

Prof. Dr. MEHMET TEVFİK ZEYREK

Kişisel Bilgiler

Fax Telefonu: [+90 312 210 1105](tel:+903122101105)

E-posta: zeyrek@metu.edu.tr

Web: <http://www.physics.metu.edu.tr/People/MehmetZeyrek>

Posta Adresi: Rektörlük ODTÜ 06800 Ankara

Uluslararası Araştırmacı ID'leri

ScholarID: qeDGaFIAAAAJ

ORCID: 0000-0002-9270-7403

Publons / Web Of Science ResearcherID: ABA-7235-2020

ScopusID: 6701455465

Yoksis Araştırmacı ID: 5268

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 1985 - 1991

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1982 - 1985

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1977 - 1982

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Genel alan ve parçacık teorisi, Özel parçacıkların özellikleri, Özel reaksiyonlar ve fenomenoloji, Özel teoriler ve etkileşme modelleri, parçacık sistematığı, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2003 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2003

Doç. Dr., Texas Tech University, College of Arts and Sciences, Physics and Astronomy, 2001 - 2002

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1996 - 1998

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1993 - 1996

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1982 - 1993

Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, 2016 - Devam Ediyor

Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2012 - 2016

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2012

Yönetilen Tezler

- ZEYREK M. T., Cross-section measurements of SC-43 and V-48 radioisotopes produced via Bern medical cyclotron, Yüksek Lisans, G.SÖKMEN(Öğrenci), 2017
- ZEYREK M. T., Measurements of standard model heavy particle production in association with jets using proton-proton collision data at 8 and 13 TeV with the CMS experiment at the LHC, Doktora, B.BİLİN(Öğrenci), 2017
- ZEYREK M. T., Search for supersymmetry (SUSY) with topological variables at the LHC, Yüksek Lisans, M.ÜNAL(Öğrenci), 2015
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- ZEYREK M. T., SERİN M., Search for Z' via forward backward asymmetry in dielectron channel with the CMS detector at the large hadron collider, Yüksek Lisans, M.ÖZGÜR(Öğrenci), 2012
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- ZEYREK M. T., Production of Z+jet and HF jet energy scale calibration at 7 TeV in the CMS experiment at LHC, Yüksek Lisans, B.BİLİN(Öğrenci), 2011
- ZEYREK M. T., QCD toplama kuralları çerçevesinde B mezonunun yarı leptonik K1(1270, 1400) geçişlerinin incelenmesi, Doktora, H.Dağ(Öğrenci), 2010
- ZEYREK M. T., Investigating the semileptonic B TO K1(1270; 1400) decays in QCD sum rules, Doktora, H.DAĞ(Öğrenci), 2010
- ZEYREK M. T., Study on non standard interaction of neutrino and unparticle physics with neutrino-electron scattering data at low energy in texono experiment, Yüksek Lisans, S.BİLMİŞ(Öğrenci), 2010
- ZEYREK M. T., Production of scalars at electron colliders in the context of the littlest Higgs model, Doktora, A.ÇAĞIL(Öğrenci), 2009
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8\text{Te}$ with the CMS and TOTEM experiments**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Valle A. E. D., et al.
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- II. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at root**

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- III. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- IV. **Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at root s=13 TeV**
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- V. **Search for decays of the 125 GeV Higgs boson into a Z boson and a rho or phi meson**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- VI. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**
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- VII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
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- VIII. **Measurement of $t(\bar{t})$ over-bar normalised multi-differential cross sections in pp collisions at root s=13 TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- IX. **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.
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- X. **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.
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- XI. **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.
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- XII. **Study of J/psi meson production inside jets in pp collisions at N root s=8 TeV The CM Collaboration**
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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- XIII. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV**
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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.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.5, 2020 (SCI-Expanded)
- XIV. **Search for high mass dijet resonances with a new background prediction method 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.
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- XV. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
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.
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- XVI. **Search for dark matter particles produced in association with a Higgs boson 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, cilt.2020, sa.3, 2020 (SCI-Expanded)
- XVII. **A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
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- XVIII. **Bose-Einstein correlations of charged hadrons 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.
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- XIX. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- XX. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXI. **Combined search for supersymmetry with photons 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.
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- XXII. **Multiparticle correlation studies in pPb collisions $\sqrt{s(NN)}=8.16$ 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.
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- XXIII. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
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.

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- XXIV. **Observation of nuclear modifications in W - $+$ / $-$ boson production in pPb collisions at $\sqrt{s(NN)}=8.16$ 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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- XXV. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s}=13$ TeV**
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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- XXVI. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- XXVII. **Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
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- XXVIII. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=5.44$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.799, 2019 (SCI-Expanded)
- XXIX. **Probing the chiral magnetic wave in pPb and PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV using charge-dependent azimuthal anisotropies**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- XXX. **The Belle II physics book**
Kou E., Urquijo P., Altmannshofer W., Beaujean F., Bell G., Beneke M., Bigi I. I., Bishara F., Blanke M., Bobeth C., et al.
Progress of Theoretical and Experimental Physics, cilt.2019, sa.12, 2019 (SCI-Expanded)
- XXXI. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- XXXII. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXXIII. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXXIV. **Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

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- XXXV. **Search for new physics in top quark production in dilepton final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXXVI. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at=13 TeV**
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, cilt.2019, sa.11, 2019 (SCI-Expanded)
- XXXVII. **Search for supersymmetry using Higgs boson to diphoton decays at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXXVIII. **Measurement of the top quark polarization and $t(\bar{t})$ over-bar spin correlations using dilepton final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XXXIX. **Search for resonances decaying to a pair of Higgs bosons in the $b(\bar{b})$ over-bar $q(\bar{q})$ over-bar ' l nu final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
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- XL. **Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- XLI. **Charged-particle angular correlations in XeXe collisions at root s(NN)=5.44 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XLII. **Measurement of the top quark Yukawa coupling from $t(\bar{t})$ over-bar kinematic distributions in the lepton plus jets final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XLIII. **A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV**
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- XLIV. **Search for vectorlike leptons in multilepton final states in proton-proton collisions at root s=13 TeV**
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PHYSICAL REVIEW D, cilt.100, sa.5, 2019 (SCI-Expanded)
- XLV. **Measurement of $B\text{-}s(0)$ meson production in pp and PbPb collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

Valle A. E., et al.

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- XLVI. **Measurement of electroweak WZ boson production and search for new physics in WZ plus two jets events in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.795, ss.281-307, 2019 (SCI-Expanded)
- XLVII. **Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at p root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- XLVIII. **Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW C, cilt.100, sa.2, 2019 (SCI-Expanded)
- XLIX. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV**
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, cilt.795, ss.398-423, 2019 (SCI-Expanded)
- L. **Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- LI. **Performance of missing transverse momentum reconstruction in proton-proton collisions at root s=13 TeV using the CMS detector**
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- LIII. **Studies of Beauty Suppression via Nonprompt D-0 Mesons in Pb-Pb Collisions at root s(NN)=5.02 TeV**
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- LIV. **An embedding technique to determine tau tau backgrounds in proton-proton collision data**
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- LVI. **Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at root s=8 and 13 TeV**
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- LVII. **Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state**
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- LXI. **Measurement of inclusive very forward jet cross sections in proton-lead collisions at p sNN=5:02 TeV**
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- LXV. **Search for a W ' boson decaying to a tau lepton and a neutrino in proton-proton collisions at root s=13 TeV**
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- LXVI. **Combinations of single-top-quark production cross-section measurements and vertical bar**

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LXVII. Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at root s=13 TeV

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LXVIII. Observation of prompt J/psi meson elliptic flow in high-multiplicity pPb collisions at root s(NN)=8.16 TeV

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LXIX. Search for excited leptons in final states in proton-proton collisions at root s=13 TeV

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LXX. Search for W Boson Decays to Three Charged Pions

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LXXI. Measurements of properties of the Higgs boson decaying to a Wboson pair in pp collisions at root s=13 TeV

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LXXII. Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at root s=13 TeV

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LXXIII. Search for resonant t(t)over-bar production in proton-proton collisions at root s=13 TeV

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LXXIV. Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at root s=13 TeV

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LXXV. Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at root S-NN=5.02 TeV

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LXXVI. Search for nonresonant Higgs boson pair production in the b(b)over-barb(b)over-bar final state at root s=13 TeV

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LXXVII. Measurements of the pp WZ inclusive and differential production cross sections and constraints on

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

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LXXIX. Search for the pair production of light top squarks in the $e(+/-)\mu(-/+)$ final state in proton-proton collisions at root $s=13$ TeV

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

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

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

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LXXXII. Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $s=13$ TeV

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LXXXIII. Search for Narrow H γ Resonances in Proton-Proton Collisions at root $s=13$ TeV

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LXXXIV. Search for $t(\bar{t})$ production in the $H \rightarrow b(\bar{b})$ decay channel with leptonic $t(\bar{t})$ decays in proton-proton collisions at root $s=13$ TeV

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LXXXV. Search for pair production of first-generation scalar leptoquarks at root $s=13$ TeV

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LXXXVI. Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at root $s=13$ TeV

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

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- LXXXVIII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**
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- LXXXIX. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- XC. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at $\sqrt{s}=13$ TeV**
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- XCI. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- XCII. **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**
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- XCIII. **Measurements of $t(\bar{t})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons**
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- XCIV. **Search for the chiral magnetic effect at the LHC with the CMS experiment**
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- XCV. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
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- XCVI. **Search for new particles decaying to a jet and an emerging jet**
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- XCVII. **Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=8$ and 13 TeV**
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- XCVIII. **Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV**
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- XCIX. **Multiparticle correlations and higher order harmonics in pPb collisions at $\sqrt{s(NN)}=8.16$ TeV**
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- C. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CI. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CII. **Evidence for light-by-light scattering in ultraperipheral PbPb collisions at $\sqrt{S-NN}=5.02$ TeV**
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- CIII. **Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**
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- CIV. **Fragmentation of J/psi in jets in pp collisions at $\sqrt{s}=5.02$ TeV Batoul Diab for the CMS collaboration**
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- CV. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{S-NN}=5.02$ TeV**
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- CVI. **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CVII. **Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CVIII. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CIX. **Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CX. **Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root $s=13$ TeV**
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- CXI. **Search for pair-produced three-jet resonances in proton-proton collisions at root $s=13$ TeV**
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- CXII. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root $s=13$ TeV**
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- CXIII. **Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state in pp collisions at root $s=13$ TeV**
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- CXIV. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root $s=13$ TeV**
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- CXV. **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**
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- CXVI. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root $s=13$ TeV**
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- CXVII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root $s=13$ TeV**
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- CXVIII. **Angular analysis of the decay $B^+ \rightarrow K^+\mu^+\mu^-$ in proton-proton collisions at root $s=8$ TeV**
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- CXIX. **Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at root $s(NN)=5.02$ TeV Using Isolated Photon-Tagged Jets**
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, cilt.121, sa.24, 2018 (SCI-Expanded)
- CXX. **Event shape variables measured using multijet final states in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2018 (SCI-Expanded)
- CXXI. **Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXII. **Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXIII. **Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions a root s=13 TeVt**
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- CXXIV. **Measurement of jet substructure observables in t(t)over-bar events from proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXV. **Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton -proton collisions at=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXVI. **Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CXXVII. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXVIII. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXIX. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two tau leptons in proton-proton collisions at TeV**
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- CXXX. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CXXXI. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
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- CXXXII. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**
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- CXXXIII. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at root s=13 TeV**
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- CXXXIV. **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CXXXV. **Performance of reconstruction and identification of tau leptons decaying to hadrons and nu(tau) in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CXXXVI. **Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two bquarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS Collaboration**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CXXXVII. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CXXXVIII. **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW C, cilt.98, sa.4, 2018 (SCI-Expanded)
- CXXXIX. **Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CXL. **Precision measurement of the structure of the CMS inner tracking system using nuclear interactions**
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- CXLI. **Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic

- M., Eroo J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.14, 2018 (SCI-Expanded)
- CXLII. **Study of jet quenching with isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=5.02 TeV**
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PHYSICS LETTERS B, cilt.785, ss.14-39, 2018 (SCI-Expanded)
- CXLIII. **Observation of the Z -> psi l(+)l(-) Decay in pp Collisions at root s=13 TeV**
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- CXLIV. **Measurement of the groomed jet mass in PbPb and pp collisions at root s(NN)=5:02 TeV**
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- CXLV. **Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2018 (SCI-Expanded)
- CXLVI. **Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2l2q final states at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CXLVII. **Observation of Higgs Boson Decay to Bottom Quarks**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.12, 2018 (SCI-Expanded)
- CXLVIII. **Search for Z gamma resonances using leptonic and hadronic final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CXLIX. **Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV**
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- CL. **Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at root s=13 TeV**
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- CLI. **Neutron background measurements with a hybrid neutron detector at the Kuo-Sheng Reactor Neutrino Laboratory**
Sonay A., DENİZ M., Wong H. T., Agartioğlu M., Asryan G., Chen J. H., KERMAN S., Li H. B., Li J., Lin F. K., et al.
PHYSICAL REVIEW C, cilt.98, sa.2, 2018 (SCI-Expanded)
- CLII. **Observation of the chi(b1)(3P) and chi(b2)(3P) and Measurement of their Masses**
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- PHYSICAL REVIEW LETTERS, cilt.121, sa.9, 2018 (SCI-Expanded)
- CLIII. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CLIV. **Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at root s=13 TeV**
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PHYSICAL REVIEW D, cilt.98, sa.3, 2018 (SCI-Expanded)
- CLV. **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- CLVI. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.6, 2018 (SCI-Expanded)
- CLVII. **Search for R-parity violating supersymmetry in pp collisions at root s=13 TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.783, ss.114-139, 2018 (SCI-Expanded)
- CLVIII. **Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CLIX. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root(NN)-N-s=8.16 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.121, sa.8, 2018 (SCI-Expanded)
- CLX. **Search for beyond the standard model Higgs bosons decaying into a b(b)over-bar pair in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- CLXI. **Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CLXII. **Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)
- CLXIII. **Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and**

constraints on dark matter mediators and other new particles

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2018 (SCI-Expanded)

CLXIV. Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)

CLXV. Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, cilt.782, ss.440-467, 2018 (SCI-Expanded)

CLXVI. Search for a heavy resonance decaying into a Z boson and a vector boson in the $v(v)\overline{b}q(q)\overline{b}$ final state

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)

CLXVII. Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp 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., Eroo J., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.7, 2018 (SCI-Expanded)

CLXVIII. Nuclear modification factor of D-0 mesons 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., Eroo J., et al.

PHYSICS LETTERS B, cilt.782, ss.474-496, 2018 (SCI-Expanded)

CLXIX. Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)

CLXX. Electroweak production of two jets in association with a Z boson in proton-proton collisions $\sqrt{s}=13$ TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.7, 2018 (SCI-Expanded)

CLXXI. Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)

CLXXII. Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2018 (SCI-Expanded)

CLXXIII. Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)

- CLXXIV. **Search for single production of a vector- like T quark decaying to a Z boson and a top quark in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.781, ss.574-600, 2018 (SCI-Expanded)
- CLXXV. **Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0} \mu^{+} \mu^{-}$ in proton-proton collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.781, ss.517-541, 2018 (SCI-Expanded)
- CLXXVI. **Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW C, cilt.97, sa.6, 2018 (SCI-Expanded)
- CLXXVII. **Search for excited quarks of light and heavy flavor in gamma plus jet final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.781, ss.390-411, 2018 (SCI-Expanded)
- CLXXVIII. **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXIX. **Search for $t(\bar{t})$ production in the all-jet final state in proton-proton collisions root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXX. **Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXXI. **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.24, 2018 (SCI-Expanded)
- CLXXXII. **Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CLXXXIII. **Observation of $(t\bar{t})$ Production**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.23, 2018 (SCI-Expanded)
- CLXXXIV. **Search for lepton flavour violating decays of the Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXXV. **Search for high-mass resonances in final states with a lepton and missing transverse momentum at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXXVI. **Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2018 (SCI-Expanded)
- CLXXXVII. **Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- .LXXXVIII. **Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**
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- CLXXXIX. **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at root s=13 TeV**
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- CXC. **Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV**
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- CXCII. **Search for new long-lived particles at root s=13 TeV**
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- CXCIV. **Search for natural and split supersymmetry in proton-proton collisions at root s=13 TeV in final states with jets and missing transverse momentum**
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- CCII. **Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state root s=13 TeV**
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- CCIV. **Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at root s=13 TeV**
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- CCV. **Measurement of quarkonium production cross sections in pp collisions at root s=13 TeV**
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- CCVI. **Search for gauge-mediated supersymmetry in events with at least one photon and missing**

transverse momentum in pp collisions at $\sqrt{s}=13$ TeV

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CCVII. Measurement of normalized differential $t(\bar{t})$ cross sections in the dilepton channel from pp 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.

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CCVIII. Search for supersymmetry with Higgs boson to diphoton decays using the razor variables 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.

PHYSICS LETTERS B, cilt.779, ss.166-190, 2018 (SCI-Expanded)

CCIX. Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector

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CCX. Measurement of the $\Lambda(b)$ polarization and angular parameters in $\Lambda(b) \rightarrow J/\psi \Lambda$ decays from pp collisions at $\sqrt{s}=7$ and 8 TeV

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

PHYSICAL REVIEW D, cilt.97, sa.7, 2018 (SCI-Expanded)

CCXI. Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e \mu$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV

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JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2018 (SCI-Expanded)

CCXII. Measurement of the associated production of a single top quark and a Z boson in pp 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.

PHYSICS LETTERS B, cilt.779, ss.358-384, 2018 (SCI-Expanded)

CCXIII. Search for pair production of vector-like quarks in the $bW(\bar{b}W)$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV

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PHYSICS LETTERS B, cilt.779, ss.82-106, 2018 (SCI-Expanded)

CCXIV. Search for massive resonances decaying into WW , WZ , ZZ , qW , and qZ with dijet final states 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 D, cilt.97, sa.7, 2018 (SCI-Expanded)

CCXV. Suppression of Excited gamma States Relative to the Ground State in Pb-Pb 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.120, sa.14, 2018 (SCI-Expanded)

CCXVI. Combination of inclusive and differential $t(\bar{t})$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{S}=7$ and 8 TeV

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- CCXVII. **Measurement of the Splitting Function in \sqrt{s} and Pb-Pb Collisions at $\sqrt{s}=5.02$ TeV**
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PHYSICAL REVIEW LETTERS, cilt.120, sa.14, 2018 (SCI-Expanded)
- CCXVIII. **Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXIX. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**
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PHYSICAL REVIEW C, cilt.97, sa.4, 2018 (SCI-Expanded)
- CCXX. **Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8$ TeV**
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- CCXXI. **Measurement of the inclusive $t(\bar{t})$ cross section in pp collisions $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2018 (SCI-Expanded)
- CCXXII. **Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV**
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- CCXXIII. **Search for pair production of excited top quarks in the lepton plus jets final state The CMS Collaboration**
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, cilt.778, ss.349-370, 2018 (SCI-Expanded)
- CCXXIV. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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PHYSICS LETTERS B, cilt.778, ss.101-127, 2018 (SCI-Expanded)
- CCXXV. **Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2018 (SCI-Expanded)
- CCXXVI. **Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino 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.
PHYSICS LETTERS B, cilt.778, ss.263-291, 2018 (SCI-Expanded)

- CCXXVII. **Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at root s=13 TeV**
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- CCXXVIII. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV**
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- CCXXIX. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**
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- CCXXX. **Search for ZZ resonances in the 2l2v final state in proton-proton collisions at 13 TeV**
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- CCXXXI. **Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., Flechl M., et al.
European Physical Journal C, cilt.78, sa.3, 2018 (SCI-Expanded)
- CCXXXII. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- CCXXXIII. **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., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.7, 2018 (SCI-Expanded)
- CCXXXIV. **Constraintson the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root s=8TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
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- CCXXXV. **Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.2, 2018 (SCI-Expanded)
- CCXXXVI. **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, cilt.120, sa.9, 2018 (SCI-Expanded)
- CCXXXVII. **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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.97, sa.3, 2018 (SCI-Expanded)
- :CXXXVIII. **Search for top squarks and dark matter particles in opposite-charge dilepton final states at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.97, sa.3, 2018 (SCI-Expanded)
- CCXXXIX. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CCXL. **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**
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PHYSICS LETTERS B, cilt.777, ss.39-63, 2018 (SCI-Expanded)
- CCXLI. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2018 (SCI-Expanded)
- CCXLII. **Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks**
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- CCXLIII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI-Expanded)
- CCXLIV. **Azimuthal anisotropy of charged particles with transverse momentum up to 100GeV/c in 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.
PHYSICS LETTERS B, cilt.776, ss.195-216, 2018 (SCI-Expanded)
- CCXLV. **Search for resonant and nonresonant Higgs boson pair production in the b(b)over-bar l nu l nu final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2018 (SCI-Expanded)
- CCXLVI. **Measurements of t(t)over-bar cross sections in association with b jets and inclusive jets and their ratio using dilepton final states 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., Ero J., Flechl M., et al.
PHYSICS LETTERS B, cilt.776, ss.355-378, 2018 (SCI-Expanded)
- CCXLVII. **Pseudorapidity distributions of charged hadrons in proton-lead collisions at root s(NN)=5.02 and 8.16 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2018 (SCI-Expanded)
- CCXLVIII. **Constraints on anomalous Higgs boson couplings using production and decay information in the**

four-lepton final state

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

PHYSICS LETTERS B, cilt.775, ss.1-24, 2017 (SCI-Expanded)

CCXLIX. Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at root s=13 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.12, 2017 (SCI-Expanded)

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

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

PHYSICAL REVIEW D, cilt.96, sa.11, 2017 (SCI-Expanded)

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

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

PHYSICS LETTERS B, cilt.775, ss.315-337, 2017 (SCI-Expanded)

CCLII. Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS

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

PHYSICAL REVIEW C, cilt.96, sa.6, 2017 (SCI-Expanded)

CCLIII. Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root s=13 TeV

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

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

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

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

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

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

PHYSICAL REVIEW LETTERS, cilt.119, sa.22, 2017 (SCI-Expanded)

CCLVI. Observation of Top Quark Production in Proton-Nucleus Collisions

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

PHYSICAL REVIEW LETTERS, cilt.119, sa.24, 2017 (SCI-Expanded)

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

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EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.11, 2017 (SCI-Expanded)

CCLVIII. Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at root s=13 TeV

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

- M., Eroe J., et al.
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- CCLIX. **Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Eroe J., Flechl M., et al.
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- CCLX. **Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXI. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICS LETTERS B, cilt.774, ss.279-307, 2017 (SCI-Expanded)
- CCLXII. **Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXIII. **Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at root s=13 TeV**
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- CCLXIV. **Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at root s=8 and 13 TeV**
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- CCLXV. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
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- CCLXVI. **Design and performance of a hybrid fast and thermal neutron detector**
Singh M. K., Sonay A., DENÍZ M., Agartioglu M., Asryan G., Kumar G. K., Li H. B., Li J., Lin F. K., Lin S. T., et al.
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- CCLXVII. **Measurements of the pp -> W gamma gamma and pp -> Z gamma gamma cross sections and limits on anomalous quartic gauge couplings at root s=8 TeV**
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- CCLXVIII. **Search for leptophobic Z ' bosons decaying into four-lepton final states 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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- CCLXIX. **Measurement of the B-+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root**

$\sqrt{s(NN)}=5.02$ TeV

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CCLXX. **Measurement of the semileptonic $t(\bar{t})$ plus gamma production cross section in pp collisions at root s=8 TeV**

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CCLXXI. **Search for Higgs boson pair production in the $b\bar{b}$ tau state in proton-proton collisions at root(s)=8 TeV**

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CCLXXII. **Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at root s=13 TeV**

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CCLXXIII. **Measurements of jet charge with dijet events in pp collisions at root s=8 TeV**

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CCLXXIV. **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**

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CCLXXV. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13 TeV**

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

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CCLXXVI. **Search for direct production of super symmetric partners of the top quark in the all-jets final state in proton-proton collisions at root s=13 TeV**

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

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

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

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CCLXXVIII. **Search for new physics in the monophoton final state in proton-proton collisions at root s=13 TeV**

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CCLXXIX. **Search for associated production of dark matter with a Higgs boson decaying to $b(\bar{b})$ or $\gamma\gamma$ at root s=13 TeV**

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- JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2017 (SCI-Expanded)
- CCLXXX. **Search for top squark pair production in pp collisions at root s=13 TeV using single lepton events**
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- CCLXXXI. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
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- CCLXXXII. **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.
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- :CLXXXIII. **Cross section measurement of t-channel single top quark production in pp collisions at root s=13 TeV**
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- :CLXXXIV. **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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PHYSICS LETTERS B, cilt.772, ss.363-387, 2017 (SCI-Expanded)
- CCLXXXV. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**
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- :CLXXXVI. **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, cilt.772, ss.489-511, 2017 (SCI-Expanded)
- CLXXXVII. **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**
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- :LXXXVIII. **Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at root s=13 TeV**
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PHYSICAL REVIEW LETTERS, cilt.119, sa.11, 2017 (SCI-Expanded)
- :CLXXXIX. **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., Eroo J., et al.
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- CCXC. **Measurement of the t(t)over-bar production cross section using events with one lepton and at least one jet 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., Eroe J., Flechl M., et al.
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- CCXCI. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root $s=13\text{TeV}$**
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- CCXCII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark at root $s=13\text{TeV}$**
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- CCXCIII. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root $s=13\text{TeV}$**
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 EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.9, 2017 (SCI-Expanded)
- CCXCIV. **Search for standard model production of four top quarks in proton-proton collisions at root $s=13\text{TeV}$**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
 PHYSICS LETTERS B, cilt.772, ss.336-358, 2017 (SCI-Expanded)
- CCXCV. **Constraints on nonstandard intermediate boson exchange models from neutrino-electron scattering**
 Sevdá B., Sen A., DEMİRÇİ M., DENİZ M., Agartioğlu M., Ajjáq A., KERMAN S., Singh L., Sonay A., Wong H. T., et al.
 PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)
- CCXCVI. **Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13TeV**
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- CCXCVII. **Measurement of the top quark mass in the dileptonic $t(\bar{t})$ over-bar decay channel using the mass observables M_{bl} , M_{T2} , and M_{blv} in pp collisions at root $=8\text{TeV}$**
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- CCXCVIII. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root $s(\text{NN})=5.02\text{TeV}$**
 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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- CCXCIX. **Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at root $s=13\text{TeV}$**
 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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- CCC. **Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state**
 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.771, ss.80-105, 2017 (SCI-Expanded)
- CCCI. **Search for supersymmetry in multijet events with missing transverse momentum 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.

PHYSICAL REVIEW D, cilt.96, sa.3, 2017 (SCI-Expanded)

- CCCII. **Measurement of the differential inclusive B+ hadron cross sections in pp collisions at root s=13TeV**
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PHYSICS LETTERS B, cilt.771, ss.435-456, 2017 (SCI-Expanded)
- CCCIII. **Search for top quark partners with charge 5/3 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.
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- CCCIV. **Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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.770, ss.357-379, 2017 (SCI-Expanded)
- CCCIV. **Measurement of the jet mass in highly boosted t(t)over-bar events from pp collisions at root 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)
- CCCVI. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.770, ss.50-71, 2017 (SCI-Expanded)
- CCCVII. **Search for supersymmetry in the all-hadronic final state using top quark tagging 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.
PHYSICAL REVIEW D, cilt.96, sa.1, 2017 (SCI-Expanded)
- CCCVIII. **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson 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.
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- CCCIX. **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**
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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- CCCX. **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**
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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- CCCXI. **Search for new physics with dijet angular distributions 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.7, 2017 (SCI-Expanded)
- CCCXII. **Measurement of inclusive jet cross sections in pp and PbPb 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., Eroe J., et al.
PHYSICAL REVIEW C, cilt.96, sa.1, 2017 (SCI-Expanded)
- CCCXIII. **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**
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.7, 2017 (SCI-Expanded)
- CCCXIV. **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**
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.770, ss.380-402, 2017 (SCI-Expanded)
- CCCXV. **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=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.
PHYSICAL REVIEW C, cilt.96, sa.1, 2017 (SCI-Expanded)
- CCCXVI. **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**
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)
- CCCXVII. **Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.770, ss.278-301, 2017 (SCI-Expanded)
- CCCXVIII. **Search for supersymmetry in events with photons and missing transverse energy 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, cilt.769, ss.391-412, 2017 (SCI-Expanded)
- CCCXIX. **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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2017 (SCI-Expanded)
- CCCXX. **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.
PHYSICS LETTERS B, cilt.769, ss.520-542, 2017 (SCI-Expanded)
- CCCXXI. **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.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)

- CCCXXII. **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., Eroee J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)
- CCCXXIII. **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., Eroee J., et al.
PHYSICS LETTERS B, cilt.768, ss.137-162, 2017 (SCI-Expanded)
- CCCXXIV. **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., Eroee J., et al.
PHYSICS LETTERS B, cilt.768, ss.103-129, 2017 (SCI-Expanded)
- CCCXXV. **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**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., Flechl M., et al.
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- CCCXXVI. **Searches for pair production of third-generation squarks in root s=13 TeV pp collisions**
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- CCCXXVII. **Observation of gamma(1S) pair production in proton-proton collisions at root s=8 TeV**
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- CCCXXVIII. **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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- CCCXXIX. **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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- CCCXXX. **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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- CCCXXXI. **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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- CCCXXXII. **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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- :CCXXXIII. **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**
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- :CCXXXIV. **Mechanical stability of the CMS strip tracker measured with a laser alignment system**
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- CCCXXXV. **Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CCXXXVII. **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**
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- :CXXXVIII. **Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CCCXL. **Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**
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- CCCXLII. **Measurement of the $t(\bar{t})$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV**
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- CCCXLIII. **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.

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CCCXLIV. 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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CCCXLV. Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s}=8$ TeV

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

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

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CCCXLVII. 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

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:CCXLVIII. 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.

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CCCXLIX. Constraints on scalar-pseudoscalar and tensorial nonstandard interactions and tensorial unparticle couplings from neutrino-electron scattering

DENÍZ M., Sevda B., KERMAN S., Ajjaq A., Singh L., Wong H. T., ZEYREK M. T.

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

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CCCLI. Evidence for collectivity in pp collisions at the LHC

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

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

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CCCLIV. 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., Ero J., et al.

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CCCLV. 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.

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

CCCLVI. 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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CCCLVII. 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., Ero J., et al.

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CCCLVIII. 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

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CCCLIX. Inclusive search for supersymmetry using razor variables 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.

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CCCLX. 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., Ero J., et al.

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CCCLXI. Search for supersymmetry in events with one lepton and multiple 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., Ero J., et al.

PHYSICAL REVIEW D, cilt.95, sa.1, 2017 (SCI-Expanded)

CCCLXII. Search for R-parity violating supersymmetry with displaced vertices 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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CCCLXIII. Observation of the decay B+ -> psi(2S)phi(1020)K+ in pp collisions at root s=8 TeV

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CCCLXIV. Measurements of the t(t)over-bar production cross section in lepton plus jets final states in pp collisions at 8 and ratio of 8 to 7 cross sections

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- :CLXXVIII. **Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CCCLXXX. **Phenomenological MSSM interpretation of CMS searches 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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- :CCLXXXI. **Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s}=13$ 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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- CCLXXXII. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at $\sqrt{s}=7$ TeV**
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- :CLXXXIII. **Measurement of the integrated and differential $t(\bar{t})$ production cross sections for high- $p(T)$ top quarks in pp collisions at $\sqrt{s}=8$ TeV**
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- :CLXXXIV. **Search for s channel single top quark production 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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- CCLXXXV. **Measurements of $t(\bar{t})$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV**
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- :CLXXXVI. **Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV**
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- CLXXXVII. **Search for R-parity violating decays of a top squark in proton-proton collisions at root s=8TeV**
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- :LXXXVIII. **Measurement of dijet azimuthal decorrelation in pp collisions at root s=8 TeV**
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- CLXXXIX. **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**
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- CCCXC. **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**
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- CCCXCI. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
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- CCCXCII. **Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at root s=7 and 8 TeV**
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- CCCXCIII. **Measurement of the differential cross section and charge asymmetry for inclusive pp -> W-+/- + X production at root s=8 TeV**
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- CCCXCIV. **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.
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- CCCXCV. **Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at root s=8 TeV**
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- CD. **Combined search for anomalous pseudoscalar HW couplings in VH(H -> b(b)over-bar) production and H -> VV decay**
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- CDII. **Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at root s=8TeV**
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- CDIII. **Search for new physics in same-sign dilepton events in proton-proton collisions at root s=13 TeV**
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- CDIV. **Measurement of the t(t)over-bar production cross section in the e mu channel in proton-proton collisions at root s=7 and 8 TeV**
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- CDVI. **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**
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- CDVII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**
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- CDXI. **Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV**
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- CDXIV. **Search for Narrow Resonances in Dijet Final States at root s=8 TeV with the Novel CMS Technique of Data Scouting**
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- CDXV. **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**
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- CDXVI. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root s=8 TeV**
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- CDXIX. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at root s=8 TeV**
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- CDXX. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=8 TeV**
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- CDXXII. **Search for pair-produced vectorlike B quarks in proton-proton collisions at root s=8 TeV**
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- CDXXIII. **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**
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- CDXXIV. **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**
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- CDXXVII. **Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables**
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- CDXXVIII. **Measurement of top quark polarisation in t-channel single top quark production**
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- CDXXIX. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at root s=13 TeV**
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- CDXXX. **Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at root s=7 and 8 TeV**
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- CDXXXIII. **Search for new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
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- CDXXXIV. **Search for heavy Majorana neutrinos in e(+/-)e(+/-)+ jets and e(+/-) mu(+/-) +jetsevents in proton-proton collisions at root s=8 TeV**
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- CDXXXV. **Search for anomalous single top quark production in association with a photon in pp collisions at root s=8 TeV**
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- CDXXXVI. **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 -> tau tau**
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- CDXXXVII. **Measurement of the top quark mass using proton-proton data at root(s)=7**
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- DXXXVIII. **Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at s =8 TeV**
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- CDXXXIX. **Measurements of t(t)over-bar spin correlations and top quark polarization using dilepton final states in pp collisions at root s=8 TeV**
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- CDXL. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
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- CDXLI. **Search for excited leptons in proton-proton collisions at root s=8 TeV**

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- CDXLII. **Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CDXLIII. **Measurement of the $t(\bar{t})$ over-bar production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV**
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- CDXLIV. **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 $\sqrt{s}=8$ TeV**
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- CDXLV. **Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow \ell\ell$ with low dilepton mass in pp collisions at $\sqrt{s}=8$ TeV**
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- CDXLVI. **Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CDXLVII. **Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s}=8$ TeV using a template method**
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- CDXLVIII. **Search for $W' \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CDXLIX. **Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CDL. **Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CDLI. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
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- CDLII. **Search for single production of scalar leptoquarks 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., Eroo J., et al

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- CDLIII. **Search for pair production of first and second generation leptoquarks in proton-proton collisions at root s=8 TeV**
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- CDLIV. **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., Eroo J., et al.
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- CDLV. **Search for resonant t(t)over-bar production in proton-proton collisions at root s=8 TeV**
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PHYSICAL REVIEW D, cilt.93, sa.1, 2016 (SCI-Expanded)
- CDLVI. **Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays**
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- CDLVII. **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., Eroo J., et al.
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- CDLVIII. **A search for pair production of new light bosons decaying into muons**
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- CDLIX. **Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- CDLX. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root s=8TeV**
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- CDLXI. **Observation of top quark pairs produced in association with a vector boson 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.
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- CDLXII. **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., Eroo J., et al.
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- CDLXIII. **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=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,

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- CDLXIV. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**
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- CDLXV. **Search for a light charged Higgs boson decaying to c(s)over-bar 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.,
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- CDLXVI. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root s=8 TeV**
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- CDLXVII. **Measurement of the differential cross section for top quark pair production in pp collisions at root s=8TeV**
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- CDLXVIII. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**
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- CDLXIX. **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**
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- CDLXX. **Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root s=8TeV**
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- CDLXXI. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root s=8 TeV**
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- CDLXXII. **Study of W boson production in pPb collisions at root(NN)-N-S=5.02 TeV**
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- CDLXXV. **Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential cross sections in pp collisions at root s=7 TeV**
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- CDLXXVI. **Search for supersymmetry with photons in pp collisions at root s=8 TeV**
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- CDLXXVII. **Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8TeV**
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- CDLXXIX. **Search for lepton-flavour-violating decays of the Higgs boson**
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- CDLXXXI. **Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV**
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- CDLXXXII. **Comparison of the Z/gamma* plus jets to gamma plus jets cross sections in pp collisions at root s=8 TeV**
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- DLXXXIII. **Search for heavy Majorana neutrinos in mu(+/-)mu(+/-) + jets events in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- DLXXXIV. **Search for narrow high-mass resonances in proton-proton collisions at root s=8 TeV decaying to a Z and a Higgs boson**
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- CDLXXXV. **Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at root s=2.76 TeV**
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- Dragicevic M., Eroe J., et al.
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- DLXXXVI. **Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at root $s=8\text{TeV}$**
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- DLXXXVII. **Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $l(+)l(-)b(\bar{b})$ final states**
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- DLXXXVIII. **Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions**
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- DLXXXIX. **Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at root $s=8\text{TeV}$**
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- CDXC. **Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b(\bar{b})$**
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- CDXCI. **Search for third-generation scalar leptoquarks in the t tau channel in proton-proton collisions at root $s=8\text{TeV}$**
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- CDXCII. **Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV**
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- CDXCIII. **Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at root $s=8\text{TeV}$**
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- CDXCIV. **Distributions of topological observables in inclusive three- and four-jet events in pp collisions at root $s=7\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CDXCV. **Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at root $s=8\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.7, 2015 (SCI-Expanded)

- CDXCVI. **Measurement of diffractive dissociation cross sections in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, cilt.92, sa.1, 2015 (SCI-Expanded)
- CDXCVII. **Searches for third-generation squark production in fully hadronic final states 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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- CDXCVIII. **Observation of the rare B-s(0)->mu(+)-mu(-) decay from the combined analysis of CMS and LHCb data**
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- CDXCIX. **Search for the production of dark matter in association with top-quark pairs in the single-lepton final state 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., Ghele V. M., et al.
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- D. **Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at root s=8 TeV**
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PHYSICS LETTERS B, cilt.746, ss.79-99, 2015 (SCI-Expanded)
- DI. **Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghele V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2015 (SCI-Expanded)
- DII. **Measurement of the cross section ratio $\sigma(t\bar{t})/\sigma(t\bar{t})$ in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.746, ss.132-153, 2015 (SCI-Expanded)
- DIII. **Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at root s=7TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghele V. M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.6, 2015 (SCI-Expanded)
- DIV. **Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghele V. M., et al.
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- DV. **Performance of electron reconstruction and selection with the CMS detector 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., Ghele V. M., et al.
JOURNAL OF INSTRUMENTATION, cilt.10, 2015 (SCI-Expanded)
- DVI. **Evidence for Collective Multiparticle Correlations in p-Pb Collisions**

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

PHYSICAL REVIEW LETTERS, cilt.115, sa.1, 2015 (SCI-Expanded)

DVII. Search for a standard model-like Higgs boson in the $\mu(+)\mu(-)$ and $e(+)\mu(-)$ decay channels at the LHC

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

PHYSICS LETTERS B, cilt.744, ss.184-207, 2015 (SCI-Expanded)

DVIII. Measurement of J/ψ and $\psi(2S)$ Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV

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

PHYSICAL REVIEW LETTERS, cilt.114, sa.19, 2015 (SCI-Expanded)

DIX. Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2015 (SCI-Expanded)

DX. Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV

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

PHYSICAL REVIEW D, cilt.91, sa.9, 2015 (SCI-Expanded)

DXI. Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV

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

PHYSICS LETTERS B, cilt.745, ss.5-28, 2015 (SCI-Expanded)

DXII. Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV

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

PHYSICAL REVIEW D, cilt.91, sa.9, 2015 (SCI-Expanded)

DXIII. Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, 2015 (SCI-Expanded)

DXIV. Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, 2015 (SCI-Expanded)

DXV. Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments

Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O. S., Abramowicz H., Abreu H., Abreu R., et al.

PHYSICAL REVIEW LETTERS, cilt.114, sa.19, 2015 (SCI-Expanded)

DXVI. Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range

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

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, 2015 (SCI-Expanded)

- DXVII. Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, 2015 (SCI-Expanded)
- DXVIII. Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2015 (SCI-Expanded)
- DXIX. Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, cilt.743, ss.503-525, 2015 (SCI-Expanded)
- DXX. Measurement of the Z gamma production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2015 (SCI-Expanded)
- DXXI. Measurements of differential and double-differential Drell-Yan cross sections 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.4, 2015 (SCI-Expanded)
- DXXII. Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.4, 2015 (SCI-Expanded)
- DXXIII. Measurement of the production cross section ratio $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$ in pp collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.743, ss.383-402, 2015 (SCI-Expanded)
- DXXIV. Search for decays of stopped long-lived particles produced in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.4, 2015 (SCI-Expanded)
- DXXV. Search for Monotop Signatures in Proton-Proton Collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.114, sa.10, 2015 (SCI-Expanded)
- DXXVI. Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at root s=8TeV**
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.91, sa.5, 2015 (SCI-Expanded)
- DXXVII. Study of Z production in PbPb and pp collisions at root s(NN)=2.76 TeV in the dimuon and dielectron decay channels**

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2015 (SCI-Expanded)

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

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

PHYSICS LETTERS B, cilt.742, ss.200-224, 2015 (SCI-Expanded)

DXXIX. Search for supersymmetry using razor variables in events with b-tagged jets 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.91, sa.5, 2015 (SCI-Expanded)

DXXX. Measurements of jet multiplicity and differential production cross sections of Z plus jets events in proton-proton collisions at root s=7 TeV

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

PHYSICAL REVIEW D, cilt.91, sa.5, 2015 (SCI-Expanded)

DXXXI. Search for resonances and quantum black holes using dijet mass spectra 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.

PHYSICAL REVIEW D, cilt.91, sa.5, 2015 (SCI-Expanded)

DXXXII. Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets

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 LETTERS, cilt.114, sa.5, 2015 (SCI-Expanded)

DXXXIII. Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV

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

JOURNAL OF INSTRUMENTATION, cilt.10, 2015 (SCI-Expanded)

DXXXIV. Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at root s=8 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.2, 2015 (SCI-Expanded)

DXXXV. Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at root s=7 TeV

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

PHYSICS LETTERS B, cilt.741, ss.12-37, 2015 (SCI-Expanded)

DXXXVI. Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters

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 LETTERS, cilt.114, sa.6, 2015 (SCI-Expanded)

DXXXVII. Measurement of the ratio of the production cross sections times branching fractions of $B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-)$ and $B\text{-}+/- \rightarrow J/\psi K\text{-}+/-$ and $B(B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-)\pi(+/-)\pi(-/+)) / B(B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-))$ in pp collisions at root s=7 TeV

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

- Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2015 (SCI-Expanded)
- DXXXVIII. **Measurement of the W boson helicity in events with a single reconstructed top quark in p p collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth M., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2015 (SCI-Expanded)
- DXXXIX. **Measurement of the pp -> ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.740, ss.250-272, 2015 (SCI-Expanded)
- DXL. **Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, cilt.91, sa.1, 2015 (SCI-Expanded)
- DXLI. **Search for disappearing tracks in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2015 (SCI-Expanded)
- DXLII. **Search for new resonances decaying via WZ to leptons in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.740, ss.83-104, 2015 (SCI-Expanded)
- DXLIII. **Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at v root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.739, ss.229-249, 2014 (SCI-Expanded)
- DXLIV. **Searches for heavy Higgs bosons in two-Higgs-doublet models and for t -> ch decay using multilepton and diphoton final states in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, cilt.90, sa.11, 2014 (SCI-Expanded)
- DXLV. **Measurement of the t(t)over-bar production cross section in pp collisions at root s=8 TeV in dilepton final states containing one tau lepton**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.739, ss.23-43, 2014 (SCI-Expanded)
- DXLVI. **Measurement of Prompt psi(2S) to J/psi. Yield Ratios in Pb-Pb and p-p Collisions at root sNN=2.76 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.113, sa.26, 2014 (SCI-Expanded)
- DXLVII. **Identification techniques for highly boosted W bosons that decay into hadrons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2014 (SCI-Expanded)
- DXLVIII. **Search for supersymmetry with razor variables in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C.,

- Friedl M., et al.
PHYSICAL REVIEW D, cilt.90, sa.11, 2014 (SCI-Expanded)
- DXLIX. Search for excited quarks in the gamma plus jet final state in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.738, ss.274-293, 2014 (SCI-Expanded)
- DL. Search for standard model production of four top quarks in the lepton plus jets channel in pp collisions at root S=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Uhwirth R. F., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.11, 2014 (SCI-Expanded)
- DLI. Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.11, 2014 (SCI-Expanded)
- DLII. Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.11, 2014 (SCI-Expanded)
- DLIII. Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, cilt.90, sa.9, 2014 (SCI-Expanded)
- DLIV. Description and performance of track and primary-vertex reconstruction with the CMS tracker**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLV. Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2014 (SCI-Expanded)
- DLVI. Measurement of the ratio of inclusive jet cross sections using the anti-k(T) algorithm with radius parameters R=0.5 and 0.7 in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, cilt.90, sa.7, 2014 (SCI-Expanded)
- DLVII. Study of hadronic event-shape variables in multijet final states in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2014 (SCI-Expanded)
- DLVIII. Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at root s=8 TeV by the CMS and TOTEM experiments**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.10, 2014 (SCI-Expanded)
- DLIX. Observation of the diphoton decay of the Higgs boson and measurement of its properties**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M.,

- Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.10, 2014 (SCI-Expanded)
- DLX. **Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.9, 2014 (SCI-Expanded)
- DLXI. **Measurement of prompt J/psi pair production in pp collisions at root s = 7 Tev**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2014 (SCI-Expanded)
- DLXII. **Search for the associated production of the Higgs boson with a top-quark pair**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2014 (SCI-Expanded)
- DLXIII. **Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.736, ss.371-397, 2014 (SCI-Expanded)
- DLXIV. **Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.113, sa.13, 2014 (SCI-Expanded)
- DLXV. **Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.9, 2014 (SCI-Expanded)
- DLXVI. **Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.736, ss.64-85, 2014 (SCI-Expanded)
- DLXVII. **Measurement of the ratio B(t -> Wb)/B(t -> Wq) in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.736, ss.33-57, 2014 (SCI-Expanded)
- DLXVIII. **Measurement of jet fragmentation in PbPb and pp collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW C, cilt.90, sa.2, 2014 (SCI-Expanded)
- DLXIX. **Search for jet extinction in the inclusive jet-p(T) spectrum from proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, cilt.90, sa.3, 2014 (SCI-Expanded)
- DLXX. **Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.8, 2014 (SCI-Expanded)
- DLXXI. **Measurement of the muon charge asymmetry in inclusive pp -> W plus X production at root s=7 TeV**

and an improved determination of light parton distribution functions

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

PHYSICAL REVIEW D, cilt.90, sa.3, 2014 (SCI-Expanded)

DLXXII. Measurement of WZ and ZZ production in pp collisions at in final states with b-tagged jets

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

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.8, 2014 (SCI-Expanded)

DLXXIII. Measurement of jet multiplicity distributions in $t(\bar{t})$ production in pp collisions at root $s=7\text{TeV}$

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

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.8, 2014 (SCI-Expanded)

DLXXIV. Search for anomalous production of events with three or more leptons in pp collisions at root $s=8\text{TeV}$

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

PHYSICAL REVIEW D, cilt.90, sa.3, 2014 (SCI-Expanded)

DLXXV. Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at root $s=8\text{TeV}$

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

PHYSICAL REVIEW D, cilt.90, sa.3, 2014 (SCI-Expanded)

DLXXVI. Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at root $s=8\text{TeV}$

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2014 (SCI-Expanded)

DLXXVII. Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at root $s=8\text{TeV}$

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.8, 2014 (SCI-Expanded)

DLXXVIII. Measurement of the production cross section for a W boson and two b jets in pp collisions at root $s=7\text{TeV}$

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, cilt.735, ss.204-225, 2014 (SCI-Expanded)

DLXXIX. Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at root $s(\text{NN})=5.02\text{TeV}$

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

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.7, 2014 (SCI-Expanded)

DLXXX. Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at root $s=7\text{TeV}$

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2014 (SCI-Expanded)

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

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

- Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.6, 2014 (SCI-Expanded)
- DLXXXII. **Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2014 (SCI-Expanded)
- DLXXXIII. **Search for pair production of excited top quarks in the lepton plus jets final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2014 (SCI-Expanded)
- DLXXXIV. **Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in events with a single lepton, large jet multiplicity, and multiple b jets**
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.733, ss.328-353, 2014 (SCI-Expanded)
- DLXXXV. **Probing color coherence effects in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.6, 2014 (SCI-Expanded)
- DLXXXVI. **Observation of a peaking structure in the J/ψ ϕ mass spectrum from $B^{+/-} \rightarrow J/\psi \phi K^{+/-}$ decays**
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.734, ss.261-281, 2014 (SCI-Expanded)
- DLXXXVII. **Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2014 (SCI-Expanded)
- DLXXXVIII. **Alignment of the CMS tracker with LHC and cosmic ray data**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, cilt.9, 2014 (SCI-Expanded)
- DLXXXIX. **Measurement of the triple-differential cross section for photon plus jets production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2014 (SCI-Expanded)
- DXC. **Observation of the Associated Production of a Single Top Quark - and a W Boson in pp Collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.112, sa.23, 2014 (SCI-Expanded)
- DXCI. **Measurement of the W gamma and Z gamma inclusive cross sections in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous triple gauge boson couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, cilt.89, sa.9, 2014 (SCI-Expanded)
- DXCII. **Evidence for the 125 GeV Higgs boson decaying to a pair of tau leptons**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C.,

- Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2014 (SCI-Expanded)
- DXCIII. Measurement of the properties of a Higgs boson in the four-lepton final state**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, cilt.89, sa.9, 2014 (SCI-Expanded)
- DXCIV. Measurement of Inclusive W and Z Boson Production Cross Sections in pp Collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.112, sa.19, 2014 (SCI-Expanded)
- DXCV. Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow Zq$ in pp Collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.112, sa.17, 2014 (SCI-Expanded)
- DXCVI. Measurement of four-jet production in proton-proton collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, cilt.89, sa.9, 2014 (SCI-Expanded)
- DXCVII. Measurements of $t(t)$ over-bar Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.112, sa.18, 2014 (SCI-Expanded)
- DXCVIII. Search for $W' \rightarrow tb$ decays in the lepton plus jets final state in pp collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2014 (SCI-Expanded)
- DXCIX. Measurement of the top-quark mass in all-jets $t(t)$ over-bar events in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.4, 2014 (SCI-Expanded)
- DC. Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.112, sa.16, 2014 (SCI-Expanded)
- DCI. Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at root s(NN)=2.76 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW C, cilt.89, sa.4, 2014 (SCI-Expanded)
- DCII. Search for Top-Quark Partners with Charge 5/3 in the Same-Sign Dilepton Final State**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.112, sa.17, 2014 (SCI-Expanded)
- DCIII. Search for baryon number violation in top-quark decays**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICS LETTERS B, cilt.731, ss.173-196, 2014 (SCI-Expanded)
- DCIV. Measurements of the $t(t)$ Overbar charge asymmetry using the dilepton decay channel in pp collisions at root s=7 TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCV. **Event activity dependence of (nS) production in=5.02 TeV pPb and=2.76 TeV pp collisions**
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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- DCVI. **Modification of jet shapes in PbPb collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.730, ss.243-263, 2014 (SCI-Expanded)
- DCVII. **Searches for light- and heavy-flavour three-jet resonances in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.730, ss.193-214, 2014 (SCI-Expanded)
- DCVIII. **Study of double parton scattering using W+2-jet events in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.3, 2014 (SCI-Expanded)
- DCIX. **Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.729, ss.149-171, 2014 (SCI-Expanded)
- DCX. **Measurement of associated W plus charm production in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCXI. **Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCXII. **Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCXIII. **Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**
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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- DCXIV. **Determination of the top-quark pole mass and strong coupling constant from the t(t)over-bar production cross section in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.728, ss.496-517, 2014 (SCI-Expanded)
- DCXV. **Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, cilt.89, sa.1, 2014 (SCI-Expanded)

- DCXVI. **Search for new physics in events with same-sign dileptons and jets in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.1, 2014 (SCI-Expanded)
- DCXVII. **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2013 (SCI-Expanded)
- DCXVIII. **Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCXIX. **Search for top-squark pair production in the single-lepton final state in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.12, 2013 (SCI-Expanded)
- DCXX. **Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, cilt.88, sa.11, 2013 (SCI-Expanded)
- DCXXI. **Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.727, ss.381-402, 2013 (SCI-Expanded)
- DCXXII. **Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2013 (SCI-Expanded)
- DCXXIII. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.111, sa.21, 2013 (SCI-Expanded)
- DCXXIV. **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., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.727, ss.101-125, 2013 (SCI-Expanded)
- DCXXV. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.727, ss.77-100, 2013 (SCI-Expanded)
- DCXXVI. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.

- PHYSICS LETTERS B, cilt.726, ss.564-586, 2013 (SCI-Expanded)
- DCXXVII. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.111, sa.22, 2013 (SCI-Expanded)
- DCXXVIII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF INSTRUMENTATION, cilt.8, 2013 (SCI-Expanded)
- DCXXIX. **Search for a Higgs boson decaying into a Z and a photon in pp collisions at root s=7 and 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.726, ss.587-609, 2013 (SCI-Expanded)
- DCXXX. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.727, ss.57-76, 2013 (SCI-Expanded)
- DCXXXI. **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**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2013 (SCI-Expanded)
- DCXXXII. **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**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2013 (SCI-Expanded)
- DCXXXIII. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.725, ss.243-270, 2013 (SCI-Expanded)
- DCXXXIV. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.10, 2013 (SCI-Expanded)
- DCXXXV. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCXXXVI. **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**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCXXXVII. **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

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

EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.9, 2013 (SCI-Expanded)

DCXXXVIII. Interpretation of searches for supersymmetry with simplified models

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

PHYSICAL REVIEW D, cilt.88, sa.5, 2013 (SCI-Expanded)

DCXXXIX. Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root $s=7$ TeV

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

PHYSICAL REVIEW D, cilt.88, sa.5, 2013 (SCI-Expanded)

DCXL. Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at root $s=7$ TeV

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

JOURNAL OF INSTRUMENTATION, cilt.8, 2013 (SCI-Expanded)

DCXLI. Measurement of the $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ Branching Fraction and Search for $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ with the CMS Experiment

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

PHYSICAL REVIEW LETTERS, cilt.111, sa.10, 2013 (SCI-Expanded)

DCXLII. Searches for Higgs bosons in pp collisions at root $s=7$ and 8 TeV in the context of four-generation and fermiophobic models

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

PHYSICS LETTERS B, cilt.725, ss.36-59, 2013 (SCI-Expanded)

DCXLIII. Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root $s=7$ TeV

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

PHYSICAL REVIEW LETTERS, cilt.111, sa.8, 2013 (SCI-Expanded)

DCXLIV. Searches for long-lived charged particles in pp collisions at root $s=7$ and 8 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2013 (SCI-Expanded)

DCXLV. Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions

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.724, ss.213-240, 2013 (SCI-Expanded)

DCXLVI. Search for microscopic black holes in pp collisions at root $s=8$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2013 (SCI-Expanded)

DCXLVII. 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

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

EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.7, 2013 (SCI-Expanded)

DCXLVIII. Measurement of the $\Lambda_b(0)$ lifetime 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.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2013 (SCI-Expanded)
- DCXLIX. **Measurement of masses in the $t(\bar{t})$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.7, 2013 (SCI-Expanded)
- DCL. **Study of exclusive two-photon production of $W+W^-$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.7, 2013 (SCI-Expanded)
- DCLI. **Limits on Spin-Independent Couplings of WIMP Dark Matter with a p-Type Point-Contact Germanium Detector**
Li H. B., Liao H. Y., Lin S. T., Liu S. K., Singh L., Singh M. K., Soma A. K., Wong H. T., Wu Y. C., Zhao W., et al.
PHYSICAL REVIEW LETTERS, cilt.110, sa.26, 2013 (SCI-Expanded)
- DCLII. **Search for heavy resonances in the W/Z -tagged dijet mass spectrum in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.723, ss.280-301, 2013 (SCI-Expanded)
- DCLIII. **Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.6, 2013 (SCI-Expanded)
- DCLIV. **Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the CMS detector**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, cilt.87, sa.11, 2013 (SCI-Expanded)
- DCLV. **Search for narrow resonances using the dijet mass spectrum 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.
PHYSICAL REVIEW D, cilt.87, sa.11, 2013 (SCI-Expanded)
- DCLVI. **Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.6, 2013 (SCI-Expanded)
- DCLVII. **Measurement of the inelastic proton-proton cross section 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.
PHYSICS LETTERS B, cilt.722, ss.5-27, 2013 (SCI-Expanded)
- DCLVIII. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.5, 2013 (SCI-Expanded)
- DCLIX. **Search for supersymmetry in pp collisions at $\sqrt{s}=7$ 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.

- EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.5, 2013 (SCI-Expanded)
- DCLX. **Search for fractionally charged particles 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 D, cilt.87, sa.9, 2013 (SCI-Expanded)
- DCLXI. **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, cilt.722, ss.207-232, 2013 (SCI-Expanded)
- DCLXII. **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.
PHYSICS LETTERS B, cilt.722, ss.273-294, 2013 (SCI-Expanded)
- DCLXIII. **Event shapes and azimuthal correlations in Z 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.
PHYSICS LETTERS B, cilt.722, ss.238-261, 2013 (SCI-Expanded)
- DCLXIV. **Measurement of the t(t)over-bar production cross section in the all-jet final state 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, sa.5, 2013 (SCI-Expanded)
- DCLXV. **Studies of jet mass in dijet and W/Z plus jet events**
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, sa.5, 2013 (SCI-Expanded)
- DCLXVI. **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.
PHYSICS LETTERS B, cilt.722, ss.28-47, 2013 (SCI-Expanded)
- DCLXVII. **Measurement of the W+W- and ZZ production cross sections in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.721, ss.190-211, 2013 (SCI-Expanded)
- DCLXVIII. **Search for Z ' resonances decaying to t(t)over-bar in dilepton 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., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, cilt.87, sa.7, 2013 (SCI-Expanded)
- DCLXIX. **Measurement of the t(t)over-bar production cross section in the tau plus jets channel 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.4, 2013 (SCI-Expanded)
- DCLXX. **Identification of b-quark jets with the CMS experiment**
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 INSTRUMENTATION, cilt.8, 2013 (SCI-Expanded)

- DCLXXI. **Search for pair-produced dijet resonances in four-jet 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., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, cilt.110, sa.14, 2013 (SCI-Expanded)
- DCLXXII. **Measurement of the X(3872) production cross section via decays to J/psi pi(+)pi(-) in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- DCLXXIV. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
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- DCCIII. **Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root s=7 TeV**
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- DCCIV. **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**
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- DCCXI. **Combined search for the quarks of a sequential fourth generation**
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- DCCXIII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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- DCCXIV. **Search for three-jet resonances in pp collisions at root s=7 TeV**
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- DCCXV. **Measurement of the relative prompt production rate of chi(c2) and chi(c1) in pp collisions at root**

$s=7$ TeV

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DCCXVI. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root $s=7$ TeV**

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DCCXVII. **Measurement of the single-top-quark t-channel cross section in pp collisions at root $s=7$ TeV**

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DCCXVIII. **Observation of Z decays to four leptons with the CMS detector at the LHC**

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DCCXIX. **Search for Heavy Neutrinos and W-R Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at root $s=7$ TeV**

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

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DCCXXI. **Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at root $s=7$ TeV**

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DCCXXII. **Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at root $s=7$ TeV**

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DCCXXIII. **Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at root $s=7$ TeV**

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DCCXXIV. **Measurement of the $t(\bar{t})$ production cross section in the dilepton channel in pp collisions at root $s=7$ TeV**

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DCCXXV. **Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at root $s=7$ TeV**

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- DCCXXVI. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive $e^{+}e^{-}$ production in pp collisions at root $s=7$ TeV**
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- DCCXXVII. **A search for a doubly-charged Higgs boson in pp collisions at root $s=7$ TeV**
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- DCCXXVIII. **Observation of Sequential upilon Suppression in PbPb Collisions**
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- DCCXXIX. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at root $s(NN)=2.76$ TeV**
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- DCCXXX. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**
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- DCCXXXI. **Search for supersymmetry in hadronic final states using M-T2 in pp collisions at root $s=7$ TeV**
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- DCCXXXII. **Performance of CMS muon reconstruction in pp collision events at root $s=7$ TeV**
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- DCCXXXIII. **Tests of CMS hadron forward calorimeter upgrade readout box prototype**
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- DCCXXXIV. **Search for a W^{\pm} or Techni-rho Decaying into WZ in pp Collisions at root $s=7$ TeV**
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- DCCXXXV. **Measurement of jet fragmentation into charged particles in pp and PbPb collisions at root $s(NN)=2.76$ TeV**
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- DCCXXXVI. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at root $s=7$ TeV**
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- CCXXXVII. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root $s=0.9, 2.76,$ and 7 TeV**

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- CXXXVIII. **Measurement of the top-quark mass in $t(\bar{t})$ over-bar events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV**
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- DCCXXXIX. **Search for charge-asymmetric production of W^\pm bosons in $t(\bar{t})$ over-bar plus jet events from pp collisions at $\sqrt{s}=7$ 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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- DCCXL. **Search for heavy Majorana neutrinos in $\mu^{+/-}\mu^{+/-} + \text{jets}$ and $e^{+/-}e^{+/-} + \text{jets}$ 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., Eroev J., Fabjan C., et al.
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- DCCXLI. **Inclusive and differential measurements of the $t(\bar{t})$ over-bar charge asymmetry in proton-proton collisions $\sqrt{s}=7$ TeV**
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:CCXXVIII. **Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at root s=7 TeV**
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)CCCXXIX. **Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at root s(NN)=2.76 TeV**

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DCCCXXX. **Observation and studies of jet quenching in PbPb collisions at root s(NN)=2.76 TeV**

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)CCCXXXI. **Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at root s=7 TeV**

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CCCXXXII. **Search for same-sign top-quark pair production at root s=7 TeV and limits on flavour changing neutral currents in the top sector**

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:CCXXIV. **Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**

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CCCXXXV. **Measurement of W gamma and Z gamma production in pp collisions at root s=7 TeV**

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:CCXXVI. **Search for a heavy bottom-like quark in pp collisions at root s=7 TeV**

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CCXXVII. **Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=2.76 TeV**

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:CXXVIII. **Search for a W ' boson decaying to a muon and a neutrino in pp collisions at root s=7 TeV**

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- 0CCCLXIV. **Search for microscopic black hole signatures at the Large Hadron Collider**
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- 0CCCLXV. **Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV**
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- 0CCCLXVI. **Measurement of B(B)over-bar angular correlations based on secondary vertex reconstruction at root s=7 TeV**
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- 0CCCLXVII. **Inclusive b-hadron production cross section with muons in pp collisions at root s=7 TeV**
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ODTÜ, Prof.Dr.
Texas Tech University, Misafir Profesör
ODTÜ, Y. Doç. Dr.
ODTÜ, Öğretim Görevlisi (Dr.)
ODTÜ, Araştırma Görevlisi