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

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Education Information

Doctorate, Cukurova University, Fen Edebiyat Fakültesi/ Fen Bilimleri Enstitüsü, Fizik Bölümü/ Fizik Anabilim Dalı, Turkey 2007 - 2014

Masters (Non-Thesis), Cukurova University, Fen Bilimleri Enstitüsü, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Anabilim Dalı, Ortaöğretim Alan Öğretmenliği (Fizik), Turkey 2006 - 2007

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü/, Fizik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, TUBITAK ARDEB Programı Bilgilendirme ve Proje Önerisi Yazma Uygulamalı Eğitimi, Çukurova Üniversitesi, 2018

Education Management and Planning, COST (TN1302) Financial Management of EU Projects, University Politehnica of Bucharest, 2018

Education Management and Planning, H2020 Financial Management, Vrije University, 2017

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

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

Education Management and Planning, COST BESTPRAC Meeting - Working Group 2 (Finance), COST BESTPRAC Action, 2016

Education Management and Planning, Turkey in Horizon 2020 Project General Training, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Education Management and Planning, FP7 and Horizon2020 Master of Finance and Administration, Europa Media Trainings, 2015

Education Management and Planning, CERN- Fermilab Hadron Collider Physics Summer School, CERN (Conseil Européen pour la Recherche Nucléaire), 2013

Education Management and Planning, Beyond the Standard Model: Results with the 7 TeV LHC Collision Data, The Abdus

Salam International Centre for Theoretical Physics, 2011

Education Management and Planning, Physics Analysis Tools Course, CERN (Conseil Européen pour la Recherche Nucléaire), 2011

Dissertations

Doctorate, MOMENTUM SCALE CALIBRATION OF MUON TRACKS USING THE MUON PAIRS FROM J/Psi DECAYS AND INSTALLATION AND COMMISSIONING WORK IN CMS AT CERN, Cukurova University, Fen Edebiyat, Fizik Bolumu, 2014

Research Areas

Physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Cukurova University, Rektörlük, Proje Geliştirme Ve Koordinasyon Birimi, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13\text{ TeV}$ 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)
- V. **Search for new physics in high-mass diphoton events from 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.
Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- VI. **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)
- VII. **Search for dark QCD with emerging jets 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.

Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)

- VIII. **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)
- IX. **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)
- X. **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, vol.125, no.15, 2020 (SCI-Expanded)
- XI. **Search for a light charged Higgs boson in the $H \rightarrow c\bar{s}$ 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, vol.102, no.7, 2020 (SCI-Expanded)
- XII. **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, vol.125, no.10, 2020 (SCI-Expanded)
- XIII. **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, vol.808, 2020 (SCI-Expanded)
- XIV. **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., Ambrogio 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)
- XV. **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, no.8, 2020 (SCI-Expanded)
- XVI. **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., Ambrogio 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)
- XVII. **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., Ambrogio 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)
- XVIII. **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., Ambrogio 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)
- XIX. 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2020 (SCI-Expanded)
- XX. 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, vol.806, 2020 (SCI-Expanded)
- XXI. 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., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXII. 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., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXIII. 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, no.7, 2020 (SCI-Expanded)
- XXIV. 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)
- XXV. 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., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- XXVI. 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., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- XXVII. 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., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)
- XXVIII. 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., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- XXIX. 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., Ero J., Del Valle A. E., Flechl M., et al.

PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)

XXX. **Strange hadron production in pp and pPb collisions at $\sqrt{s}=5.02$ 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, vol.101, no.6, 2020 (SCI-Expanded)

XXXI. **Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive W^\pm and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV**

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.6, 2020 (SCI-Expanded)

XXXII. **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, vol.15, no.6, 2020 (SCI-Expanded)

XXXIII. **Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s}=13$ TeV**

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.20, 2020 (SCI-Expanded)

XXXIV. **Calibration of the CMS hadron calorimeters using proton-proton collision data 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 INSTRUMENTATION, vol.15, no.5, 2020 (SCI-Expanded)

XXXV. **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.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (SCI-Expanded)

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

Sirunyan A. 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.5, 2020 (SCI-Expanded)

XXXVII. **Multiparticle correlations and higher order harmonics in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV**

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

NUCLEAR PHYSICS A, vol.982, pp.375-378, 2019 (SCI-Expanded)

XXXVIII. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s_{NN}}=5.02$ 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.789, pp.643-665, 2019 (SCI-Expanded)

XXXIX. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**

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

NUCLEAR PHYSICS A, vol.982, pp.395-398, 2019 (SCI-Expanded)

XL. **Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**

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

NUCLEAR PHYSICS A, vol.982, pp.743-746, 2019 (SCI-Expanded)

XLI. **Search for the chiral magnetic effect at the LHC with the CMS experiment**

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

NUCLEAR PHYSICS A, vol.982, pp.527-530, 2019 (SCI-Expanded)

XLII. Fragmentation of J/ψ in jets in pp collisions at $\sqrt{s}=5.02$ TeV Batoul Diab for the CMS collaboration

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

NUCLEAR PHYSICS A, vol.982, pp.186-188, 2019 (SCI-Expanded)

XLIII. D-0-Meson R-AA in PbPb Collisions at $\sqrt{s(NN)}=5.02$ TeV and Elliptic Flow in pPb Collisions at $\sqrt{s(NN)}=8.16$ TeV with CMS

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

NUCLEAR PHYSICS A, vol.982, pp.647-650, 2019 (SCI-Expanded)

XLIV. Measurement of differential cross sections for Z boson pair production in association with jets 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.

PHYSICS LETTERS B, vol.789, pp.19-44, 2019 (SCI-Expanded)

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)

XLVI. 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)

XLVII. 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)

XLVIII. Constraint on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s}=8$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2018 (SCI-Expanded)

XLIX. 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 $\sqrt{s}=13$ 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)

L. Search for supersymmetry in events with at least three electrons or muons, jets, 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., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2018 (SCI-Expanded)

LI. Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p plus Pb Collisions at the LHC

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.9, 2018 (SCI-Expanded)

- LII. **Search for Higgsino pair production in pp collisions at root s=13 TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H \rightarrow b\bar{b}$**
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 D, vol.97, no.3, 2018 (SCI-Expanded)
- LIII. **Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks**
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 D, vol.97, no.1, 2018 (SCI-Expanded)
- LIV. **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., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)
- LV. **Particle-flow reconstruction and global event description with the CMS detector**
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 INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- LVI. **Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at root s(NN)=2.76 TeV with the CMS experiment**
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.772, pp.489-511, 2017 (SCI-Expanded)
- LVII. **Cross section measurement of t-channel single top quark production in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.752-776, 2017 (SCI-Expanded)
- LVIII. **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., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)
- LIX. **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., Ambrogio E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)
- LX. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.306-329, 2017 (SCI-Expanded)
- LXI. **Search for single production of vector-like quarks decaying into a b quark and a W boson 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., Eroo J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.634-656, 2017 (SCI-Expanded)
- LXII. **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 root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., 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)
- LXIII. **Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at root s=13 TeV**
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- LXIV. **Search for a heavy resonance decaying to a top quark and a vector-like top quark at root s=13 TeV**
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- LXV. **Search for standard model production of four top quarks in proton-proton collisions at root s=13TeV**
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- LXVI. **Measurement of the $t(\bar{t})$ production cross section using events with one lepton and at least one jet in pp collisions at root s=13 TeV**
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- LXVII. **Search for high-mass Z gamma resonances in proton-proton collisions at root s=8 and 13 TeV using jet substructure techniques**
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- LXIX. **Measurement of the top quark mass in the dileptonic $t(\bar{t})$ decay channel using the mass observables M_{bl} , M_{T2} , and M_{blv} in pp collisions at root=8 TeV**
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- LXXIII. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02**

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LXXIV. **Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV**

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LXXV. **Search for top quark partners with charge 5/3 in proton-proton collisions at root s=13 TeV**

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LXXVI. **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at root S=13 TeV**

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LXXVII. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**

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LXXVIII. **Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at root s=13 TeV**

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LXXIX. **Measurement of the jet mass in highly boosted t(t)over-bar events from pp collisions at root s=8TeV**

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LXXX. **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=5.02 TeV**

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LXXXI. **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 root s=13 TeV**

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LXXXII. **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 root s=8 TeV**

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LXXXIII. **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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- LXXXIV. **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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- LXXXV. **Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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- LXXXVII. **Measurement of double-differential cross sections for top quark pair production in pp collisions at root s=8 TeV and impact on parton distribution functions**
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- LXXXVIII. **Search for new physics with dijet angular distributions in proton-proton collisions at root S = 13 TeV**
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- LXXXIX. **Search for t(t)over-bar resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at root s=13 TeV**
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- XC. **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV**
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- XCI. **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**
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- XCII. **Search for dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter and other models**
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- XCIII. **Measurement of differential cross sections for top quark pair production using the lepton plus jets final state in proton-proton collisions at 13 TeV**
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- XCV. Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**
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- XCVI. 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 root s=13 TeV**
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- XCVII. Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**
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- XCVIII. Searches for pair production of third-generation squarks in root s=13 TeV pp collisions**
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- XCVIII. A search for new phenomena in pp collisions at root s=13 TeV in final states with missing transverse momentum and at least one jet using the alpha(T) variable**
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- XCIX. Measurement of the top quark mass using single top quark events in proton-proton collisions at root s=8 TeV**
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- C. Search for narrow resonances in dilepton mass spectra in proton-proton collisions at root s=13 TeV and combination with 8 TeV data**
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- CI. Observation of gamma(1S) pair production in proton-proton collisions at root s=8 TeV**
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- CII. Relative Modification of Prompt psi(2S) and J/psi Yields from pp to PbPb 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.
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- CIII. Suppression and azimuthal anisotropy of prompt and nonprompt J/psi production in PbPb collisions at root S-NN=2.76 TeV**
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- CIV. Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at root s=8 TeV**

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- CV. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at root s=8 TeV**
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- CVI. **Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at root s=8 TeV using the alpha(T) variable**
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- CVII. **Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**
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- CVIII. **Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at root s(NN)=5.02 TeV**
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- CIX. **Measurement of the WZ production cross section in pp collisions at root s=7 and 8 TeV and search for anomalous triple gauge couplings at root s=8 TeV**
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- CX. **Mechanical stability of the CMS strip tracker measured with a laser alignment system**
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- CXI. **Charged-particle nuclear modification factors in PbPb and pPb collisions at root s(NN)=5.02 TeV**
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- CXII. **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**
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- CXIII. **Measurement of the t(t)-bar production cross section using events in the e mu final state in pp collisions at root s=13 TeV**
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- CXIV. **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., Eroee J., et al.
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- CXV. Search for CP violation in $t(\bar{t})$ production and decay in proton-proton collisions at root $s=8$ TeV**
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- CXVI. Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**
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- CXVII. 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., Ero J., Flechl M., et al.
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- CXVIII. 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**
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- CXIX. Measurement of the WZ production cross section in pp collisions at root $s=13$ TeV**
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- CXX. 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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- CXXI. 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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- CXXII. 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., Ero J., et al.
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- CXXIII. Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at root $s=8$ TeV**
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- CXXIV. 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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- CXXV. 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.

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CXXVI. 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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CXXVII. Evidence for collectivity in pp collisions at the LHC

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, vol.765, pp.193-220, 2017 (SCI-Expanded)

CXXVIII. Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents 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., Ero J., et al.

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CXXIX. Measurement of the production cross section of a W boson in association with two b jets 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., Ero J., et al.

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CXXX. Inclusive search for supersymmetry using razor variables 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.

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CXXXI. Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ 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., Ero J., et al.

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CXXXII. The CMS trigger system

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

CXXXIII. Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology 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., Ero J., et al.

PHYSICAL REVIEW LETTERS, vol.118, no.2, 2017 (SCI-Expanded)

CXXXIV. Search for supersymmetry in events with one lepton and multiple jets in proton-proton 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 D, vol.95, no.1, 2017 (SCI-Expanded)

CXXXV. Search for R-parity violating supersymmetry with displaced vertices 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., Ero J., et al.

PHYSICAL REVIEW D, vol.95, no.1, 2017 (SCI-Expanded)

CXXXVI. 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., Ero J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.1, pp.1-27, 2017 (SCI-Expanded)

- CXXXVII. **Search for high-mass Z gamma resonances in $e^{+}e^{-}$ gamma and $\mu^{+}\mu^{-}$ gamma final states 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., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2017 (SCI-Expanded)

- CXXXVIII. **Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV**

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

PHYSICAL REVIEW D, vol.94, no.11, 2016 (SCI-Expanded)

- CXXXIX. **Search for long-lived charged particles 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.

PHYSICAL REVIEW D, vol.94, no.11, 2016 (SCI-Expanded)

- CXL. **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.

PHYSICAL REVIEW D, vol.94, no.11, 2016 (SCI-Expanded)

- CXLI. **Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets**

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, no.12, 2016 (SCI-Expanded)

- CXLII. **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., Ero J., et al.

PHYSICS LETTERS B, vol.763, pp.472-500, 2016 (SCI-Expanded)

- CXLIII. **Measurement of the ZZ production cross section and $Z \rightarrow l^{+}l^{-}l'^{+}l'^{-}$ branching fraction 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.

PHYSICS LETTERS B, vol.763, pp.280-303, 2016 (SCI-Expanded)

- CXLIV. **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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- CXLV. **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., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2016 (SCI-Expanded)

- CXLVI. **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.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2016 (SCI-Expanded)

- CXLVII. **Measurement of electroweak production of a W boson and two forward 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2016 (SCI-Expanded)
- CXLVIII. **Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton plus jets final states produced in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, vol.762, pp.512-534, 2016 (SCI-Expanded)
- CXLIX. **Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at root s(NN)=2.76 TeV**
Ruiz Vargas J. C., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CL. **Search for new physics with the M-T2 variable in all-jets final states produced 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2016 (SCI-Expanded)
- CLI. **Phenomenological MSSM interpretation of CMS searches 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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- CLII. **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**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, vol.94, no.7, 2016 (SCI-Expanded)
- CLIII. **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 Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.11, 2016 (SCI-Expanded)
- CLIV. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 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, vol.761, pp.31-52, 2016 (SCI-Expanded)
- CLV. **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., Eroe J., et al.
PHYSICAL REVIEW D, vol.94, no.5, 2016 (SCI-Expanded)
- CLVI. **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., Eroe J., et al.
PHYSICAL REVIEW D, vol.94, no.5, 2016 (SCI-Expanded)
- CLVII. **Measurements of t(t)-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., Eroe J., et al.
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- CLVIII. **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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- CLIX. **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, no.9, 2016 (SCI-Expanded)
- CLX. **Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width**
POLATÖZ A., EŞKUT E., GÖKBULUT G.
JOURNAL OF HIGH ENERGY PHYSICS, vol.9, no.51, pp.1-25, 2016 (SCI-Expanded)
- CLXI. **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, vol.760, pp.178-201, 2016 (SCI-Expanded)
- CLXII. **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, vol.760, pp.448-468, 2016 (SCI-Expanded)
- CLXIII. **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic 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.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.8, 2016 (SCI-Expanded)
- CLXIV. **Measurement of the inelastic cross section in proton-lead 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., Ero J., et al.
PHYSICS LETTERS B, vol.759, pp.641-662, 2016 (SCI-Expanded)
- CLXV. **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**
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, no.8, 2016 (SCI-Expanded)
- CLXVI. **Measurement of the differential cross section and charge asymmetry for inclusive pp -> W-+/- + X production 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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- CLXVII. **Combined search for anomalous pseudoscalar HW couplings in VH(H -> b(b)over-bar) production and H -> 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, vol.759, pp.672-696, 2016 (SCI-Expanded)
- CLXVIII. **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., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.8, 2016 (SCI-Expanded)
- CLXIX. **Evidence for exclusive gamma gamma -> 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., Ero J., et al
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2016 (SCI-Expanded)
- CLXX. **Measurement of the $t(\bar{t})$ over-bar production cross section in the $e\mu$ channel in proton-proton collisions at $\sqrt{s}=7$ 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, no.8, 2016 (SCI-Expanded)
- CLXXI. **Measurement of the double-differential inclusive jet cross section in proton-proton 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
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.8, 2016 (SCI-Expanded)
- CLXXII. **Study of Z boson production in 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., Ero J., et al
PHYSICS LETTERS B, vol.759, pp.36-57, 2016 (SCI-Expanded)
- CLXXIII. **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., Ero J., et al
PHYSICS LETTERS B, vol.759, pp.369-394, 2016 (SCI-Expanded)
- CLXXIV. **Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy 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., Ero J., et al
PHYSICS LETTERS B, vol.759, pp.9-35, 2016 (SCI-Expanded)
- CLXXV. **Search for supersymmetry in electroweak production with photons and large missing transverse energy 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., Ero J., et al
PHYSICS LETTERS B, vol.759, pp.479-500, 2016 (SCI-Expanded)
- CLXXVI. **Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=8$ 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., Ero J., et al
PHYSICAL REVIEW LETTERS, vol.117, no.3, 2016 (SCI-Expanded)
- CLXXVII. **Search for direct pair production of scalar top quarks in the single- and dilepton channels 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., Ero J., et al
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2016 (SCI-Expanded)
- CLXXVIII. **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., Ero J., et al
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)
- CLXXIX. **Measurement of the $W+W^-$ cross section in pp collisions at $\sqrt{s}=8$ 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., Ero J., et al
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)
- CLXXX. **Measurement of spin correlations in $t\bar{t}$ 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., Eroe J., et al.

PHYSICS LETTERS B, vol.758, pp.321-346, 2016 (SCI-Expanded)

CLXXXI. 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., Eroe J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)

CLXXXII. 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., Eroe J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)

CLXXXIII. 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., Eroe J., et al.

PHYSICS LETTERS B, vol.758, pp.152-180, 2016 (SCI-Expanded)

CLXXXIV. 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., Eroe J., et al.

PHYSICS LETTERS B, vol.758, pp.296-320, 2016 (SCI-Expanded)

CLXXXV. 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., Ero J., et al.

PHYSICAL REVIEW LETTERS, vol.117, no.5, 2016 (SCI-Expanded)

CLXXXVI. 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, vol.76, no.6, 2016 (SCI-Expanded)

CLXXXVII. 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.

PHYSICS LETTERS B, vol.757, pp.6-31, 2016 (SCI-Expanded)

:LXXXVIII. 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, vol.757, pp.97-120, 2016 (SCI-Expanded)

CLXXXIX. Inclusive and differential measurements of the t(t)over-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, vol.757, pp.154-179, 2016 (SCI-Expanded)

CXC. 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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- CXCI. **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, vol.93, no.11, 2016 (SCI-Expanded)
- CXCII. **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, vol.93, no.9, 2016 (SCI-Expanded)
- CXCIII. **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, vol.93, no.9, 2016 (SCI-Expanded)
- CXCIV. **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, vol.76, no.5, 2016 (SCI-Expanded)
- CXCV. **Measurement of the ratio $B(B\text{-}s(0) \rightarrow J/\psi f(0)(980))/B(B\text{-}s(0) \rightarrow J/\psi \phi(1020))$ in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R.,
Ghete V. M., et al.
PHYSICS LETTERS B, vol.756, pp.84-102, 2016 (SCI-Expanded)
- CXCVI. **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, no.4, 2016 (SCI-Expanded)
- CXCVII. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations 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., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.116, no.17, 2016 (SCI-Expanded)
- CXCVIII. **Search for massive WH resonances decaying into the $l \nu b(\bar{b})$ final state at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,
Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.5, 2016 (SCI-Expanded)
- CXCIX. **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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- CC. **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, vol.755, pp.217-244, 2016 (SCI-Expanded)
- CCI. **Search for $W' \rightarrow \tau \nu$ decaying to tau lepton and neutrino 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.
PHYSICS LETTERS B, vol.755, pp.196-216, 2016 (SCI-Expanded)

- CCII. **Search for new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
 PHYSICS LETTERS B, vol.755, pp.102-124, 2016 (SCI-Expanded)
- CCIII. **Measurement of the top quark mass using proton-proton data at root(s)=7**
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- CCLXXIV. **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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- CCLXXV. **Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions**
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- CCLXXVI. **Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV**
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- CCLXXVII. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**
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- CCLXXVIII. **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.
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- CCLXXIX. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- CCLXXX. **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.
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- CCLXXXI. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CCLXXXII. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- :CLXXXIII. **Search for fractionally charged particles in pp collisions at root s=7 TeV**
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- :CLXXXIV. **Studies of jet mass in dijet and W/Z plus jet events**
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- CCLXXXV. **Measurement of the inelastic proton-proton cross section at root s=7 TeV**
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- :CLXXXVI. **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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- CLXXXVII. **Event shapes and azimuthal correlations in Z plus jets events in pp collisions at root s=7 TeV**
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- :LXXXVIII. **Search for anomalous production of highly boosted Z bosons decaying to mu(+)-mu(-) in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- :CLXXXIX. **Measurement of the t(t)-bar production cross section in the all-jet final state in pp collisions at root s=7 TeV**
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- CCXC. **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**
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.722, pp.207-232, 2013 (SCI-Expanded)

- CCXCI. **Measurement of the $W+W^-$ and ZZ production cross sections in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.721, pp.190-211, 2013 (SCI-Expanded)
- CCXCII. **Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network**
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.7, 2013 (SCI-Expanded)
- CCXCIII. **Measurement of the $X(3872)$ production cross section via decays to $J/\psi \pi^+\pi^-$ 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., Ero J., Fabjan C., et al.
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- CCXCIV. **Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76,$ 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.
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- CCXCV. **Search for pair-produced dijet resonances in four-jet final states 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., Eroe J., Fabjan C., et al.
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- CCXCVI. **Measurement of the $t(\bar{t})$ production cross section in the tau plus jets channel 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., Eroe J., Fabjan C., et al.
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- CCXCVII. **Search for Z' resonances decaying to $t(\bar{t})$ in dilepton plus jets final states 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., Eroe J., Fabjan C., et al.
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- CCXCVIII. **Identification of b-quark jets with the CMS experiment**
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- CCXCIX. **Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CCC. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s}=7$ TeV**
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PHYSICAL REVIEW LETTERS, vol.110, no.17, 2013 (SCI-Expanded)
- CCCI. **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., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.720, pp.63-82, 2013 (SCI-Expanded)
- CCCII. **Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse**

energy in proton-proton collisions at root s=7 TeV

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

PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)

CCCCIII. Search for contact interactions using the inclusive jet p(T) spectrum 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.

PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)

CCCCIV. Measurement of the t(t)-bar production cross section in pp collisions at root s=7 TeV with lepton plus jets final states

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, vol.720, pp.83-104, 2013 (SCI-Expanded)

CCCCV. Measurement of differential top-quark-pair production cross sections in pp collisions at root s=7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)

CCCCVI. Search for excited leptons 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, vol.720, pp.309-329, 2013 (SCI-Expanded)

CCCCVII. Search for new physics in events with same-sign dileptons and b jets 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., Eroev J., Fabjan C., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2013 (SCI-Expanded)

CCCCVIII. Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at root s=7 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2013 (SCI-Expanded)

CCCCIX. Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)

CCCCX. Search in leptonic channels for heavy resonances decaying to long-lived neutral particles

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2013 (SCI-Expanded)

CCCCXI. Search for contact interactions in mu(+)-mu(-) events in pp collisions at root s = 7 TeV

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

PHYSICAL REVIEW D, vol.87, no.3, 2013 (SCI-Expanded)

CCCCXII. Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at root s 7 TeV

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

PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)

CCCCXIII. 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., Eroev J.,

- Fabjan C., et al.
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- CCCXIV. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
 PHYSICS LETTERS B, vol.719, pp.42-61, 2013 (SCI-Expanded)
- CCCXV. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CCCXVI. **Search for exotic resonances decaying into WZ/ZZ 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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- CCCXVII. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-barl(+)l(-) final state**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
 PHYSICS LETTERS B, vol.718, pp.1208-1228, 2013 (SCI-Expanded)
- CCCXVIII. **Observation of a diffractive contribution to dijet production in proton-proton collisions at root s = 7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
 PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)
- CCCXIX. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
 Chatrchyan S., Collaboration C. M. S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CCCXX. **Search for heavy quarks decaying into a top quark and a W or Z boson using lepton plus jets events 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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- CCCXXI. **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)**
 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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- CCCXXII. **Search for a W ' boson decaying to a bottom quark and a top quark in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CCCXXIII. **Measurement of the ZZ production cross section and search for anomalous couplings in 2l2l' final states 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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- CCCXXIV. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root**

$s(\text{NN})=2.76$ TeV

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

PHYSICAL REVIEW C, vol.87, no.1, 2013 (SCI-Expanded)

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

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

PHYSICS LETTERS B, vol.718, no.3, pp.752-772, 2013 (SCI-Expanded)

CCCXXVI. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root $s(\text{NN})=2.76$ TeV**

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

PHYSICS LETTERS B, vol.718, no.3, pp.773-794, 2013 (SCI-Expanded)

CCCXXVII. **Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root $s=7$ TeV**

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

PHYSICAL REVIEW LETTERS, vol.110, no.2, 2013 (SCI-Expanded)

:CCXXVIII. **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.

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

CCCXXIX. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root $S\text{-NN}=2.76$ TeV**

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

PHYSICAL REVIEW LETTERS, vol.110, no.4, 2013 (SCI-Expanded)

CCCXXX. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**

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

PHYSICS LETTERS B, vol.718, pp.1252-1272, 2013 (SCI-Expanded)

CCCXXXI. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**

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

PHYSICS LETTERS B, vol.718, no.3, pp.795-814, 2013 (SCI-Expanded)

CCCXXXII. **Search for resonant $t(\bar{t})$ production in lepton plus jets events in pp collisions at root $s=7$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)

:CCXXXIII. **Search for three-jet resonances in pp collisions at root $s=7$ TeV**

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

PHYSICS LETTERS B, vol.718, no.2, pp.329-347, 2012 (SCI-Expanded)

:CCXXXIV. **Combined search for the quarks of a sequential fourth generation**

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

PHYSICAL REVIEW D, vol.86, no.11, 2012 (SCI-Expanded)

CCCXXXV. **Measurement of the single-top-quark t-channel cross section 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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- :CCXXXVI. **Measurement of the relative prompt production rate of $\chi(c2)$ and $\chi(c1)$ 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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- CCXXXVII. **Observation of Z decays to four leptons with the CMS detector at the LHC**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- :CXXXVIII. **A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider**
 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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- :CCXXXIX. **Measurement of the top-quark mass in $t(\bar{t})$ over-bar events with lepton plus jets final states in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroë J., Fabjan C., et al.
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- CCCXL. **Study of the Dijet Mass Spectrum in $pp \rightarrow W + \text{jets}$ Events 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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- CCCXLI. **Search for third-generation leptoquarks and scalar bottom quarks 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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- CCCXLII. **Search for pair produced fourth-generation up-type quarks in pp collisions at root $s=7$ TeV with a lepton in the final state**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroë J., Fabjan C., et al.
 PHYSICS LETTERS B, vol.718, no.2, pp.307-328, 2012 (SCI-Expanded)
- CCCXLIII. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive $e(+)\bar{e}(-)$ production in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- CCCXLIV. **Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at root $s=7$ TeV**
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Articles Published in Other Journals

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Supported Projects

GÖKBULUT G., EU Framework Program Project, ESSnuSB, 2018 - Continues

GÖKBULUT G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CMS Deneyinde Hadronik Kalorimetrenin Yenileme/İzlenimleri ve Fizik Analizleri, 2014 - Continues

Metrics

Publication: 437

Citation (WoS): 26161

Citation (Scopus): 22597

H-Index (WoS): 70

H-Index (Scopus): 77

Congress and Symposium Activities

Prospects in Neutrino Physics, Attendee, London, United Kingdom, 2017

TÜBİTAK 4007 Adana Bilim Şenliği, CERN ve Anti Madde, Atölye Lideri, Attendee, Adana, Turkey, 2016

Comparison of Xib in 2011 & 2012 Data, BPH WG Meeting, Attendee, Genève, Switzerland, 2013

2012 service studies for B Physics Group, ÇÜ HEP Meeting, Attendee, Adana, Turkey, 2013

CMS deneyinde 8 TeV enerjili proton-proton çarpışmalarında Xib- sinyalinin gözlenmesi, ÇÜ YEF Toplantısı, Attendee, Adana, Turkey, 2013

First results from 2011 MuScl fits to J/psi, B Physics Meeting, Attendee, Geneva, Turkey, 2012

Muon momentum scale with J/psi using MuSclFit, Muon POG Meeting, Attendee, Geneva, Switzerland, 2012

Solar and Atmospheric Neutrino Problems, 4th International Student Conference of the Balkan Physical Union (ISCBPU-4), Attendee, Bodrum, Turkey, 2006

Awards

GÖKBULUT G., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, 2012 yılı Bilimsel Aktivite Altın Ödülü, Çukurova Üniversitesi, February 2012

Non Academic Experience

Other, Cern

Other, Cern