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Publons / Web Of Science ResearcherID: G-2141-2018

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Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Edebiyat Fakültesi/ Fen Bilimleri Enstitüsü, Fizik Bölümü/ Fizik Anabilim Dalı, Türkiye 2007 - 2014

Yüksek Lisans-Tezsiz, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Anabilim Dalı, Ortaöğretim Alan Öğretmenliği (Fizik), Türkiye 2006 - 2007

Lisans, Çukurova Üniversitesi, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü/, Fizik Bölümü, Türkiye 2002 - 2006

Yabancı Diller

İngilizce, C1 İleri

Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, TUBİTAK ARDEB Programı Bilgilendirme ve Proje Önerisi Yazma Uygulamalı Eğitimi, Çukurova Üniversitesi, 2018

Eğitim Yönetimi ve Planlama, COST (TN1302) Financial Management of EU Projects, University Politehnica of Bucharest, 2018

Eğitim Yönetimi ve Planlama, H2020 Financial Management, Vrije University, 2017

Finans, Focused Group Training-Horizon 2020 Legal and Financial Issues, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Diğer, Horizon 2020 Intellectual Property Rights Training, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Eğitim Yönetimi ve Planlama, COST BESTPRAC Meeting - Working Group 2 (Finance), COST BESTPRAC Action, 2016

Eğitim Yönetimi ve Planlama, Turkey in Horizon 2020 Project General Training, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Eğitim Yönetimi ve Planlama, FP7 and Horizon2020 Master of Finance and Administration, Europa Media Trainings, 2015

Eğitim Yönetimi ve Planlama, CERN- Fermilab Hadron Collider Physics Summer School, CERN (Conseil Européen pour la Recherche Nucléaire), 2013

Eğitim Yönetimi ve Planlama, Beyond the Standard Model: Results with the 7 TeV LHC Collision Data, The Abdus Salam International Centre for Theoretical Physics, 2011

Yaptığı Tezler

Doktora, MOMENTUM SCALE CALIBRATION OF MUON TRACKS USING THE MUON PAIRS FROM J/Psi DECAYS AND INSTALLATION AND COMMISSIONING WORK IN CMS AT CERN, Çukurova Üniversitesi, Fen Edebiyat, Fizik Bölümü, 2014

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Temel Bilimler

Akademik Unvanlar / Görevler

Öğretim Görevlisi Dr., Çukurova Üniversitesi, Rektörlük, Proje Geliştirme Ve Koordinasyon Birimi, 2015 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Angular analysis of the $B^0 \rightarrow K^*(892)0\mu+\mu^-$ decay in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Benato L., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.864, 2025 (SCI-Expanded)
- II. **Search for Nuclear Modifications of (Formula presented) Meson Production in (Formula presented)-Pb Collisions at (Formula presented)**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.134, sa.11, 2025 (SCI-Expanded)
- III. **Search for the Higgs boson decays to a ρ^0 , ϕ , or K^*0 meson and a photon in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.862, 2025 (SCI-Expanded)
- IV. **Search for light long-lived particles decaying to displaced jets in proton-proton collisions at $\sqrt{s} = 13.6 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Reports on Progress in Physics, cilt.88, sa.3, 2025 (SCI-Expanded)
- V. **Pseudorapidity distributions of charged hadrons in lead-lead collisions at $s_{NN}=5.36\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.861, 2025 (SCI-Expanded)
- VI. **Constraints on the Higgs boson self-coupling from the combination of single and double Higgs boson production in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.861, 2025 (SCI-Expanded)
- VII. **Search for long-lived heavy neutral leptons in proton-proton collision events with a lepton-jet pair associated with a secondary vertex at $s = 13 \text{ TeV}$**

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

Journal of High Energy Physics, cilt.2025, sa.2, 2025 (SCI-Expanded)

- VIII. **Measurement of inclusive and differential cross sections for W^+W^- production in proton-proton collisions at $\sqrt{s}=13.6$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
PHYSICS LETTERS B, cilt.861, 2025 (SCI-Expanded)
- IX. **The effect of radiation damage on the light yield and uniformity of candidate plastic scintillator tiles for the CMS hadron calorimeter upgrade**
Gevorgyan A., Petrosyan A., Tumasyan A., Van De Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., Alves G., Hensel C., Aldá Júnior W., et al.
Journal of Instrumentation, cilt.20, sa.1, 2025 (SCI-Expanded)
- X. **Search for bottom quark associated production of the standard model Higgs boson in final states with 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, cilt.860, 2025 (SCI-Expanded)
- XI. **Study of WH production through vector boson scattering and extraction of the relative sign of the W and Z couplings to the Higgs boson in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.860, 2025 (SCI-Expanded)
- XII. **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, cilt.133, sa.20, ss.201803, 2024 (SCI-Expanded)
- XIII. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.19, ss.191902, 2024 (SCI-Expanded)
- XIV. **Measurement of the polarizations of prompt and non-prompt $[F_{\text{meson}}]$ and $\psi(2S)$ mesons produced in pp collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.858, 2024 (SCI-Expanded)
- XV. **Observation of double $[F_{\text{meson}}]$ meson production in $[F_{\text{meson}}]$ collisions at $[F_{\text{meson}}]$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- XVI. **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, cilt.19, sa.11, 2024 (SCI-Expanded)
- XVII. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.16, ss.161805, 2024 (SCI-Expanded)
- XVIII. **Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ effective lifetime from proton-proton collisions at $s = 13$ TeV**

- Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XIX. **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, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XX. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$ TeV using leptonic W boson decays**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.9, 2024 (SCI-Expanded)
- XXI. **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, cilt.2024, sa.8, 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.
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- XXIII. **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.
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- XXIV. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXV. **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, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXVI. **Search for a light charged Higgs boson in the $H \rightarrow c\bar{c}$ channel 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., Fruhwirth R., et al.
PHYSICAL REVIEW D, cilt.102, sa.7, 2020 (SCI-Expanded)
- XXVII. **Observation of the Production of Three Massive Gauge Bosons 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., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.15, 2020 (SCI-Expanded)
- XXVIII. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.10, 2020 (SCI-Expanded)
- XXIX. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^{+}\mu^{-}$ in proton-proton 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.
PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- XXX. **Measurement of CKM matrix elements in single top quark t-channel production 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.

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

XXXI. Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at root 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, sa.8, 2020 (SCI-Expanded)

XXXII. Measurements of $(t\bar{t})$ 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, cilt.125, sa.6, 2020 (SCI-Expanded)

XXXIII. Search for resonant pair production of Higgs bosons in the $b\bar{b}Z$ channel in proton-proton collisions at root s=13 TeV

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

PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)

XXXIV. Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at root 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, cilt.102, sa.3, 2020 (SCI-Expanded)

XXXV. Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ 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.

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XXXVI. 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., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

XXXVII. The production of isolated photons in PbPb and pp collisions at root s(NN)=5.02 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

XXXVIII. Search for disappearing tracks 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, cilt.806, 2020 (SCI-Expanded)

XXXIX. Measurement of the cross section for $t(\bar{t})$ production with additional jets and b jets 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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2020 (SCI-Expanded)

XL. 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., Eroe J., Del Valle A. E., et al.

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- XLII. **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., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- XLIII. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
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 INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)
- XLIV. **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., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- XLV. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)
- XLVI. **A measurement of the Higgs boson mass in the diphoton decay channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- XLVII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2020 (SCI-Expanded)
- XLVIII. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at root s=13TeV 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, sa.6, 2020 (SCI-Expanded)
- XLIX. **Strange hadron production in pp and pPb collisions at root(NN)-N-s=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 C, cilt.101, sa.6, 2020 (SCI-Expanded)
- L. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at root s=13 TeV**
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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- LI. **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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- LII. **Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A.

- E., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.124, sa.20, 2020 (SCI-Expanded)
- LII. **Calibration of the CMS hadron calorimeters using proton-proton collision data 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 INSTRUMENTATION, cilt.15, sa.5, 2020 (SCI-Expanded)
- LIII. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
 Stojanovic M., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, cilt.982, ss.395-398, 2019 (SCI-Expanded)
- LIV. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2019 (SCI-Expanded)
- LV. **Search for the chiral magnetic effect at the LHC with the CMS experiment**
 Tu Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, cilt.982, ss.527-530, 2019 (SCI-Expanded)
- LVI. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, cilt.789, ss.643-665, 2019 (SCI-Expanded)
- LVII. **Multiparticle correlations and higher order harmonics in pPb collisions at root s(NN)=8.16 TeV**
 Wang Q., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, cilt.982, ss.375-378, 2019 (SCI-Expanded)
- LVIII. **D-0-Meson R-AA in PbPb Collisions at root s(NN)=5.02 TeV and Elliptic Flow in pPb Collisions at root s(NN)=8.16 TeV with CMS**
 Shi Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, cilt.982, ss.647-650, 2019 (SCI-Expanded)
- LIX. **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., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.789, ss.19-44, 2019 (SCI-Expanded)
- LX. **Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**
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- LXX. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
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- LXXV. **Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXVI. **Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXVII. **Search for high-mass Z gamma resonances in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV using jet substructure techniques**
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- LXXX. **Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- XC. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**
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- XCII. **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**
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- XCIII. **Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at root s=8 TeV**
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- XCIII. **Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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- XCIV. **Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**
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- XCIV. Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- XCV. Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- XCVI. Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV and impact on parton distribution functions**
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- XCVII. Measurement of the cross section for electroweak production of Z gamma in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- XCVIII. Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s}=13$ TeV**
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- C. Search for $t(\bar{t})$ resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CI. Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CII. Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
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- CIII. Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV**
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- CIV. Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s}=13$ TeV**
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- CV. Measurement of the jet mass in highly boosted $t(\bar{t})$ events from pp collisions at $\sqrt{s}=13$ TeV**

s=8TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.7, 2017 (SCI-Expanded)

- CVI. **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV**

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- CVII. **Measurement of electroweak-induced production of W gamma with two jets in pp collisions at root s=8TeV and constraints on anomalous quartic gauge couplings**

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

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- CVIII. **Search for dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter and other models**

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

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- CIX. **Measurement of differential cross sections for top quark pair production using the lepton plus jets final state in proton-proton collisions at 13 TeV**

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

PHYSICAL REVIEW D, cilt.95, sa.9, 2017 (SCI-Expanded)

- CX. **Searches for pair production of third-generation squarks in root s=13 TeV pp collisions**

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- CXI. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**

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

PHYSICS LETTERS B, cilt.768, ss.137-162, 2017 (SCI-Expanded)

- CXII. **Search for narrow resonances in dilepton mass spectra in proton-proton collisions at root s=13 TeV and combination with 8 TeV data**

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

PHYSICS LETTERS B, cilt.768, ss.57-80, 2017 (SCI-Expanded)

- CXIII. **A search for new phenomena in pp collisions at root s=13TeV in final states with missing transverse momentum and at least one jet using the alpha(T) variable**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)

- CXIV. **Measurement of the top quark mass using single top quark events in proton-proton collisions at root s=8 TeV**

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

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- CXV. **Observation of gamma(1S) pair production in proton-proton collisions at root s=8 TeV**

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

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

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

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- CXVII. **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**

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

PHYSICS LETTERS B, cilt.768, ss.103-129, 2017 (SCI-Expanded)

- CXVIII. **Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.4, 2017 (SCI-Expanded)

- CXIX. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at $\sqrt{s}=8$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2017 (SCI-Expanded)

- CXX. **Relative Modification of Prompt psi(2S) and J/psi Yields from pp to PbPb Collisions at $\sqrt{s(NN)}=5.02$ 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, cilt.118, sa.16, 2017 (SCI-Expanded)

- CXXI. **Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=8$ TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.4, 2017 (SCI-Expanded)

- CXXII. **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., Eroe J., et al.

PHYSICS LETTERS B, cilt.767, ss.147-170, 2017 (SCI-Expanded)

- CXXIII. **Suppression and azimuthal anisotropy of prompt and nonprompt J/psi production in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.4, 2017 (SCI-Expanded)

- CXXIV. **Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s(NN)}=5.02$ 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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- CXXV. **Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s}=8$ TeV using the $\alpha(T)$ variable**

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

PHYSICS LETTERS B, cilt.767, ss.403-430, 2017 (SCI-Expanded)

- CXXVI. **Measurements of differential production cross sections for a Z boson in association with 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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2017 (SCI-Expanded)

CXXVII. Mechanical stability of the CMS strip tracker measured with a laser alignment system

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 INSTRUMENTATION, cilt.12, 2017 (SCI-Expanded)

CXXVIII. 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., Eroe J., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2017 (SCI-Expanded)

CXXIX. Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at root s=8 TeV

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

PHYSICAL REVIEW D, cilt.95, sa.5, 2017 (SCI-Expanded)

CXXX. Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at root s=13 TeV

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

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CXXXI. Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2017 (SCI-Expanded)

CXXXII. Search for CP violation in t(t)over-bar production and decay 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., Ero J., et al.

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CXXXIII. Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect

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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CXXXIV. 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., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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CXXXV. Measurement of the WZ production cross section in pp collisions at root s=13 TeV

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

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CXXXVI. Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at root s=8 TeV and cross section ratios to 2.76 and 7 TeV

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

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- CXXXVII. **Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying tau leptons and two jets in proton-proton collisions at root s=13 TeV**

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

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- CXXXVIII. **Evidence for collectivity in pp collisions at the LHC**

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- CXXXIX. **Measurement of the production cross section of a W boson in association with two b jets in pp collisions at root s=8TeV**

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

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- CXL. **Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at root s=8TeV**

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- CXLI. **Searches for invisible decays of the Higgs boson in pp collisions at root S=7, 8, and 13 TeV**

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

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- CXLII. **Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents 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.

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- CXLIII. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2017 (SCI-Expanded)

- CXLIV. **Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at root s=7 and 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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- CXLV. **Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV**

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

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- CXLVI. **Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology 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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- CXLVII. **The CMS trigger system**

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- JOURNAL OF INSTRUMENTATION, cilt.12, 2017 (SCI-Expanded)
- CXLVIII. **Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s}=8$ TeV**
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- CXLIX. **Search for high-mass Z gamma resonances in $e^{(+)}e^{(-)}\gamma$ and $\mu^{(+)}\mu^{(-)}\gamma$ final states in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV**
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- CL. **Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CLI. **Measurements of the $t(\bar{t})$ production cross section in lepton plus jets final states in pp collisions at 8 and ratio of 8 to 7 cross sections**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CLII. **Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=13$ TeV**
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 PHYSICAL REVIEW D, cilt.95, sa.1, 2017 (SCI-Expanded)
- CLIII. **Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CLIV. **Measurement of the mass of the top quark in decays with a J/psi meson in pp collisions 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.
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- CLV. **Measurement of the ZZ production cross section and $Z \rightarrow l^{(+)}l^{(-)}l'^{(+)}l'^{-}$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV**
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- CLVI. **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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- CLVII. **Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CLVIII. **Search for lepton flavour violating decays of the Higgs boson to e tau and e mu in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CLIX. **Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.94, sa.11, 2016 (SCI-Expanded)
- CLX. **Searches for R-parity-violating supersymmetry in pp collisions at root s=8 TeV in final states with 0-4 leptons**
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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- CLXI. **Search for dark matter particles in proton-proton collisions at root s = 8 TeV using the razor variables**
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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- CLXII. **Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets**
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- CLXIII. **Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at root s=8 TeV**
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- CLXIV. **Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at root s(NN)=2.76 TeV**
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- CLXV. **Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton plus jets final states produced in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.762, ss.512-534, 2016 (SCI-Expanded)
- CLXVI. **Measurement of the integrated and differential t(t)-bar production cross sections for high-p(T) top quarks in pp collisions at root s=8 TeV**
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PHYSICAL REVIEW D, cilt.94, sa.7, 2016 (SCI-Expanded)
- CLXVII. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 TeV**
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- CLXVIII. **Search for new physics with the M-T2 variable in all-jets final states produced in pp collisions at root s=13 TeV**
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- CLXIX. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 TeV**
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- CLXX. **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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- CLXXI. **Search for s channel single top quark production in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2016 (SCI-Expanded)
- CLXXII. **Measurements of t(t)over-bar charge asymmetry using dilepton final states in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CLXXIII. **Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width**
POLATÖZ A., EŞKUT E., GÖKBULUT G.
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- CLXXIV. **Measurement of the Z gamma -> nu(nu)over-bar gamma production cross section in pp collisions at root s=8 TeV and limits on anomalous ZZ gamma and Z gamma gamma trilinear gauge boson couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.760, ss.448-468, 2016 (SCI-Expanded)
- CLXXV. **Search for R-parity violating decays of a top squark in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.760, ss.178-201, 2016 (SCI-Expanded)
- CLXXVI. **Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, cilt.94, sa.5, 2016 (SCI-Expanded)
- CLXXVII. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, cilt.94, sa.5, 2016 (SCI-Expanded)
- CLXXVIII. **Measurement of dijet azimuthal decorrelation 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., Ero J., et al.
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- CLXXIX. **Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy 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., Ero J., et al.
PHYSICS LETTERS B, cilt.759, ss.9-35, 2016 (SCI-Expanded)
- CLXXX. **Search for new physics in same-sign dilepton events in proton-proton collisions at root s=13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,

- Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.8, 2016 (SCI-Expanded)
- CLXXXI. **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at root $s=13\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CLXXXII. **Measurement of the inelastic cross section in proton-lead collisions at root $s(\text{NN})=5.02\text{ TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.759, ss.641-662, 2016 (SCI-Expanded)
- CLXXXIII. **Study of Z boson production in pPb collisions at root $S\text{-NN}=5.02\text{ TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CLXXXIV. **Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons**
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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- CLXXXV. **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at root $s=8\text{ TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CLXXXVI. **Evidence for exclusive $\gamma\gamma \rightarrow W(+)\ W(-)$ production and constraints on anomalous quartic gauge couplings in pp collisions at and 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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- CLXXXVII. **Combined search for anomalous pseudoscalar HW couplings in $VH(H \rightarrow b\bar{b})$ production and $H \rightarrow VV$ decay**
Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., Friedl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.759, ss.672-696, 2016 (SCI-Expanded)
- CLXXXVIII. **Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at root $s=8\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.759, ss.479-500, 2016 (SCI-Expanded)
- CLXXXIX. **Measurement of the $t\bar{t}$ production cross section in the $e\mu$ channel in proton-proton collisions at root $s=7$ and 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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- CXC. **Measurement of the differential cross section and charge asymmetry for inclusive $pp \rightarrow W^{+/-} + X$ production at root $s=8\text{ TeV}$**
Khachatryan V. y., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.8, 2016 (SCI-Expanded)
- CXCI. **Search for supersymmetry in pp collisions at root $s=13\text{ TeV}$ in the single-lepton final state using the sum of masses of large-radius jets**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2016 (SCI-Expanded)

CXCII. Search for direct pair production of scalar top quarks in the single- and dilepton channels 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.

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2016 (SCI-Expanded)

CXCIII. Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 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, cilt.758, ss.152-180, 2016 (SCI-Expanded)

CXCIV. Measurement of inclusive jet production and nuclear modifications in pPb collisions at root s(NN)=5.02 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)

CXCV. Measurement of the W+W- cross section in pp collisions at root s=8 TeV and limits on anomalous gauge couplings

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

EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)

CXCVI. Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at root s=8 and 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.

PHYSICAL REVIEW LETTERS, cilt.117, sa.5, 2016 (SCI-Expanded)

CXCVII. Search for heavy resonances decaying to two Higgs bosons in final states containing four 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)

CXCVIII. Search for a low-mass pseudoscalar Higgs boson produced in association with a b(b)over-bar pair in pp collisions at root s=8 TeV

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

PHYSICS LETTERS B, cilt.758, ss.296-320, 2016 (SCI-Expanded)

CXCIX. Measurement of spin correlations in tt production using the matrix element method in the muon plus jets final state in pp collisions at root S=8 TeV

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

PHYSICS LETTERS B, cilt.758, ss.321-346, 2016 (SCI-Expanded)

CC. Search for Narrow Resonances in Dijet Final States at root s=8 TeV with the Novel CMS Technique of Data Scouting

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

PHYSICAL REVIEW LETTERS, cilt.117, sa.3, 2016 (SCI-Expanded)

CCI. Measurement of t(t)over-bar production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at root s=8TeV

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

- EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.7, 2016 (SCI-Expanded)
- CCII. **Search for lepton flavour violating decays of heavy resonances and quantum black holes to an e mu pair 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.6, 2016 (SCI-Expanded)
- CCIII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCIV. **Inclusive and differential measurements of the t(t)-bar charge asymmetry in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.757, ss.154-179, 2016 (SCI-Expanded)
- CCV. **Measurement of the CP-violating weak phase phi(s) and the decay width difference Delta Gamma(s) using the B-s(0) -> J/psi phi (1020) decay channel in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.757, ss.97-120, 2016 (SCI-Expanded)
- CCVI. **Search for pair-produced vectorlike B quarks in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.93, sa.11, 2016 (SCI-Expanded)
- CCVII. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum 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.
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- CCVIII. **Measurement of the ratio B(B-s(0) -> J/psi f(0)(980))/B(B-s(0) -> J/psi phi(1020)) in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, cilt.756, ss.84-102, 2016 (SCI-Expanded)
- CCIX. **Measurement of the top quark mass using charged particles 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.
PHYSICAL REVIEW D, cilt.93, sa.9, 2016 (SCI-Expanded)
- CCX. **Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.5, 2016 (SCI-Expanded)
- CCXI. **Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.93, sa.9, 2016 (SCI-Expanded)
- CCXII. **Search for anomalous single top quark production in association with a photon 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.

- JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2016 (SCI-Expanded)
- CCXIII. **Measurement of the top quark mass using proton-proton data at $\sqrt{s}=7$**
 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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- CCXIV. **Search for W' decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s}=8$ 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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- CCXV. **Search for massive WH resonances decaying into the $l\nu b(\bar{b})$ final state at $\sqrt{s}=8$ 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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- CCXVI. **Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau\tau$**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, cilt.755, ss.217-244, 2016 (SCI-Expanded)
- CCXVII. **Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s}=7$ and 8 TeV**
 The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCXVIII. **Search for heavy Majorana neutrinos in $e(+/-)e(+/-)+$ jets and $e(+/-)\mu(+/-)+$ jet events in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXIX. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW LETTERS, cilt.116, sa.17, 2016 (SCI-Expanded)
- CCXX. **Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Gheze V. M., et al.
 PHYSICS LETTERS B, cilt.755, ss.102-124, 2016 (SCI-Expanded)
- CCXXI. **Measurement of top quark polarisation in t-channel single top quark production**
 The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCXXII. **Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICAL REVIEW D, cilt.93, sa.5, 2016 (SCI-Expanded)
- CCXXIII. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.3, 2016 (SCI-Expanded)
- CCXXIV. **Measurements of $t(\bar{t})$ spin correlations and top quark polarization using dilepton final**

states in pp collisions at root s=8 TeV

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

PHYSICAL REVIEW D, cilt.93, sa.5, 2016 (SCI-Expanded)

CCXXV. Search for excited leptons 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., Eroev J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2016 (SCI-Expanded)

CCXXVI. Transverse momentum spectra of inclusive b jets in pPb collisions at root s(NN)=5.02 TeV

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

PHYSICS LETTERS B, cilt.754, ss.59-80, 2016 (SCI-Expanded)

CCXXVII. Measurement of the t(t)-bar production cross section in the all-jets final state 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., Eroev J., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.3, 2016 (SCI-Expanded)

CCXXVIII. Measurement of the Top Quark Pair Production Cross Section in Proton-Proton 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., Eroev J., et al.

PHYSICAL REVIEW LETTERS, cilt.116, sa.5, 2016 (SCI-Expanded)

CCXXIX. Measurement of the charge asymmetry in top quark pair production in pp collisions at root s=8 TeV using a template method

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

PHYSICAL REVIEW D, cilt.93, sa.3, 2016 (SCI-Expanded)

CCXXX. Search for a Higgs boson decaying into gamma*gamma -> ll gamma with low dilepton mass 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., Eroev J., et al.

PHYSICS LETTERS B, cilt.753, ss.341-362, 2016 (SCI-Expanded)

CCXXXI. Search for Narrow Resonances Decaying to Dijets in Proton-Proton 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., Eroev J., et al.

PHYSICAL REVIEW LETTERS, cilt.116, sa.7, 2016 (SCI-Expanded)

CCXXXII. Search for pair production of first and second generation leptoquarks 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., Eroev J., et al.

PHYSICAL REVIEW D, cilt.93, sa.3, 2016 (SCI-Expanded)

CCXXXIII. Search for W ' -> tb 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., Eroev J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2016 (SCI-Expanded)

CCXXXIV. Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at root s=8 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2016 (SCI-Expanded)

CCXXXV. Search for single production of scalar leptoquarks 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., Ero J., et al.
PHYSICAL REVIEW D, cilt.93, sa.3, 2016 (SCI-Expanded)
- CCXXXVI. **Correlations between jets and charged particles in PbPb and pp collisions at root s(NN)=2.76 TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.2, 2016 (SCI-Expanded)
- CCXXXVII. **Angular analysis of the decay $B^0 \rightarrow K^*(0)\mu^+\mu^-$ from 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., Ero J., et al.
PHYSICS LETTERS B, cilt.753, ss.424-448, 2016 (SCI-Expanded)
- CCXXXVIII. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.753, ss.363-388, 2016 (SCI-Expanded)
- CCXXXIX. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.1, 2016 (SCI-Expanded)
- CCXL. **Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root s(NN)=2.76 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2016 (SCI-Expanded)
- CCXLI. **Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, cilt.116, sa.3, 2016 (SCI-Expanded)
- CCXLII. **Search for vectorlike charge 2/3 T quarks 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., Ero J., et al.
PHYSICAL REVIEW D, cilt.93, sa.1, 2016 (SCI-Expanded)
- CCXLIII. **Observation of top quark pairs produced in association with a vector boson in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCXLIV. **Search for resonant $t\bar{t}$ production 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., Ero J., et al.
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- CCXLV. **Search for the production of an excited bottom quark decaying to tW 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., Ero J., et al.
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- CCXLVI. **Search for neutral MSSM Higgs bosons decaying to $\mu^+\mu^-$ in pp collisions at root s=7 and 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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- CCXLVII. **Reconstruction and identification of tau lepton decays to hadrons and $\nu(\tau)$ at CMS**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,
Dragicevic M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, cilt.11, 2016 (SCI-Expanded)
- CCXLVIII. **A search for pair production of new light bosons decaying into muons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,
Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.752, ss.146-168, 2016 (SCI-Expanded)
- CCXLIX. **Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons 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.
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- CCL. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root $s=13$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,
Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.751, ss.143-163, 2015 (SCI-Expanded)
- CCLI. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R.,
Ghete V. M., et al.
PHYSICAL REVIEW D, cilt.92, sa.11, 2015 (SCI-Expanded)
- CCLII. **Search for a light charged Higgs boson decaying to $c(s)\overline{c}$ 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.
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- CCLIII. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,
Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.750, ss.494-519, 2015 (SCI-Expanded)
- CCLIV. **Measurement of the differential cross section for top quark pair production in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R.,
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- CCLV. **Angular coefficients of Z bosons produced in pp collisions at root $S=8$ TeV and decaying to $\mu(+)\mu(-)$ as a function of transverse momentum and rapidity**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R.,
Ghete V. M., et al.
PHYSICS LETTERS B, cilt.750, ss.154-175, 2015 (SCI-Expanded)
- CCLVI. **Search for supersymmetry in the vector-boson fusion topology 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2015 (SCI-Expanded)
- CCLVII. **Study of W boson production in pPb collisions at root(NN)-N-S=5.02 TeV**
Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., Hartl C., Hoermann N., Hrubec J.,
et al.

- PHYSICS LETTERS B, cilt.750, ss.565-586, 2015 (SCI-Expanded)
- CCLVIII. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroev J., et al.
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- CCLIX. **Search for a charged Higgs boson in pp collisions at root s=8 TeV**
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- CCLX. **Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroev J., et al.
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- CCLXI. **Measurements of the ZZ production cross sections in the 2l2 nu channel in proton-proton collisions at root s=7 and 8 TeV and combined constraints on triple gauge couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CCLXII. **Search for supersymmetry with photons 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., Eroev J., et al.
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- CCLXIII. **Limits on the Higgs boson lifetime and width from its decay to four charged leptons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroev J., et al.
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- CCLXIV. **Comparison of the Z/gamma* plus jets to gamma plus jets cross sections 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., Eroev J., et al.
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- CCLXV. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.727, ss.101-125, 2013 (SCI-Expanded)
- CCLXVI. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
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- CCLXVII. **Angular analysis and branching fraction measurement of the decay B-0 -> K*(0)mu(+)mu(-)**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
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- CCLXVIII. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
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- CCLXIX. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
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- CCLXX. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
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- CCLXXI. **Search for a Higgs boson decaying into a Z and a photon in pp collisions at root s=7 and 8 TeV**
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- CCLXXII. **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**
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- CCLXXIII. **Measurement of the production cross section for Z gamma -> nu(nu)over-bar gamma in pp collisions at root s=7 TeV and limits on ZZ gamma and Z gamma gamma triple gauge boson couplings**
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- CCLXXIV. **Measurement of the W-boson helicity in top-quark decays from t(t)over-bar production in lepton plus jets events in pp collisions at root s=7 TeV**
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- CCLXXV. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
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- CCLXXVI. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
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- CCLXXVII. **Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at root s=7 TeV**
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- CCLXXIX. **Search for supersymmetry in hadronic final states with missing transverse energy using the variables alpha(T) and b-quark multiplicity in pp collisions at root s=8 TeV**

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- CCLXXX. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root s=7 TeV**
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- CCLXXXI. **Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**
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- :CLXXXIII. **Searches for Higgs bosons in pp collisions at root s=7 and 8 TeV in the context of four-generation and fermiophobic models**
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- :CLXXXIV. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root s=7 TeV**
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- CCLXXXV. **Search for microscopic black holes in pp collisions at root s=8 TeV**
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- :CLXXXVI. **Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at root s=7 TeV**
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- CLXXXVII. **Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions**
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- :LXXXVIII. **Study of exclusive two-photon production of W+W- in pp collisions at root s=7 TeV and constraints on anomalous quartic gauge couplings**
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- :CLXXXIX. **Measurement of the Lambda(0)(b) lifetime in pp collisions at root s=7 TeV**
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- CCXC. **Measurement of masses in the t(t)over-tilde system by kinematic endpoints in pp collisions at root s=7 TeV**

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- CCXCI. **Searches for long-lived charged particles in pp collisions at root s=7 and 8 TeV**
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- CCXCIII. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- CCXCIV. **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**
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- CCXCV. **Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV**
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- CCXCVI. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**
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- CCXCVII. **Measurement of the t(t)over-bar production cross section in the all-jet final state in pp collisions at root s=7 TeV**
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- CCXCVIII. **Studies of jet mass in dijet and W/Z plus jet events**
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- CCXCIX. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
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- CCC. **Measurement of the inelastic proton-proton cross section at root s=7 TeV**
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- CCCI. **Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV**
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- CCCII. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
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- CCCIII. **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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- CCCIV. **Search for fractionally charged particles in pp collisions at root s=7 TeV**
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- CCCV. **Event shapes and azimuthal correlations in Z plus jets events in pp collisions at root s=7 TeV**
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- CCCVI. **Search for anomalous production of highly boosted Z bosons decaying to mu(+)-mu(-) in proton-proton collisions at root s=7 TeV**
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- CCCVII. **Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network**
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- CCCVIII. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
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- CCCIX. **Search for Z ' resonances decaying to t(t)-bar in dilepton plus jets final states in pp collisions at root s=7 TeV**
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- CCCX. **Identification of b-quark jets with the CMS experiment**
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- CCCXI. **Measurement of the t(t)-bar production cross section in the tau plus jets channel in pp collisions at root s=7 TeV**
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- CCCXII. **Measurement of the W+W- and ZZ production cross sections in pp collisions at root s=8 TeV**
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- CCCXIII. **Measurement of the X(3872) production cross section via decays to $J/\psi \pi^+ \pi^-$ in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXIV. **Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC**
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- CCCXV. **Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76,$ and 7 TeV**
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- CCCXVI. **Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXVII. **Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- CCCXVIII. **Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV and $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- CCCXIX. **Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXX. **Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV**
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- CCCXXI. **Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXII. **Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXIII. **Search for contact interactions using the inclusive jet $p(T)$ spectrum in pp collisions at $\sqrt{s}=7$ TeV**
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PHYSICAL REVIEW D, cilt.87, sa.5, 2013 (SCI-Expanded)
- CCCXXIV. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at $\sqrt{s}=7$ TeV with lepton plus jets final states**

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- CCCXXV. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at $\sqrt{s}=7$ TeV**
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- CCCXXVI. **Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXVII. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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- :CCXXVIII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at $\sqrt{s}=7$ TeV**
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- CCCXXIX. **Search for contact interactions in $\mu^{+}\mu^{-}$ events in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CCCXXX. **Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CCCXXXI. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CCCXXXII. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- :CCXXXIII. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- :CCXXXIV. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.718, sa.3, ss.773-794, 2013 (SCI-Expanded)
- CCCXXXV. **Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or ≥ 3 b-quark jets in 7 TeV pp collisions using the variable $\alpha(T)$**
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- :CCXXXVI. **Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from 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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- CCXXXVII. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
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