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Publons / Web Of Science ResearcherID: B-8910-2018

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Education Information

Masters (Non-Thesis, Evening Education), Cukurova University, İktisadi Ve İdari Bilimler Fakültesi, Yönetim Ve Organizasyon, Turkey 2016 - 2017

Undergraduate, Anadolu University, Open Education Faculty, İşletme , Turkey 2013 - 2016

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1995 - 1999

Postgraduate, Cukurova University, Fen Bilimleri, Fizik, Turkey 1992 - 1995

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1989 - 1992

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, European Research Conference on Frontiers in Particle Astrophysics and Cosmology, Munich, 2001

Education Management and Planning, NATO ASI 2000 Recent Developments in Particle Physics and Cosmology, NATO-ASI, 2000

Education Management and Planning, 27. ITEP Winter School of Physics, ITEP (Institute for Theoretical and Experimental Physics), 1999

Education Management and Planning, Techniques and Concept of High Energy Physics, School -A.B.D Virgin Islands, 1998

Education Management and Planning, European School of High Energy Physics, CERN-JINR, 1996

Education Management and Planning, CERN Summer Student Programme, CERN PH Department, 1993

Dissertations

Doctorate, A Study On Increasing the Sensitivity of the CHORUS Neutrino Detector, Cukurova University, Fen Bilimleri, Yüksek Enerji Ve Plazma, 1999

Postgraduate, CHORUS Nötrino Osilasyon Deneyinde Kullanılan Muon Spektrometresinin Simülasyonu, Cukurova University, Fen Bilimleri, Fizik, 1995

Research Areas

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

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2008 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2003 - 2008

Research Assistant PhD, --Seçiniz--, İsviçre, Cern (European Organization For Nuclear Research, Research Fellow), Ph Dep., 2003 - 2005

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2000 - 2003

Academic and Administrative Experience

Cukurova University, 2013 - Continues

Courses

Parçacık Fiziği, Undergraduate, 2016 - 2017

Analiz, Undergraduate, 2013 - 2014

Advising Theses

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

KAYIŞ TOPAKSU A., Momentum scale calibration of muon momentum tracks using the muon pairs from J/psi decays and installation and commissioning work in CMS at CERN, Doctorate, G.Gökbulut(Student), 2014

KAYIŞ TOPAKSU A., Search For Extra Dimensions with Mono-jet Final States in CMS Proton Collisions at 7 TeV, Doctorate, L.Nükhet(Student), 2011

KAYIŞ TOPAKSU A., Extra GAuge Bosons in E6 Models, Doctorate, H.Arslan(Student), 2008

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, February, 2013

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, June, 2012

Published journal articles indexed by SCI, SSCI, and AHCI

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

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

Hussain P., Jeitler M., et al.

Physical review letters, vol.133, no.20, pp.201803, 2024 (SCI-Expanded)

- II. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, vol.133, no.19, pp.191902, 2024 (SCI-Expanded)
- III. **Observation of double Formula Presented meson production in Formula Presented collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.9, 2024 (SCI-Expanded)
- IV. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and $\psi(2S)$ mesons produced in pp collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.858, 2024 (SCI-Expanded)
- V. **Performance of the CMS high-level trigger during LHC Run 2**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Benato L., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., et al.
Journal of Instrumentation, vol.19, no.11, 2024 (SCI-Expanded)
- VI. **Using graph neural networks to reconstruct charged pion showers in the CMS High Granularity Calorimeter**
Aamir M., Adamov G., Adams T., Adloff C., Afanasiev S., Agrawal C., Agrawal C., Ahmad A., Ahmed H., Akbar S., et al.
Journal of Instrumentation, vol.19, no.11, 2024 (SCI-Expanded)
- VII. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, vol.133, no.16, pp.161805, 2024 (SCI-Expanded)
- VIII. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at $\sqrt{s}=13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, vol.133, no.14, pp.142301, 2024 (SCI-Expanded)
- IX. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $s = 13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)
- X. **Search for production of a single vectorlike quark decaying to tH or tZ in the all-hadronic final state in pp collisions at [Formula presented]**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.7, 2024 (SCI-Expanded)
- XI. **Measurement of differential ZZ + jets production cross sections in pp collisions at $s = 13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)
- XII. **Exploring atmospheric neutrino oscillations at ESSnuSB**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)

- XIII. **Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ effective lifetime from proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)
- XIV. **K_S^0 and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $s_{NN}=5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.857, 2024 (SCI-Expanded)
- XV. **Observation of the $\Lambda_b^0 \rightarrow J/\psi \Xi^- K^+$ decay**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, vol.84, no.10, 2024 (SCI-Expanded)
- XVI. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $s=13$ 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, vol.857, 2024 (SCI-Expanded)
- XVII. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.857, 2024 (SCI-Expanded)
- XVIII. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)
- XIX. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$ TeV using leptonic W boson decays**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.9, 2024 (SCI-Expanded)
- XX. **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)
- XXI. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.133, no.7, 2024 (SCI-Expanded)
- XXII. **Decoherence in neutrino oscillation at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- XXIII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- XXIV. **Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

- Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.855, 2024 (SCI-Expanded)
- XXV. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.3, 2024 (SCI-Expanded)
- XXVI. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- XXVII. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- XXVIII. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.133, no.2, 2024 (SCI-Expanded)
- XXIX. **Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.133, no.1, 2024 (SCI-Expanded)
- XXX. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XXXI. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Reports on Progress in Physics, vol.87, no.7, 2024 (SCI-Expanded)
- XXXII. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)
- XXXIII. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XXXIV. **Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.7, 2024 (SCI-Expanded)
- XXXV. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle

- A., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XXXVI. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- XXXVII. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.132, no.26, 2024 (SCI-Expanded)
- XXXVIII. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.132, no.24, 2024 (SCI-Expanded)
- XXXIX. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XL. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLII. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLIII. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLIII. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLIV. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLV. **Study of nonstandard interactions mediated by a scalar field at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XLVI. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**

- Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.853, 2024 (SCI-Expanded)
- XLVII. **Search for W' bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- XLVIII. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
- XLIX. **Measurement of simplified template cross sections of the Higgs boson produced in association with w or z bosons in the Formula Presented decay channel in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.9, 2024 (SCI-Expanded)
- L. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at (Formula presented.)**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- LI. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- LII. **Development of the CMS detector for the CERN LHC Run 3**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Journal of Instrumentation, vol.19, no.5, 2024 (SCI-Expanded)
- LIII. **Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu b\bar{b}$ and $\tau\tau b\bar{b}$ final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
European Physical Journal C, vol.84, no.5, 2024 (SCI-Expanded)
- LIV. **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- LV. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
- LVI. **Timing performance of the CMS High Granularity Calorimeter prototype**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhousseini M., Alison J., Alpana A., et al.
Journal of Instrumentation, vol.19, no.4, 2024 (SCI-Expanded)
- LVII. **Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at**

Formula Presented

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

Physical Review D, vol.109, no.7, 2024 (SCI-Expanded)

LVIII. Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at Formula Presented

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

Physical Review D, vol.109, no.7, 2024 (SCI-Expanded)

LIX. New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented

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

Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)

LX. Measurements of azimuthal anisotropy of nonprompt D0 mesons 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.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

LXI. Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton

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

Journal of High Energy Physics, vol.2024, no.3, 2024 (SCI-Expanded)

LXII. Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16 \text{ TeV}$

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Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

LXIII. Search for dark matter particles in $W+W-$ events with transverse momentum imbalance in proton-proton collisions at $s = 13 \text{ TeV}$

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

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LXIV. Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13\text{TeV}$

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LXV. Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13 \text{ TeV}$

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LXVI. Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$

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- LXVIII. **Higher-order moments of the elliptic flow distribution in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV**
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- LXIX. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- LXXXIX. **Observation of the B-c(+) Meson in Pb-Pb and pp Collisions at root $s(NN)=5.02$ TeV and Measurement of its Nuclear Modification Factor**
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- XC. **Search for charged-lepton flavor violation in top quark production and decay in pp collisions at root s=13 TeV**
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- CI. **Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- CXXIX. **Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at root S-NN=5.02 TeV**
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- CXXX. **Search for top squark production in fully hadronic final states in proton-proton collisions at root s=13 TeV**
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- CXXXI. **First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at root s=13 TeV**
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- CXXXII. **Search for W' bosons decaying to a top and a bottom quark at root $s=13$ TeV in the hadronic final state**
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- CXXXIII. **Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at root $s(NN)=5.02$ TeV**
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- CXXXIV. **Search for lepton-flavor violating decays of the Higgs boson in the mu tau and e tau final states in proton-proton collisions at root $s=13$ TeV**
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- CXXXV. **Hard color-singlet exchange in dijet events in proton-proton collisions at root $s=13$ TeV**
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- CXXXVI. **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at root $s=13$ TeV**
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- CXXXVII. **Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at root $s=13$ TeV**
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- CXXXIX. **Search for resonant and nonresonant new phenomena in high-mass dilepton final states at root $s=13$ TeV**
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- CXLI. **Measurement of the W gamma Production Cross Section in Proton-Proton Collisions at root $s=13$ TeV and Constraints on Effective Field Theory Coefficients**
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- CXLIII. **Measurements of the differential cross sections of the production of Z plus jets and gamma plus jets and of Z boson emission collinear with a jet in pp collisions at root s=13 TeV**
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- CXLIV. **In-medium modification of dijets in PbPb collisions at root s(NN)=5.02 TeV**
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- CXLV. **Measurement of prompt D-0 and D-0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at root S-NN=5.02 TeV**
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- CXLVII. **First measurement of large area jet transverse momentum spectra in heavy-ion collisions**
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- CXLIX. **Construction and commissioning of CMS CE prototype silicon modules**
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- CLI. **The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype**
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- CLII. **Measurement of differential t(t)-over-bar production cross sections using top quarks at large transverse momenta in pp collisions at root s=13 TeV**
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PHYSICAL REVIEW D, vol.103, no.5, 2021 (SCI-Expanded)
- CLIII. **Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies**
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- CLIV. **The very forward CASTOR calorimeter of the CMS experiment**
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- CLV. **Search for the lepton flavor violating decay tau -> 3 mu in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2021 (SCI-Expanded)

CLVI. Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at root s(NN)=8.16 TeV

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

PHYSICAL REVIEW C, vol.103, no.1, 2021 (SCI-Expanded)

CLVII. Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at root s=13 TeV

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

PHYSICS LETTERS B, vol.812, 2021 (SCI-Expanded)

CLVIII. Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at root s=13 TeV

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

PHYSICS LETTERS B, vol.812, 2021 (SCI-Expanded)

CLIX. Evidence for Higgs boson decay to a pair of muons

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

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2021 (SCI-Expanded)

CLX. Observation of electroweak production of W gamma with two jets in proton-proton collisions at root s=13 TeV

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

PHYSICS LETTERS B, vol.811, 2020 (SCI-Expanded)

CLXI. Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.11, 2020 (SCI-Expanded)

CLXII. Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2020 (SCI-Expanded)

CLXIII. Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV

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

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CLXIV. Search for decays of the 125 GeV Higgs boson into a Z boson and a rho or phi meson

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

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CLXV. W+ W- boson pair production in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

CLXVI. Measurement of the top quark Yukawa coupling from t(t)-bar kinematic distributions in the

dilepton final state in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

CLXVII. Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

CLXVIII. Evidence for Top Quark Production in Nucleus-Nucleus Collisions

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

PHYSICAL REVIEW LETTERS, vol.125, no.22, 2020 (SCI-Expanded)

CLXIX. Measurement of B-c(2S)(+) and B-c*(2S)(+) cross section ratios in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

CLXX. Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at root s=13 TeV

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

PHYSICS LETTERS B, vol.809, 2020 (SCI-Expanded)

CLXXI. Performance of the CMS Level-1 trigger in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.10, 2020 (SCI-Expanded)

CLXXII. Observation of the B-s(0) -> X(3872)phi Decay

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

PHYSICAL REVIEW LETTERS, vol.125, no.15, 2020 (SCI-Expanded)

CLXXIII. Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions

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

JOURNAL OF INSTRUMENTATION, vol.15, no.10, 2020 (SCI-Expanded)

CLXXIV. Search for a light charged Higgs boson in the H-+/- -> cs channel in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.102, no.7, 2020 (SCI-Expanded)

CLXXV. Observation of the Production of Three Massive Gauge Bosons at root s=13 TeV

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

PHYSICAL REVIEW LETTERS, vol.125, no.15, 2020 (SCI-Expanded)

CLXXVI. Pileup mitigation at CMS in 13 TeV data

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

JOURNAL OF INSTRUMENTATION, vol.15, no.9, 2020 (SCI-Expanded)

CLXXVII. Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum

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

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2020 (SCI-Expanded)

CLXXVIII. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^{(+)}\mu^{(-)}$ in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

PHYSICS LETTERS B, vol.808, 2020 (SCI-Expanded)

CLXXIX. **Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

PHYSICS LETTERS B, vol.808, 2020 (SCI-Expanded)

CLXXX. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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

PHYSICAL REVIEW LETTERS, vol.125, no.10, 2020 (SCI-Expanded)

CLXXXI. **Search for resonant pair production of Higgs bosons in the $bbZZ$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

PHYSICAL REVIEW D, vol.102, no.3, 2020 (SCI-Expanded)

CLXXXII. **Measurements of $(t\bar{t})\overline{\text{H}}$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**

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

PHYSICAL REVIEW LETTERS, vol.125, no.6, 2020 (SCI-Expanded)

CLXXXIII. **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**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2020 (SCI-Expanded)

CLXXXIV. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

PHYSICAL REVIEW D, vol.102, no.3, 2020 (SCI-Expanded)

CLXXXV. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV**

Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2020 (SCI-Expanded)

CLXXXVI. **Measurement of $t(\bar{t})\overline{\text{H}}$ 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**

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

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.7, 2020 (SCI-Expanded)

CLXXXVII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**

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

Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)

- .LXXXVIII. **The production of isolated photons in PbPb and pp collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- CLXXXIX. **Search for disappearing tracks in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.806, 2020 (SCI-Expanded)
- CXC. **Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- CXCI. **Measurement of the cross section for t(t)over-bar production with additional jets and b jets in pp collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- CXCII. **Strange hadron production in pp and pPb collisions at root(NN)-N-s=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW C, vol.101, no.6, 2020 (SCI-Expanded)
- CXCIII. **A measurement of the Higgs boson mass in the diphoton decay channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)
- CXCIV. **Search for dijet resonances using events with three jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)
- CXCV. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- CXCVI. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- CXCVII. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- CXCVIII. **Determination of the strong coupling constant alpha(S)(m(Z)) from measurements of inclusive W+/- and Z boson production cross sections in proton-proton collisions at root s=7 and 8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)

- CXCIX. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ and constraints on anomalous quartic couplings**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)

- CC. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.5, 2020 (SCI-Expanded)

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

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- CCII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

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- CCIII. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

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- CCIV. **Constraints on the $\chi(c1)$ versus $\chi(c2)$ Polarizations in Proton-Proton Collisions at $\sqrt{s}=8\text{TeV}$**
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- CCV. **Production of $\Lambda^+(c)$ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$**
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- CCVI. **Measurement of the $t\bar{t}$ over $b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13\text{TeV}$**
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- CCVII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCVIII. **Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCIX. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
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- CCX. **Measurement of properties of $B(s)(0)s \rightarrow \mu(+)\mu(-)$ decays and search for $B-0 \rightarrow \mu(+)\mu(-)$ with the CMS experiment**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCXI. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
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- CCXII. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXIII. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXIV. **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**
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PHYSICAL REVIEW D, vol.101, no.5, 2020 (SCI-Expanded)
- CCXV. **A search for the standard model Higgs boson decaying to charm quarks**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
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- CCXVI. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow \mu^+\mu^+bb$ process in pp collisions at $\sqrt{s}=13$ TeV**
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- CCXVII. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXVIII. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXIX. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)
- CCXX. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
- JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)
- CCXXI. **Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s}=13$ TeV**
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- JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)
- CCXXII. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXIII. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXXIV. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- JOURNAL OF INSTRUMENTATION, vol.15, no.2, 2020 (SCI-Expanded)
- CCXXV. **Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
- PHYSICS LETTERS B, vol.801, 2020 (SCI-Expanded)
- CCXXVI. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- EUROPEAN PHYSICAL JOURNAL C, vol.80, no.2, 2020 (SCI-Expanded)
- CCXXVII. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft tau Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
- PHYSICAL REVIEW LETTERS, vol.124, no.4, 2020 (SCI-Expanded)
- CCXXVIII. **Observation of nuclear modifications in W-+/- boson production in pPb collisions at $\sqrt{s(NN)}=8.16$ TeV**
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- PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)
- CCXXIX. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s}=13$ TeV**
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- CCXXX. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXI. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
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- CCXXXII. **Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCXXXIII. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root s=13TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2020 (SCI-Expanded)
- CCXXXIV. **Study of the $B^+ \rightarrow J/\psi(\Lambda_b)\bar{c}$ decay in proton-proton collisions at root s=8 TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2019 (SCI-Expanded)
- CCXXXV. **Search for long-lived particles using delayed photons in proton-proton collisions at root s=13 TeV**
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PHYSICAL REVIEW D, vol.100, no.11, 2019 (SCI-Expanded)
- CCXXXVI. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at root s=13 TeV**
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- CCXXXVII. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXXXVIII. **Probing the chiral magnetic wave in pPb and PbPb collisions at root S-NN=5.02 TeV using charge-dependent azimuthal anisotropies**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW C, vol.100, no.6, 2019 (SCI-Expanded)
- CCXXXIX. **Measurements of differential Z boson production cross sections in proton-proton collisions at root s=13 TeV**
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- CCXL. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root S-NN=5.44 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXLI. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXLII. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
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- CCXLIII. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at root s=13 TeV**
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- CCXLIV. **Search for supersymmetry using Higgs boson to diphoton decays at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCXLV. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at=13 TeV**
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- CCXLVI. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.798, 2019 (SCI-Expanded)
- CCXLVII. **Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons**
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- CCXLVIII. **Search for MSSM Higgs bosons decaying to mu(+)mu(-) in proton-proton collisions at root s=13TeV**
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- CCXLIX. **Search for new physics in top quark production in dilepton final states in proton-proton collisions at root s=13 TeV**
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- CCL. **Measurement of the top quark Yukawa coupling from t(t)over-bar kinematic distributions in the lepton plus jets final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLI. **Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum**
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- CCLII. **Charged-particle angular correlations in XeXe collisions at $\sqrt{s(NN)}=5.44$ TeV**
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- CCLIII. **Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CCLIV. **Measurement of B-s(0) meson production in pp and PbPb collisions at $\sqrt{s-NN}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLV. **Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV**
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- CCLVI. **Search for charged Higgs bosons in the $H\rightarrow\tau\tau$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLVII. **Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLVIII. **Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLIX. **Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLX. **Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV**
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PHYSICS LETTERS B, vol.793, pp.520-551, 2019 (SCI-Expanded)
- CCLXI. **Search for a low-mass $\tau(-)\tau(+)$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXII. **Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
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PHYSICAL REVIEW D, vol.99, no.9, 2019 (SCI-Expanded)
- CCLXIII. **Combined measurements of Higgs boson couplings in proton- proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXIV. **Combinations of single-top-quark production cross-section measurements and vertical bar $f(LV)V(tb)$ vertical bar determinations at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS experiments**
Aaboud M., Aad G., Abbott B., Abbott D. C., Abdinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.
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- CCLXV. **Search for a W' boson decaying to a tau lepton and a neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXVI. **Search for an L -mu - L -tau gauge boson using $Z \rightarrow 4$ mu events in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.792, pp.345-368, 2019 (SCI-Expanded)
- CCLXVII. **Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
PHYSICS LETTERS B, vol.792, pp.369-396, 2019 (SCI-Expanded)
- CCLXVIII. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)
- CCLXIX. **Measurements of the pp WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2019 (SCI-Expanded)
- CCLXX. **Search for W Boson Decays to Three Charged Pions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.15, 2019 (SCI-Expanded)
- CCLXXI. **Search for nonresonant Higgs boson pair production in the $b(b)$ over-bar $b(b)$ over-bar final state at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCLXXII. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXXIII. **Measurements of properties of the Higgs boson decaying to a Wboson pair in pp collisions at $\sqrt{s}=13$ TeV**

s=13 TeV

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

PHYSICS LETTERS B, vol.791, pp.96-129, 2019 (SCI-Expanded)

CCLXXIV. **Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)

CCLXXV. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at root s=13 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (SCI-Expanded)

CCLXXVI. **Measurement of nuclear modification factors of gamma(1S), gamma(2S), and gamma(3S) mesons in PbPb collisions at root s(NN)=5.02 TeV**

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

PHYSICS LETTERS B, vol.790, pp.270-293, 2019 (SCI-Expanded)

CCLXXVII. **Search for Narrow H gamma Resonances in Proton-Proton Collisions at root s=13 TeV**

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

PHYSICAL REVIEW LETTERS, vol.122, no.8, 2019 (SCI-Expanded)

CCLXXVIII. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root s=13 TeV**

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

PHYSICAL REVIEW LETTERS, vol.122, no.12, 2019 (SCI-Expanded)

CCLXXIX. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at root s=13 TeV**

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

PHYSICS LETTERS B, vol.790, pp.140-166, 2019 (SCI-Expanded)

CCLXXX. **Search for t(t)over-barH production in the H -> b(b)over-bar decay channel with leptonic t(t)over-bar decays in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)

CCLXXXI. **Measurement of prompt psi(2S) production cross sections in proton-lead and proton-proton collisions at root s(NN)=5.02 TeV**

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

PHYSICS LETTERS B, vol.790, pp.509-532, 2019 (SCI-Expanded)

CCLXXXII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**

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

JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.3, 2019 (SCI-Expanded)

CCLXXXIII. **Inclusive search for supersymmetry in pp collisions at root s=13 TeV using razor variables and boosted object identification in zero and one lepton final states**

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

- Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
- :CLXXXIV. **Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
- CCLXXXV. **Measurement of differential cross sections for Z boson pair production in association with jets at root s=8 and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.789, pp.19-44, 2019 (SCI-Expanded)
- :CLXXXVI. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)
- CLXXXVII. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.789, pp.643-665, 2019 (SCI-Expanded)
- :LXXXVIII. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- :CLXXXIX. **Measurements of $t(\bar{t})$ differential cross sections in proton-proton collisions at root s=13 TeV using events containing two leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- CCXC. **Search for pair production of second-generation leptoquarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)
- CCXCI. **Search for new particles decaying to a jet and an emerging jet**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- CCXCII. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)
- CCXCIII. **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI-Expanded)
- CCXCIV. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, vol.122, 2019 (SCI-Expanded)
- CCXCV. **Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.1, 2019 (SCI-Expanded)
- CCXCVI. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)
- CCXCVII. **Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)
- CCXCVIII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.24, 2018 (SCI-Expanded)
- CCXCIX. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)
- CCC. **Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CCCI. **Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)
- CCCII. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.22, 2018 (SCI-Expanded)
- CCCIII. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)
- CCCIV. **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)
- CCCV. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions**

at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

CCCVI. Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

CCCVII. Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

CCCVIII. Measurement of jet substructure observables in t(t)over-bar events from proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.98, no.9, 2018 (SCI-Expanded)

CCCIX. Measurement of the groomed jet mass in PbPb and pp collisions at root s(NN)=5.02 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

CCCX. Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

CCCXI. Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

CCCXII. Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two bquarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS Collaboration

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

PHYSICS LETTERS B, vol.785, pp.462-488, 2018 (SCI-Expanded)

CCCXIII. Observation of the Z -> psi l(+)l(-) Decay in pp Collisions at root s=13 TeV

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

PHYSICAL REVIEW LETTERS, vol.121, no.14, 2018 (SCI-Expanded)

CCCXIV. Precision measurement of the structure of the CMS inner tracking system using nuclear interactions

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

JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)

CCCXV. Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)

- CCCXVI. **Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)
- CCCXVII. **Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2l2q final states at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)
- CCCXVIII. **Observation of Higgs Boson Decay to Bottom Quarks**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.12, 2018 (SCI-Expanded)
- CCCXIX. **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCCXX. **Observation of the chi(b1)(3P) and chi(b2)(3P) and Measurement of their Masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.9, 2018 (SCI-Expanded)
- CCCXXI. **Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter mediators and other new particles**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCCXXII. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCCXXIII. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root(NN)-N-s=8.16 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.8, 2018 (SCI-Expanded)
- CCCXXIV. **Search for R-parity violating supersymmetry in pp collisions at root s=13 TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, vol.783, pp.114-139, 2018 (SCI-Expanded)
- CCCXXV. **Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCCXXVI. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

- PHYSICAL REVIEW LETTERS, vol.121, no.6, 2018 (SCI-Expanded)
- CCCXXVII. **Search for beyond the standard model Higgs bosons decaying into a $b(\bar{b})$ pair in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- :CCXXVIII. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)
- CCCXXIX. **Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)
- CCCXXX. **Nuclear modification factor of D-0 mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.782, pp.474-496, 2018 (SCI-Expanded)
- CCCXXXI. **Electroweak production of two jets in association with a Z boson in proton-proton collisions $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.78, no.7, 2018 (SCI-Expanded)
- CCCXXXII. **Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.782, pp.440-467, 2018 (SCI-Expanded)
- :CCXXXIII. **Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)
- :CCXXXIV. **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.781, pp.244-269, 2018 (SCI-Expanded)
- CCCXXXV. **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW LETTERS, vol.120, 2018 (SCI-Expanded)
- :CCXXXVI. **Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)
- CCXXXVII. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing**

transverse momentum at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

:CXXXVIII. Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.97, no.11, 2018 (SCI-Expanded)

:CCXXXIX. Search for $t(\bar{t})$ production in the all-jet final state in proton-proton collisions root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CCCXL. Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CCCXLI. Search for single production of vector-like quarks decaying to a b quark and a Higgs boson

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CCCXLII. Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV

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

PHYSICAL REVIEW C, vol.97, no.6, 2018 (SCI-Expanded)

CCCXLIII. Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CCCXLIV. Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at root s=13 TeV

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

JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)

CCCXLV. Observation of $(t\bar{t})$ Production

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

PHYSICAL REVIEW LETTERS, vol.120, no.23, 2018 (SCI-Expanded)

CCCXLVI. Search for the X(5568) State Decaying into $B\text{-}s(0)\pi(+/-)$ in Proton-Proton Collisions at root s=8 TeV

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

PHYSICAL REVIEW LETTERS, vol.120, no.20, 2018 (SCI-Expanded)

CCCXLVII. Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV

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

PHYSICAL REVIEW LETTERS, vol.120, no.20, 2018 (SCI-Expanded)

:CCXLVIII. Evidence for the Higgs boson decay to a bottom quark-antiquark pair

- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.780, pp.501-532, 2018 (SCI-Expanded)
- CCCXLIX. **Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.780, pp.384-409, 2018 (SCI-Expanded)
- CCCL. **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.14, 2018 (SCI-Expanded)
- CCCLI. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.779, pp.166-190, 2018 (SCI-Expanded)
- CCCLII. **Combination of inclusive and differential $t(\bar{t})$ over-bar charge asymmetry measurements using ATLAS and CMS data at root $S=7$ and 8 TeV**
Aaboud M. y., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2018 (SCI-Expanded)
- CCCLIII. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW C, vol.97, no.4, 2018 (SCI-Expanded)
- CCCLIV. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, vol.97, no.7, 2018 (SCI-Expanded)
- CCCLV. **Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.779, pp.283-316, 2018 (SCI-Expanded)
- CCCLVI. **Measurement of the associated production of a single top quark and a Z boson in pp collisions at, root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.779, pp.358-384, 2018 (SCI-Expanded)
- CCCLVII. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.778, pp.101-127, 2018 (SCI-Expanded)
- CCCLVIII. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2018 (SCI-Expanded)
- CCCLIX. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLX. **Measurement of the inclusive t(t)over-bar cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2018 (SCI-Expanded)
- CCCLXI. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLXII. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, vol.777, pp.39-63, 2018 (SCI-Expanded)
- CCCLXIII. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICAL REVIEW LETTERS, vol.120, no.7, 2018 (SCI-Expanded)
- CCCLXIV. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW LETTERS, vol.120, no.8, 2018 (SCI-Expanded)
- CCCLXV. **Search for resonant and nonresonant Higgs boson pair production in the b(b)over-bar l nu l nu final state in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLXVI. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2018 (SCI-Expanded)
- CCCLXVII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
 Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
 JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- :CCLXVIII. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**
 Sirunyan A. M., Collaboration C. M. S., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
 PHYSICS LETTERS B, vol.775, pp.1-24, 2017 (SCI-Expanded)
- CCCLXIX. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton**

collisions at root s=13 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.12, 2017 (SCI-Expanded)

CCCLXX. Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV

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

PHYSICS LETTERS B, vol.775, pp.315-337, 2017 (SCI-Expanded)

CCCLXXI. Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root s=13 TeV

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

PHYSICAL REVIEW LETTERS, vol.119, no.22, 2017 (SCI-Expanded)

CCCLXXII. Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics

Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.

JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)

:CCLXXIII. Measurement of charged pion, kaon, and proton production in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, vol.96, no.11, 2017 (SCI-Expanded)

:CCLXXIV. Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root s=13 TeV

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

PHYSICS LETTERS B, vol.774, pp.279-307, 2017 (SCI-Expanded)

CCCLXXV. Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)

:CCLXXVI. Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)

CCLXXVII. Search for associated production of dark matter with a Higgs boson decaying to b(b)over-bar or gamma gamma at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2017 (SCI-Expanded)

:CLXXVIII. Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)=8 TeV

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

PHYSICAL REVIEW D, vol.96, no.7, 2017 (SCI-Expanded)

:CCLXXIX. Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at root s=8 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,

- Dragicevic M., Eroe J., et al.
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- CCCLXXX. **Search for Supersymmetry in pp Collisions at root s=13 TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW LETTERS, vol.119, no.15, 2017 (SCI-Expanded)
- CCCLXXXI. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, vol.119, no.14, 2017 (SCI-Expanded)
- CCLXXXII. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13TeV**
 Sirunyan A. M., Tumasyan A., Johnson A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.10, 2017 (SCI-Expanded)
- CCCLXXXIII. **Measurement of the B-+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, vol.119, no.15, 2017 (SCI-Expanded)
- CCCLXXXIV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)
- CCLXXXV. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root s=13TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)
- CCCLXXXVI. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, vol.119, no.8, 2017 (SCI-Expanded)
- CCCLXXXVII. **Measurement of the top quark mass in the dileptonic t(t)over-bar decay channel using the mass observables M-bl, M-T2, and M-blv in pp collisions at root=8 TeV**
 Sirunyan A. M., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICAL REVIEW D, vol.96, no.3, 2017 (SCI-Expanded)
- CCCLXXXVIII. **Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, vol.770, pp.278-301, 2017 (SCI-Expanded)
- CCCLXXXIX. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

- PHYSICS LETTERS B, vol.770, pp.50-71, 2017 (SCI-Expanded)
- CCCXC. **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**
POLATÖZ A., KAYIŞ TOPAKSU A., DUMANOĞLU İ., Collaboration C.
PHYSICS LETTERS B, vol.768, pp.103-129, 2017 (SCI-Expanded)
- CCCXCI. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.768, pp.137-162, 2017 (SCI-Expanded)
- CCCXCII. **Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2017 (SCI-Expanded)
- CCCXCIII. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at root s=8 TeV**
Khachatryan V., SIRUNYAN A. M., Wolfgang A., Tumasyan A., ASILAR E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-20, 2017 (SCI-Expanded)
- CCCXCIV. **Relative Modification of Prompt psi(2S) and J/psi Yields from pp to PbPb Collisions at root(S)(NN)=5.02 TeV**
DUMANOĞLU İ., KAYIŞ TOPAKSU A., TUMASYAN A., Wolfgang A., Albert S.
PHYSICAL REVIEW LETTERS, vol.118, pp.1-20, 2017 (SCI-Expanded)
- CCCXCV. **Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.767, pp.147-170, 2017 (SCI-Expanded)
- CCCXCVI. **Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**
Khachatryan V., Tumasyan A., SIRUNYAN A. M., Wolfgang A., Asilar E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
PHYSICAL REVIEW LETTERS, vol.118, no.12, pp.1-20, 2017 (SCI-Expanded)
- CCCXCVII. **Measurement of the WZ production cross section in pp collisions at root s=13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.766, pp.268-290, 2017 (SCI-Expanded)
- CCCXCVIII. **Measurement of the t(t)over-bar production cross section using events in the e mu final state in pp collisions at root s=13 TeV**
Khachatryan V., SIRUNYAN A. M., Tumasyan A., Wolfgang A., Asilar E., BRANDSTETTER J., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.3, pp.1-20, 2017 (SCI-Expanded)
- CCCXCIX. **Search for lepton flavour violating decays of the Higgs boson to e tau and e mu in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.763, pp.472-500, 2016 (SCI-Expanded)
- CD. **Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter

- J., Brondolin E., Dragicevic M., et al.
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- CDI. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
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- CDII. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 TeV**
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- CDIII. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root S = 8 TeV**
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- CDVII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**
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- CDXVIII. **Limits on the Higgs boson lifetime and width from its decay to four charged leptons**
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The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Friedl M., Fruehwirth R., et al.
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- CDXXVI. **Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CDXXVIII. **Measurements of jet multiplicity and differential production cross sections of Z plus jets events in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- CDXXIX. **Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets**
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Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- CDXXXII. **Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- CDXXXIII. **Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M.,

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- CDXXXIV. **Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**
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- CDXXXV. **Observation of the diphoton decay of the Higgs boson and measurement of its properties**
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- CDXXXIX. **Study of the production of charged pions, kaons, and protons in pPb collisions at root SNN=5.02 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CDXL. **Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays**
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- CDXLI. **Searches for light- and heavy-flavour three-jet resonances in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CDXLII. **Modification of jet shapes in PbPb collisions at root s(NN)=2.76 TeV**
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- CDXLIII. **Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s = 8 TeV (vol 2, 024, 2014)**
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- CDXLIV. **Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CDXLV. **Determination of the top-quark pole mass and strong coupling constant from the t(t)over-bar**

production cross section in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, vol.728, pp.496-517, 2014 (SCI-Expanded)

CDXLVI. Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions

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

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CDXLVII. Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states

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

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CDXLVIII. Search for the associated production of the Higgs boson with a top-quark pair

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

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

Kayış Topaksu A.

Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.89, pp.1-10, 2014 (SCI-Expanded)

CDL. Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV

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

PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)

CDLI. Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, vol.727, pp.381-402, 2013 (SCI-Expanded)

CDLII. Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)

CDLIII. Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets

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

PHYSICAL REVIEW LETTERS, vol.111, no.22, 2013 (SCI-Expanded)

CDLIV. Searches for new physics using the t(t)-bar invariant mass distribution in pp collisions at root s=8 TeV

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

PHYSICAL REVIEW LETTERS, vol.111, no.21, 2013 (SCI-Expanded)

CDLV. Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states

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

PHYSICS LETTERS B, vol.726, pp.564-586, 2013 (SCI-Expanded)

CDLVI. The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC

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

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JOURNAL OF INSTRUMENTATION, vol.8, 2013 (SCI-Expanded)
- CDLVII. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.727, pp.57-76, 2013 (SCI-Expanded)
- CDLVIII. **Search for a Higgs boson decaying into a Z and a photon in pp collisions at root s=7 and 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.726, pp.587-609, 2013 (SCI-Expanded)
- CDLIX. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- CDLX. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- CDLXI. **Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- CDLXII. **Interpretation of searches for supersymmetry with simplified models**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.88, no.5, 2013 (SCI-Expanded)
- CDLXIII. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- CDLXIV. **Searches for Higgs bosons in pp collisions at root s=7 and 8 TeV in the context of four-generation and fermiophobic models**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICS LETTERS B, vol.725, pp.36-59, 2013 (SCI-Expanded)
- CDLXV. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.111, no.8, 2013 (SCI-Expanded)
- CDLXVI. **Measurement of masses in the t(t)over-tilde system by kinematic endpoints in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- CDLXVII. **search for new physics in events with same-sign dileptons and b jets in pp collisions at root s = 8 TeV**

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

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

- CDLXVIII. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- CDLXIX. **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- CDLXX. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.723, pp.280-301, 2013 (SCI-Expanded)
- CDLXXI. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=7 TeV**
POLATÖZ A., DUMANOĞLU İ., EŞKUT E., KAYIŞ TOPAKSU A., Öngüt G.
PHYSICS LETTERS B, vol.718, pp.752-772, 2013 (SCI-Expanded)
- CDLXXII. **Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.6, 2013 (SCI-Expanded)
- CDLXXIII. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CDLXXIV. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root s=7 TeV**
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- DXI. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**
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DXIII. Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in proton-proton collisions root s=7 TeV

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

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DXIV. Measurement of the top-quark mass in $t(\bar{t})$ events with dilepton final states in pp collisions at root s=7 TeV

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DXV. Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-) + \text{jets}$ and $e(+/-)e(+/-) + \text{jets}$ events in pp collisions at root s=7 TeV

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DXVI. Search for a W' or Techni-rho Decaying into WZ in pp Collisions at root s=7 TeV

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DXVII. Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at root s=7 TeV

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DXVIII. Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root s=0.9, 2.76, and 7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)

DXIX. Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV

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

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DXX. Performance of CMS muon reconstruction in pp collision events at root s=7TeV

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

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DXXI. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at root s=7 TeV

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

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DXXII. Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at root s=7 TeV

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

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- DXXXVII. **Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root s=7 TeV**
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- DXXXVIII. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroë J., Fabjan C., et al.
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- DXXXIX. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroë J., Fabjan C., et al.
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- DXXXX. **Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- DXXXI. **Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy**
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- DXXXII. **Search for a light charged Higgs boson in top quark decays in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- DXXXIII. **Search for heavy long-lived charged particles in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- DXXXIV. **Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root**

S-NN=2.76 TeV

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

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DXXXV. Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy

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

PHYSICAL REVIEW LETTERS, vol.108, no.26, 2012 (SCI-Expanded)

DXXXVI. Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states containing a tau

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

PHYSICAL REVIEW D, vol.85, no.11, 2012 (SCI-Expanded)

DXXXVII. Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=7$ TeV

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

PHYSICS LETTERS B, vol.713, no.2, pp.68-90, 2012 (SCI-Expanded)

DXXXVIII. Measurement of the mass difference between top and antitop quarks

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

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DXXXIX. Observation of a New $\Xi(b)$ Baryon

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

PHYSICAL REVIEW LETTERS, vol.108, no.25, 2012 (SCI-Expanded)

DXL. Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV

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

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DXLI. Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s}=7$ TeV

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

PHYSICS LETTERS B, vol.711, no.1, pp.15-34, 2012 (SCI-Expanded)

DXLII. Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7$ TeV

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

PHYSICS LETTERS B, vol.710, no.3, pp.403-425, 2012 (SCI-Expanded)

DXLIII. Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q\bar{q}\ell\ell$ in pp collisions at $\sqrt{s}=7$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2012 (SCI-Expanded)

DXLIV. Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV

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

PHYSICS LETTERS B, vol.710, no.2, pp.256-277, 2012 (SCI-Expanded)

DXLV. Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}=7$ TeV

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- DXLVI. Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at $\sqrt{s}=7$ TeV**
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- DXLVII. Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- DXLVIII. Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV**
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- DXLIX. Study of high-p(T) charged particle suppression in PbPb compared to pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- DL. Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ channel in pp collisions at $\sqrt{s}=7$ TeV**
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- DLI. Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)}\tau^{(+)}\tau^{(-)}$ decay channel in pp collisions at $\sqrt{s}=7$ TeV**
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- DLII. Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV**
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- DLIII. Search for the standard model Higgs boson decaying to $W+W-$ in the fully leptonic final state in pp collisions at $\sqrt{s}=7$ TeV**
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- DLIV. Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**
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DLVII. J/psi and psi(2S) production in pp collisions at root s=7 TeV

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DLVIII. Inclusive search for squarks and gluinos in pp collisions at root s=7 TeV

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

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DLIX. Performance of tau-lepton reconstruction and identification in CMS

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DLX. Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at root s=7 TeV

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DLXI. Search for a Vectorlike Quark with Charge 2/3 in t plus Z Events from pp Collisions at root s 7 TeV

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

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DLXII. Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC

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

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DLXIII. Search for light resonances decaying into pairs of muons as a signal of new physics

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

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DLXIV. Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy

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PHYSICAL REVIEW LETTERS, vol.107, no.22, 2011 (SCI-Expanded)

DLXV. Measurement of the t(t)over-bar production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification

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PHYSICAL REVIEW D, vol.84, no.9, 2011 (SCI-Expanded)

DLXVI. Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at root s=7 TeV

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PHYSICAL REVIEW LETTERS, vol.107, no.20, 2011 (SCI-Expanded)

DLXVII. Determination of jet energy calibration and transverse momentum resolution in CMS

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

- JOURNAL OF INSTRUMENTATION, vol.6, 2011 (SCI-Expanded)
- DLXVIII. **Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV**
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- DLXIX. **Search for B-s(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) Decays in pp Collisions at root s=7 TeV**
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- DLXX. **Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS**
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PHYSICS LETTERS B, vol.704, no.3, pp.143-162, 2011 (SCI-Expanded)
- DLXXII. **Inclusive b-hadron production cross section with muons in pp collisions at sqrt(s) = 7 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
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- DLXXIII. **Measurement of B B-bar angular correlations based on secondary vertex reconstruction at sqrt(s) = 7 TeV**
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- DLXXIV. **Search for physics beyond the standard model using multilepton signatures in pp collisions at root s=7 TeV**
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- DLXXV. **Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV**
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- DLXXVI. **Measurement of the B-s(0) Production Cross Section with B-s(0) -> J/psi phi Decays in pp Collisions at root s=7 TeV**
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- DLXXVII. **Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV**
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- DLXXVIII. **Measurement of charm production in neutrino charged-current interactions**
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- DLXXIX. **Measurement of the Inclusive Jet Cross Section in pp Collisions at root s=7 TeV**
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- PHYSICAL REVIEW LETTERS, vol.107, no.13, 2011 (SCI-Expanded)
- DLXXX. **Search for Three-Jet Resonances in pp Collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXXI. **Measurement of the t-Channel Single Top Quark Production Cross Section in pp Collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXXII. **Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.702, no.5, pp.336-354, 2011 (SCI-Expanded)
- DLXXXIII. **Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXXIV. **Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**
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- DLXXXV. **Search for supersymmetry in events with b jets and missing transverse momentum at the LHC**
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- DLXXXVI. **Search for a W ' boson decaying to a muon and a neutrino in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXXVII. **Measurement of W gamma and Z gamma production in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.701, no.5, pp.535-555, 2011 (SCI-Expanded)
- DLXXXVIII. **Measurement of the t(t)over-bar production cross section and the top quark mass in the dilepton channel in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXXIX. **Search for a heavy bottom-like quark in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DXC. **Measurement of the differential dijet production cross section in proton-proton collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.700, pp.187-206, 2011 (SCI-Expanded)
- DXCI. **Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at root $s=7$ TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXCII. Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXCIII. Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s}=7$ TeV**
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- DXCIV. Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXCV. Search for Supersymmetry in pp Collisions at $\sqrt{s}=7$ TeV in Events with Two Photons and Missing Transverse Energy**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.21, 2011 (SCI-Expanded)
- DXCVI. Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Fabjan C., Friedl M., Fruehwirth R., Gheze V. M., et al.
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- DXCVII. Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DXCVIII. Measurement of $W+W^-$ production and search for the Higgs boson in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXCIX. Study of Z Boson Production in PbPb Collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- DC. First measurement of hadronic event shapes in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.699, pp.48-67, 2011 (SCI-Expanded)
- DCI. Strange particle production in pp collisions at $\sqrt{s}=0.9$ and 7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCII. Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2011 (SCI-Expanded)
- DCIII. **Search for large extra dimensions in the diphoton final state at the Large Hadron Collider**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCIV. **Measurement of Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCV. **Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCVI. **Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at root s=7TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCVII. **Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCVIII. **Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV**
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- DCIX. **Search for microscopic black hole signatures at the Large Hadron Collider**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCX. **Measurement of the B+ Production Cross Section in pp Collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.11, 2011 (SCI-Expanded)
- DCXI. **Prompt and non-prompt J/psi production in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCXII. **Search for heavy stable charged particles in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCXIII. **Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DCXIV. **First measurement of the cross section for top-quark pair production in proton-proton collisions at root s=7 TeV**

- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al
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- DCXV. **Search for Stopped Gluinos in pp Collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al
PHYSICAL REVIEW LETTERS, vol.106, no.1, 2011 (SCI-Expanded)
- DCXVI. **Charged particle multiplicities in pp interactions at root s=0.9, 2.36, and 7 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.
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- KAYIŞ TOPAKSU A., Tok U. G., Project Supported by Higher Education Institutions, 13 TeV'de Razor değişkenleri kullanılarak itirilmiş top kuark etiketleme yöntemi ile yeni fizik araştırmaları: İstatistiksel Analiz, 2019 - Continues
- KAYIŞ TOPAKSU A., EU Framework Program Project, Feasibility Study for employing the uniquely powerful ESS linear accelerator to generate an intense neutrino beam for leptonic CP violation discovery and measurement, 2017 - Continues
- KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CMS Deneyinde HKAL'in Yenilenme/İyileştirme Çalışmaları ve fizik Analizleri, 2014 - Continues
- KAYIŞ TOPAKSU A., GÖKBULUT G., oğlakcı M., Project Supported by Higher Education Institutions, Nötrino Fiziği Araştırmaları ve Fizik Bölümündeki CMS Merkezinin Yenilenmesi, 2021 - 2023
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- KAYIŞ TOPAKSU A., Zorbakır İ. S., Project Supported by Higher Education Institutions, 13 TeV'de dijet kütle tesir kesitinin ölçülmesi, 2017 - 2023
- KAYIŞ TOPAKSU A., Kiminsu U., Project Supported by Higher Education Institutions, Measurement of Double-differentia

Dijet Mass Cross Sections with the CMS Detector at 13 TeV., 2017 - 2022

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, CMS Deneyinde yeni fizik arařtırmaları (4 adet yayın ile bařvuru), 2017 - 2021

KAYIŞ TOPAKSU A., DOĐAN T., TOPAKSU M., Project Supported by Higher Education Institutions, Erbiyum (Er) Katkılanmış Al₂O₃ Dozimetrenin Termoluminesans Yöntemi Kullanılarak Doz Cevap Eğrilerinin Analizi, 2017 - 2020

KAYIŞ TOPAKSU A., Bilican F., Project Supported by Higher Education Institutions, CMS Hadron Kalorimetresinin performans analizleri, 2018 - 2019

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KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, Yayın teřvik (2 yayın), 2015 - 2016

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KAYIŞ TOPAKSU A., Zorbakır İ. S., Project Supported by Higher Education Institutions, CMS Kalorimetre jetleri için Kule Eşik Deđerlerinin Saptanması, 2014 - 2015

KAYIŞ TOPAKSU A., Kiminsu U., Project Supported by Higher Education Institutions, CMS'de Yenilenen PMT'lerin kazançlarının zamana göre deđişimin incelenmesi, 2014 - 2015

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, 1) Measurement Of The Cross Section And Angular Correlations For Associated Production Of A Z Boson With B Hadrons In Pp Collisions At S= 7 Tev 2) Jet And Underlying Event Properties As A Function Of Charged-Particle Multiplicity In Proton-Proton Collisions At Root S=7 Tev 3) Measurement Of The W+W- Cross Section In Pp Collisions At And Limits On Anomalous Ww Gamma And Wwz Couplings" 4) Search For Narrow Resonances Using The Dijet Mass Spectrum In Pp Collisions At Root S=8 Tev", 2014 - 2015

KAYIŞ TOPAKSU A., Ođlakçı M., Project Supported by Higher Education Institutions, CMS Kalorimetre jetleri kullanılarak HPD ve SiPM'lerin kalibrasyon faktörlerinin belirlenmesi, 2014 - 2014

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, LHC'de CMS Deneyinde 7 - 14 TeV Kütle Merkezi Enerjisinde J/? Parçacığı İçeren Dar Rezonansların Arařtırılması, 2011 - 2014

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, CERN'deki CMS Deneyinde Monte Carlo Verileri ile Kalibrasyon Çalıřmaları, 2012 - 2013

KAYIŞ TOPAKSU A., GÖKBULUT G., CB Strateji ve Bütçe Bařkanlığı (Kalkınma Bakanlığı) Projesi, CMS Deneyinde Dedektör Kurulumu, Yenilenmesi ve Fizik Çalıřmaları, 2010 - 2013

KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Bařkanlığı (Kalkınma Bakanlığı) Projesi, CERN'deki CMS deneyinde ağır iyon çalıřmaları, 2004 - 2009

KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Bařkanlığı (Kalkınma Bakanlığı) Projesi, CERN'deki CMS Deneyi için Kullanılacak Optik ve Ölçüm Labaratuvarının Kurulması, 2003 - 2004

KAYIŞ TOPAKSU A., TUBITAK Project, CERN'deki CMS Deneyi için En İleri Kalorimetre II, 1999 - 2000

KAYIŞ TOPAKSU A., TUBITAK Project, Yüksek Enerji Fiziđi CERN Nötrino Deneyleri Arařtırmaları, 1992 - 1996

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Publication: 763

Citation (WoS): 32358

Citation (Scopus): 34817

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H-Index (Scopus): 87

Scholarships

Junior Associate(2006-2011), ICTP, İtalya, Other International Organizations, 2006 - 2011

Research Fellow (2003-2005), CERN, Cenevre, İsviçre, Other International Organizations, 2003 - 2005

Bütünleştirilmiş Doktora Burs Programı(1996-1999), TÜBİTAK, 1996 - 1999

Awards

KAYIŞ TOPAKSU A., Fen-Edebiyat Fakülte Birinciliği, Çukurova Üniversitesi, June 1992

KAYIŞ TOPAKSU A., Fizik Bölüm Birincisi, Çukurova Üniversitesi, June 1992

Non Academic Experience

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