilt.15, sa.5, 2020 (SCI-Expanded)

CCXXXVI. Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

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CCXXXVII. Constraints on the χ_{c1} versus χ_{c2} Polarizations in Proton-Proton Collisions at $s = 8$ TeV

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

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CCXXXVIII. Production of $\Lambda_c +$ baryons in proton-proton and lead-lead collisions at $s_{NN} = 5.02$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.803, 2020 (SCI-Expanded)

CCXXXIX. Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $s = 13$ TeV

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

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CCXXX. Study of excited $\Lambda_b 0$ states decaying to $\Lambda_b 0\pi^+\pi^-$ in proton-proton collisions at $s = 13$ TeV

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

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CCXXXI. Running of the top quark mass from proton-proton collisions at $s = 13$ TeV

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CCXXXII. Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $s = 13$ TeV

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

Physical Review Letters, cilt.124, sa.13, 2020 (SCI-Expanded)

CCXXXIII. Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

Journal of High Energy Physics, cilt.2020, sa.4, 2020 (SCI-Expanded)

CCXXXIV. Measurement of properties of $B_s 0 \rightarrow \mu^+\mu^-$ decays and search for $B 0 \rightarrow \mu^+\mu^-$ with the CMS experiment

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

Journal of High Energy Physics, cilt.2020, sa.4, 2020 (SCI-Expanded)

CCXXXV. Observation of the $\Lambda_b 0 \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $s = 13$ TeV

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

- Frühwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.802, 2020 (SCI-Expanded)
- CCXXXVI. **A search for the standard model Higgs boson decaying to charm quarks**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXXXVII. **Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXXXVIII. **Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.80, sa.3, 2020 (SCI-Expanded)
- CCXXXIX. **A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.80, sa.3, 2020 (SCI-Expanded)
- CCXL. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXLI. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow \ell + \ell - b \bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXLII. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXLIII. **Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV with 137 fb⁻¹ in final states with a single lepton using the sum of masses of large-radius jets**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
Physical Review D, cilt.101, sa.5, 2020 (SCI-Expanded)
- CCXLIV. **Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXLV. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCXLVI. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions**

at $\sqrt{s} = 13 \text{ TeV}$

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

Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCXLVII. **Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**

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

Journal of High Energy Physics, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCXLVIII. **Combined search for supersymmetry with photons in proton-proton collisions at $s=13 \text{ TeV}$**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.801, 2020 (SCI-Expanded)

CCXLIX. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**

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

Journal of High Energy Physics, cilt.2020, sa.2, 2020 (SCI-Expanded)

CCL. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

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

European Physical Journal C, cilt.80, sa.2, 2020 (SCI-Expanded)

CCLI. **Measurement of the top quark pair production cross section in dilepton final states containing one τ lepton in pp collisions at $\sqrt{s} = 13 \text{ TeV}$**

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

Journal of High Energy Physics, cilt.2020, sa.2, 2020 (SCI-Expanded)

CCLII. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $s = 13 \text{ TeV}$**

Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Flechl M., Frühwirth R., et al.

Journal of Instrumentation, cilt.15, sa.2, 2020 (SCI-Expanded)

CCLIII. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft τ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $s = 13 \text{ TeV}$**

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

Physical Review Letters, cilt.124, sa.4, 2020 (SCI-Expanded)

CCLIV. **Multiparticle correlation studies in pPb collisions at $s_{NN} = 8.16 \text{ TeV}$**

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

Physical Review C, cilt.101, sa.1, 2020 (SCI-Expanded)

CCLV. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $s=13\text{TeV}$**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.800, 2020 (SCI-Expanded)

CCLVI. **Observation of nuclear modifications in W^\pm boson production in pPb collisions at $s_{NN}=8.16\text{TeV}$**

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

- Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.800, 2020 (SCI-Expanded)
- CCLVII. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.800, 2020 (SCI-Expanded)
- CCLVIII. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
European Physical Journal C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCLIX. **W+W- boson pair production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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 D, cilt.102, sa.9, 2020 (SCI-Expanded)
- CCLX. **Search for electroweak production of a vector-like T quark using fully hadronic final states**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2020, sa.1, 2020 (SCI-Expanded)
- CCLXI. **Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- CCLXII. **Searches for physics beyond the standard model with the MT 2 variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCLXIII. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCLXIV. **Evidence for WW production from double-parton interactions in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCLXV. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCLXVI. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Physical Review Letters, cilt.123, sa.24, 2019 (SCI-Expanded)
- CCLXVII. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=5.44\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- CCLXVIII. **Search for long-lived particles using delayed photons in proton-proton collisions at $s = 13$ TeV**
 Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
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- CCLXIX. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to τ lepton pairs**
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- CCLXX. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $s = 13$ TeV**
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- CCLXXI. **Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCLXXII. **Study of the $B \rightarrow J / \psi \Lambda^- p$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV**
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- CCLXXIII. **Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCLXXIV. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCLXXV. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**
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- CCLXXVI. **Search for MSSM Higgs bosons decaying to $\mu + \mu$ -in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCLXXVII. **Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons**
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- :CLXXVIII. **Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCLXXIX. **Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final**

states in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

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CCLXXX. Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV

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

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CCLXXXI. Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in p p collisions at $\sqrt{s}=8$ TeV

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

European Physical Journal C, cilt.79, sa.11, 2019 (SCI-Expanded)

CCLXXXII. Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV

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

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:CLXXXIII. Measurement of the top quark Yukawa coupling from t t kinematic distributions in the lepton+jets final state in proton-proton collisions at $s = 13$ TeV MEASUREMENT of the TOP QUARK YUKAWA COUPLING from ... SIRUNYAN et al.

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Physical Review D, cilt.100, sa.7, 2019 (SCI-Expanded)

:CLXXXIV. Search for Higgs and Z boson decays to J/ ψ or Y pairs in the four-muon final state in proton-proton collisions at $s=13$ TeV

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

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CCLXXXV. Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $s_{NN}=5.02$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.797, 2019 (SCI-Expanded)

:CLXXXVI. Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $s=13$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.797, 2019 (SCI-Expanded)

CLXXXVII. Measurement of the top quark polarization and t t spin correlations using dilepton final states in proton-proton collisions at $s = 13$ TeV

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

Physical Review D, cilt.100, sa.7, 2019 (SCI-Expanded)

:LXXXVIII. Search for pair production of vectorlike quarks in the fully hadronic final state

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

Physical Review D, cilt.100, sa.7, 2019 (SCI-Expanded)

:CLXXXIX. Charged-particle angular correlations in XeXe collisions at $s_{NN} = 5.44$ TeV

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

- Physical Review C, cilt.100, sa.4, 2019 (SCI-Expanded)
- CCXC. **Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Journal of High Energy Physics, cilt.2019, sa.10, 2019 (SCI-Expanded)
- CCXCI. **Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}q\bar{q}'\ell\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
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- CCXCII. **Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
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- CCXCIII. **Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP -Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Physical Review Letters, cilt.123, sa.13, 2019 (SCI-Expanded)
- CCXCIV. **A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.796, ss.131-154, 2019 (SCI-Expanded)
- CCXCV. **Measurement of B_s^0 meson production in pp and PbPb collisions at $s_{NN}=5.02$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.796, ss.168-190, 2019 (SCI-Expanded)
- CCXCVI. **Search for vectorlike leptons in multilepton final states in proton-proton collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Physical Review D, cilt.100, sa.5, 2019 (SCI-Expanded)
- CCXCVII. **Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, cilt.79, sa.9, 2019 (SCI-Expanded)
- CCXCVIII. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV**
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- CCXCIX. **Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.795, ss.76-99, 2019 (SCI-Expanded)

- CCC. **Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $s=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- CCCI. **Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
Physical Review C, cilt.100, sa.2, 2019 (SCI-Expanded)
- CCCI. **Measurement of exclusive $\rho(770)0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
European Physical Journal C, cilt.79, sa.8, 2019 (SCI-Expanded)
- CCCIII. **Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- CCCIV. **Search for the production of $W^{\pm}W^{\pm}W$ events at $s = 13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., et al.
Physical Review D, cilt.100, sa.1, 2019 (SCI-Expanded)
- CCCV. **Studies of Beauty Suppression via Nonprompt D0 Mesons in Pb-Pb Collisions at $s_{NN} = 5.02\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physical Review Letters, cilt.123, sa.2, 2019 (SCI-Expanded)
- CCCVI. **Search for charged Higgs bosons in the $H_{\pm} \rightarrow t \pm \nu_t$ decay channel in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Journal of High Energy Physics, cilt.2019, sa.7, 2019 (SCI-Expanded)
- CCCVII. **Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
European Physical Journal C, cilt.79, sa.7, 2019 (SCI-Expanded)
- CCCVIII. **An embedding technique to determine $\tau\tau$ backgrounds in proton-proton collision data**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Journal of Instrumentation, cilt.14, sa.6, 2019 (SCI-Expanded)
- CCCIX. **Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physical Review D, cilt.99, sa.11, 2019 (SCI-Expanded)
- CCCX. **Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $s=13\text{TeV}$**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.793, ss.520-551, 2019 (SCI-Expanded)

CCCXI. Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV

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

Journal of High Energy Physics, cilt.2019, sa.6, 2019 (SCI-Expanded)

CCCXII. Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to τ leptons

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

Journal of High Energy Physics, cilt.2019, sa.6, 2019 (SCI-Expanded)

CCCXIII. Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $s = 13$ TeV

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

Physical Review D, cilt.99, sa.9, 2019 (SCI-Expanded)

CCCXIV. Measurement and interpretation of differential cross sections for Higgs boson production at $s = 13$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.792, ss.369-396, 2019 (SCI-Expanded)

CCCXV. Search for a W' boson decaying to a τ lepton and a neutrino in proton-proton collisions at $s = 13$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.792, ss.107-131, 2019 (SCI-Expanded)

CCCXVI. Search for an $L\mu - L\tau$ gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $s = 13$ TeV

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.792, ss.345-368, 2019 (SCI-Expanded)

CCCXVII. Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

European Physical Journal C, cilt.79, sa.5, 2019 (SCI-Expanded)

CCCXVIII. Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s} = 13$ TeV

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

European Physical Journal C, cilt.79, sa.5, 2019 (SCI-Expanded)

CCCXIX. Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV

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

European Physical Journal C, cilt.79, sa.5, 2019 (SCI-Expanded)

CCCXX. Search for a low-mass $\tau - \tau$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV

- Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Journal of High Energy Physics, cilt.2019, sa.5, 2019 (SCI-Expanded)
- CCCXXI. **Combinations of single-top-quark production cross-section measurements and $|f_{LV} V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments**
Aaboud M., Aad G., Abbott B., Abbott D., Abidinov O., Abed Abud A., Abhayasinghe D., Abidi S., AbouZeid O., Abraham N., et al.
Journal of High Energy Physics, cilt.2019, sa.5, 2019 (SCI-Expanded)
- CCCXXII. **Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
Journal of High Energy Physics, cilt.2019, sa.5, 2019 (SCI-Expanded)
- CCCXXIII. **Search for supersymmetry in events with a photon, jets, b-jets, and missing transverse momentum in proton-proton collisions at 13 Te**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
European Physical Journal C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCCXXIV. **Search for W Boson Decays to Three Charged Pions**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physical Review Letters, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCCXXV. **Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $s_{NN} = 5.02$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physical Review Letters, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCCXXVI. **Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.791, ss.96-129, 2019 (SCI-Expanded)
- CCCXXVII. **Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.791, ss.172-194, 2019 (SCI-Expanded)
- CCCXXVIII. **Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
Physical Review Letters, cilt.122, sa.13, 2019 (SCI-Expanded)
- CCCXXIX. **Observation of Two Excited B_c^+ States and Measurement of the B_c^+ ($2S$) Mass in pp Collisions at $s = 13$ TeV**
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- CCCXXX. **Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCCXXI. **Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13\text{TeV}$ and combination with the lepton+jets channel**
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- CCCXXII. **Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCCXXIII. **Search for excited leptons in $\ell\ell\gamma$ final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCCXXV. **Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13\text{TeV}$**
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- CCCXXVI. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCCXXVIII. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$**
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- CCCXLV. **Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using razor variables and boosted object identification in zero and one lepton final states**
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- :CCXLVIII. **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXLIX. **Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLI. **Search for the pair production of light top squarks in the $e \pm \mu \mp$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLII. **Measurement of differential cross sections for Z boson pair production in association with jets at**

s=8 and 13 TeV

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CCCLIII. Measurements of $t\bar{t}$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons

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Journal of High Energy Physics, cilt.2019, sa.2, 2019 (SCI-Expanded)

CCCLIV. Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV

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

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CCCLV. Search for new particles decaying to a jet and an emerging jet

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

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CCCLVI. Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$ TeV

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

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CCCLVII. Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV

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

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CCCLVIII. Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV

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

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CCCLIX. Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV

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

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CCCLX. CMS Collaboration

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CCCLXI. Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

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CCCLXII. Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV

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

Physical Review Letters, cilt.122, sa.1, 2019 (SCI-Expanded)

CCCLXIII. Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV

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- CCCLXIV. **Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLXV. **Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCCLXVI. **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- CCCLXVII. **Search for pair-produced three-jet resonances in proton-proton collisions at $s = 13$ TeV**
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- :CCLXVIII. **Performance of missing transverse momentum reconstruction in proton-proton collisions at $p s = 13$ TeV using the CMS detector**
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- CCCLXX. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLXXII. **Search for heavy neutrinos and WR bosons with right-handed couplings in a left-right symmetric model in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- CCLXXVII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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- :CLXXVIII. **Observation of sequential Υ suppression in PbPb collisions**
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- CCCLXXX. **Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s} = 7$ TeV**
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Physical Review Letters, cilt.109, sa.17, 2012 (SCI-Expanded)
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at 7 TeV

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

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CCLXXXV. **Inclusive and differential measurements of the tt- charge asymmetry in proton-proton collisions at $\sqrt{s}=7$ TeV**

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

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.717, sa.1-3, ss.129-150, 2012 (SCI-Expanded)

CLXXXVI. **Search for heavy Majorana neutrinos in $\mu\pm\mu\pm$ +jets and $e\pm e\pm$ +jets events in pp collisions at $\sqrt{s}=7$ TeV**

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

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CLXXXVII. **Measurement of the pseudorapidity and centrality dependence of the transverse energy density in pb-pb collisions at $\sqrt{s_{NN}}=2.76$ 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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LXXXVIII. **Search for a W' or Techni-p decaying into WZ in pp collisions at $\sqrt{s}=7$ TeV**

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

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CLXXXIX. **Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV**

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CCCXC. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV**

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CCCXCI. **Search for a light pseudoscalar Higgs boson in the dimuon decay channel 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.

Physical Review Letters, cilt.109, sa.12, 2012 (SCI-Expanded)

CCCXCII. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**

Chatrchyan S., Khachatryan V., Sirunyan A., 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.716, sa.2, ss.260-284, 2012 (SCI-Expanded)

CCCXCIII. **Search for high-mass resonances decaying into τ -lepton pairs 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.716, sa.1, ss.82-102, 2012 (SCI-Expanded)

CCCXCIV. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s} = 7$**

TeV

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

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

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CCCXCVI. **Measurement of the electron charge asymmetry in inclusive W production 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.

Physical Review Letters, cilt.109, sa.11, 2012 (SCI-Expanded)

CCCXCVII. **Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7\text{TeV}$**

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:CCXCVIII. **Study of W boson production in PbPb and pp collisions at $s_{NN}=2.76\text{TeV}$**

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