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Eğitim Bilgileri

Doktora, The University of Iowa, Yüksek Enerji Fizigi, Amerika Birleşik Devletleri 1997 - 2000

Yüksek Lisans, The University of Iowa, Yüksek Enerji Fizigi, Amerika Birleşik Devletleri 1994 - 1997

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen-Edebiyat, Fizik Mühendisliği, Türkiye 1992 - 1993

Lisans, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1988 - 1992

Yabancı Diller

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Yaptığı Tezler

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Akademik Unvanlar / Görevler

Prof.Dr., Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2014 - Devam Ediyor

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- XXXI. **Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final**

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- XLVII. **Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- XLIX. **Search for a heavy resonance decaying into a top quark and a W boson in the lepton plus jets final state at root s=13 TeV**
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- LXI. **Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of τ Leptons in pp Collisions at $s = 13$ TeV**
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LXXVI. Measurement of prompt open-charm production cross sections in proton-proton collisions at root $s=13$ TeV

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- LXXXIX. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state**
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- XCV. **Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions**
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- XCV. **Measurement of the azimuthal anisotropy of Y(1S) and Y(2S) mesons in PbPb collisions at root s(NN)=5.02 TeV**
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- XCVIII. **Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- XCIX. **Search for lepton-flavor violating decays of the Higgs boson in the mu tau and e tau final states in proton-proton collisions at root s=13 TeV**
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- C. **Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at root s(NN)=5.02 TeV**
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- CI. **Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CII. **Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at root s=13 TeV**
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- CV. **Search for long-lived particles using displaced jets in proton-proton collisions at root $s=13$ TeV**
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- CVI. **Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at root $s=13$ TeV**
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- CVII. **MUSiC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CIX. **Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CXI. **Observation of a New Excited Beauty Strange Baryon Decaying to $\Xi^{(-)}(b)\pi^{(+)}\pi^{(-)}$**
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- CXII. **Study of Drell-Yan dimuon production in proton-lead collisions at root $s(NN)=8.16$ TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.5, 2021 (SCI-Expanded)
- CXIII. **Measurement of b jet shapes in proton-proton collisions at root $s=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
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- CXIV. **Measurement of the CP-violating phase $\phi(s)$ in the $B\text{-}s(0) \rightarrow J/\psi \phi(1020) \rightarrow \mu^{(+)}\mu^{-}K^{+}K^{-}$ channel in proton-proton collisions at root $s=13$ TeV**
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- CXV. **Measurements of the differential cross sections of the production of Z plus jets and gamma plus jets and of Z boson emission collinear with a jet in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M.,

- Fruhworth R., et al.
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- CXVI. **Measurement of prompt D-0 and D-0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at root S-NN=5.02 TeV**
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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- CXVII. **Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC**
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JOURNAL OF INSTRUMENTATION, cilt.16, sa.5, 2021 (SCI-Expanded)
- CXVIII. **Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu(\nu)\text{-over-bar}$) 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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- CXIX. **In-medium modification of dijets in PbPb collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXX. **First measurement of large area jet transverse momentum spectra in heavy-ion collisions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.5, 2021 (SCI-Expanded)
- CXXI. **Angular analysis of the decay $B^{+-} \rightarrow K^{*}(892)(+)\mu^{+}\mu^{-}$ in proton-proton collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXII. **Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXIII. **Measurement of differential cross sections for Z bosons produced in association with charm jets 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.
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- CXXIV. **Development and validation of HERWIG 7 tunes from CMS underlying-event measurements**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruehwirth R., Jeitler M., et al.
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- CXXV. **Construction and commissioning of CMS CE prototype silicon modules**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgun B., Alhousseini M., Alison J., Altopp G., Alyari M., et al.
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- CXXVI. **The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgun B., Alhousseini M., Alison J., Altopp G., Alyari M., et al.
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- CXXVII. **Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons 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. **Measurement of differential $t(\bar{t})$ over-bar production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, cilt.103, sa.5, 2021 (SCI-Expanded)
- CXXIX. **Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.3, 2021 (SCI-Expanded)
- CXXX. **Search for dark photons in Higgs boson production via vector boson fusion 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.
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- CXXXI. **Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies**
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- CXXXII. **The very forward CASTOR calorimeter of the CMS experiment**
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JOURNAL OF INSTRUMENTATION, cilt.16, sa.2, 2021 (SCI-Expanded)
- CXXXIII. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)
- CXXXIV. **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants 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., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW C, cilt.103, sa.1, 2021 (SCI-Expanded)
- CXXXV. **Search for the lepton flavor violating decay $\tau \rightarrow 3 \mu$ in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
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- CXXXVI. **Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
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- CXXXVII. **Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- PHYSICS LETTERS B, cilt.812, 2021 (SCI-Expanded)
- CXXXVIII. **Evidence for Higgs boson decay to a pair of muons**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXXXIX. **Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13\text{TeV}$**
 Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Del Valle A. E., Frühwirth R., Jeitler M., et al.
 European Physical Journal C, cilt.81, sa.1, 2021 (SCI-Expanded)
- CXL. **Dependence of inclusive jet production on the anti-k(T) distance parameter in pp collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.12, 2020 (SCI-Expanded)
- CXLI. **Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at root s=13 TeV**
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 PHYSICAL REVIEW D, cilt.102, sa.11, 2020 (SCI-Expanded)
- CXLII. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CXLIII. **Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ with the CMS and TOTEM experiments**
 Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Valle A. E. D., et al.
 European Physical Journal C, cilt.80, sa.12, 2020 (SCI-Expanded)
- CXLIV. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.811, 2020 (SCI-Expanded)
- CXLV. **Measurement of B-c(2S)(+) and B-c*(2S)(+) cross section ratios in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Frühwirth R., et al.
 PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)
- CXLVI. **Measurement of the top quark Yukawa coupling from t(t)over-bar kinematic distributions in the dilepton final state in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Frühwirth R., et al.
 PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)
- CXLVII. **W+ W- boson pair production in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Frühwirth R., et al.
 PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)
- CXLVIII. **Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW D, cilt.102, sa.9, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.22, 2020 (SCI-Expanded)

CL. Investigation into the event-activity dependence of gamma(nS) relative production in proton-proton collisions at root s=7 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.11, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.11, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.15, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.809, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.10, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW D, cilt.102, sa.7, 2020 (SCI-Expanded)

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

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.15, 2020 (SCI-Expanded)

CLVIII. Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root s(NN)=5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.10, 2020 (SCI-Expanded)

CLIX. Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at root s=13 TeV

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

- PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- CLX. **Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.9, 2020 (SCI-Expanded)
- CLXI. **Pileup mitigation at CMS in 13 TeV data**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.9, 2020 (SCI-Expanded)
- CLXII. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^{+}\mu^{-}$ in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- CLXIII. **Search for resonant pair production of Higgs bosons in the $bbZZ$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CLXIV. **Measurements of $(t\bar{t})\overline{\text{H}}$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.125, sa.6, 2020 (SCI-Expanded)
- CLXV. **Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.8, 2020 (SCI-Expanded)
- CLXVI. **Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
European Physical Journal C, cilt.80, sa.8, 2020 (SCI-Expanded)
- CLXVII. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.102, sa.3, 2020 (SCI-Expanded)
- CLXVIII. **Study of central exclusive [Equation not available: see fulltext.] production in proton-proton collisions at $\sqrt{s}=5.02$ and 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.80, sa.8, 2020 (SCI-Expanded)
- CLXIX. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.8, 2020 (SCI-Expanded)
- CLXX. **Measurement of $t(\bar{t})\overline{\text{H}}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ TeV**

$s=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions

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

EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.7, 2020 (SCI-Expanded)

CLXXI. Search for disappearing tracks in proton-proton collisions at root $s=13$ TeV

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

PHYSICS LETTERS B, cilt.806, 2020 (SCI-Expanded)

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

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

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

CLXXIII. Measurement of the cross section for $t(\bar{t})$ production with additional jets and b jets in pp collisions at root $s=13$ TeV

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

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

CLXXIV. The production of isolated photons in PbPb and pp collisions at root $s(\text{NN})=5.02$ TeV

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

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

CLXXV. Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at root $s=13$ TeV

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

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

CLXXVI. Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ and 5.02 TeV

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

European Physical Journal C, cilt.80, sa.6, 2020 (SCI-Expanded)

CLXXVII. 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., Ero J., Del Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)

CLXXVIII. 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., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)

CLXXIX. Strange hadron production in pp and pPb collisions at root $(\text{NN})-\sqrt{s}=5.02$ TeV

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

PHYSICAL REVIEW C, cilt.101, sa.6, 2020 (SCI-Expanded)

CLXXX. Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at root $s=13$ TeV and constraints on anomalous quartic couplings

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

- JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)
- CLXXXI. **A measurement of the Higgs boson mass in the diphoton decay channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- CLXXXII. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, cilt.15, sa.6, 2020 (SCI-Expanded)
- CLXXXIII. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CLXXXIV. **Search for dijet resonances using events with three jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.805, 2020 (SCI-Expanded)
- CLXXXV. **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.
PHYSICS LETTERS B, cilt.804, 2020 (SCI-Expanded)
- CLXXXVI. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CLXXXVII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at root s=13 TeV**
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- :LXXXVIII. **Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at root s=13 TeV**
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- CLXXXIX. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CXC. **Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at root s=13 TeV**
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PHYSICAL REVIEW LETTERS, cilt.124, sa.20, 2020 (SCI-Expanded)
- CXCI. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.

- European Physical Journal C, cilt.80, sa.5, 2020 (SCI-Expanded)
- CXCII. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- CXCIII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CXCIV. **Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
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- CXCV. **Measurement of properties of $B(s)(0)s \rightarrow \mu(+)\mu(-)$ decays and search for $B-0 \rightarrow \mu(+)\mu(-)$ with the CMS experiment**
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- CXCVI. **Constraints on the $\chi(c1)$ versus $\chi(c2)$ Polarizations in Proton-Proton Collisions at $\sqrt{s}=8\text{TeV}$**
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- CXCVII. **Measurement of the $t(\bar{t})\bar{b}(b)$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
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- CXCVIII. **Production of $\Lambda(+)(c)$ baryons in proton-proton and lead-lead collisions at $\sqrt{S\text{-NN}}=5.02\text{TeV}$**
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- CXCIX. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
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- CC. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCI. **Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
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- CCII. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

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

PHYSICS LETTERS B, cilt.802, 2020 (SCI-Expanded)

CCIII. **A search for the standard model Higgs boson decaying to charm quarks**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCIV. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCV. **Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at root s=13TeV**

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.2020, sa.3, 2020 (SCI-Expanded)

CCVI. **A multi-dimensional search for new heavy resonances decaying to boosted WW , WZ , or ZZ boson pairs in the dijet final state at 13 Te**

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

European Physical Journal C, cilt.80, sa.3, 2020 (SCI-Expanded)

CCVII. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow l^+ l^- b \bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCVIII. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCIX. **Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at root s=13 TeV**

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

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CCX. **Search for supersymmetry in pp collisions at root s=13 TeV with 137 fb(-1) in final states with a single lepton using the sum of masses of large-radius jets**

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

PHYSICAL REVIEW D, cilt.101, sa.5, 2020 (SCI-Expanded)

CCXI. **Search for lepton flavour violating decays of a neutral heavy 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., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)

CCXII. **Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at root s=13 TeV**

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

- E., Flechl M., et al.
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- CCXIII. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton 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., Eroee J., Del Valle A. E., et al.
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- CCXIV. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
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- CCXV. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at root s=13 TeV**
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JOURNAL OF INSTRUMENTATION, cilt.15, sa.2, 2020 (SCI-Expanded)
- CCXVI. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., Flechl M., et al.
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- CCXVII. **Observation of nuclear modifications in W-+/- boson production in pPb collisions at root s(NN)=8.16 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCXVIII. **Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCXIX. **Searches for physics beyond the standard model with the MT 2 variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCXX. **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 root s=13TeV**
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.
PHYSICS LETTERS B, cilt.800, 2020 (SCI-Expanded)
- CCXXI. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft tau Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.124, sa.4, 2020 (SCI-Expanded)
- CCXXII. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
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.

- EUROPEAN PHYSICAL JOURNAL C, cilt.80, sa.1, 2020 (SCI-Expanded)
- CCXXIII. **Multiparticle correlation studies 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.
PHYSICAL REVIEW C, cilt.101, sa.1, 2020 (SCI-Expanded)
- CCXXIV. **Search for electroweak production of a vector-like T quark using fully hadronic final states**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.1, 2020 (SCI-Expanded)
- CCXXV. **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)
- CCXXVI. **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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- CCXXVII. **Recycling of an Agricultural Bio-waste as a Novel Cellulose Aerogel: A Green Chemistry Study**
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- CCXXVIII. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCXXIX. **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.
PHYSICAL REVIEW LETTERS, cilt.123, sa.23, 2019 (SCI-Expanded)
- CCXXX. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.12, 2019 (SCI-Expanded)
- CCXXXI. **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.
PHYSICAL REVIEW C, cilt.100, sa.6, 2019 (SCI-Expanded)
- CCXXXII. **Measurements of differential Z boson production cross sections 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.
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- CCXXXIII. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.12, 2019 (SCI-Expanded)
- CCXXXIV. **Study of the $B^+ \rightarrow J/\psi(\Lambda)\bar{p}$ decay in proton-proton collisions at $\sqrt{s}=8$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
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- CCXXXV. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXXVI. **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)
- CCXXXVII. **Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.100, sa.11, 2019 (SCI-Expanded)
- CCXXXVIII. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, cilt.123, sa.24, 2019 (SCI-Expanded)
- CCXXXIX. **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)
- CCXL. **Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.11, 2019 (SCI-Expanded)
- CCXLI. **Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXLII. **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., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, cilt.79, sa.11, 2019 (SCI-Expanded)
- CCXLIII. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXLIV. **Search for MSSM Higgs bosons decaying to $\mu^{+}\mu^{-}$ in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, cilt.798, 2019 (SCI-Expanded)
- CCXLV. **Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in p p collisions at $\sqrt{s}=8$ TeV**

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

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

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

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

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

CCXLVII. **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 $s=13\text{ TeV}$**

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

PHYSICAL REVIEW D, cilt.100, sa.7, 2019 (SCI-Expanded)

CCXLVIII. **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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.10, 2019 (SCI-Expanded)

CCXLIX. **Search for Higgs and Z boson decays to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at root $s=13\text{ TeV}$**

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

PHYSICS LETTERS B, cilt.797, 2019 (SCI-Expanded)

CCL. **Search for pair production of vectorlike quarks in the fully hadronic final state**

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

PHYSICAL REVIEW D, cilt.100, sa.7, 2019 (SCI-Expanded)

CCLI. **Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at root $s(NN)=5.02\text{ TeV}$**

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

PHYSICS LETTERS B, cilt.797, 2019 (SCI-Expanded)

CCLII. **Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at root $s=13\text{ TeV}$**

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

PHYSICS LETTERS B, cilt.797, 2019 (SCI-Expanded)

CCLIII. **Measurement of the top quark polarization and $t(\bar{t})$ over-barspin correlations using dilepton final states in proton-proton collisions at root $s=13\text{ TeV}$**

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

PHYSICAL REVIEW D, cilt.100, sa.7, 2019 (SCI-Expanded)

CCLIV. **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 $s=13\text{ TeV}$**

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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.10, 2019 (SCI-Expanded)

CCLV. **Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at root $s=13\text{ TeV}$**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.10, 2019 (SCI-Expanded)

CCLVI. Charged-particle angular correlations in XeXe 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.

PHYSICAL REVIEW C, cilt.100, sa.4, 2019 (SCI-Expanded)

CCLVII. Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

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

PHYSICAL REVIEW LETTERS, cilt.123, sa.13, 2019 (SCI-Expanded)

CCLVIII. Measurement of B-s(0) meson production in pp and PbPb collisions at $\sqrt{s-NN}=5.02$ TeV

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

PHYSICS LETTERS B, cilt.796, ss.168-190, 2019 (SCI-Expanded)

CCLIX. A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV

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

PHYSICS LETTERS B, cilt.796, ss.131-154, 2019 (SCI-Expanded)

CCLX. Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s}=13$ TeV

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

European Physical Journal C, cilt.79, sa.9, 2019 (SCI-Expanded)

CCLXI. title Measurement of electroweak WZ boson production and search for new physics in WZ two jets events in pp collisions at $\sqrt{s}=13$ TeV

ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A. Physics Letters B, cilt.795, ss.281-307, 2019 (SCI-Expanded)

CCLXII. Centrality and pseudorapidity dependence of the transverse energy density in pPb 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., Ero J., et al.

PHYSICAL REVIEW C, cilt.100, sa.2, 2019 (SCI-Expanded)

CCLXIII. Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=13$ 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.8, 2019 (SCI-Expanded)

CCLXIV. Measurement of exclusive $\rho(770)0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{sNN}=5.02$ TeV

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

European Physical Journal C, cilt.79, sa.8, 2019 (SCI-Expanded)

CCLXV. 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.

PHYSICS LETTERS B, cilt.795, ss.76-99, 2019 (SCI-Expanded)

CCLXVI. 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

KAYA M., GÜLMEZ E., KAYIŞ TOPAKSU A., KAYA Ö., ÇERÇİ S., ÖZKORUCUKLU S., TEK TEN S.
Physics Letters B, cilt.795, ss.398-423, 2019 (SCI-Expanded)

- CCLXVII. **Search for the production of (WWW -/+)-W-+/-W-+/- events at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, cilt.100, sa.1, 2019 (SCI-Expanded)
- CCLXVIII. **Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV**
ÇERÇİ S., GÜLMEZ E., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCLXIX. **Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=13$ TeV using the CMS detector**
ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
Journal Of Instrumentation, cilt.14, ss.7004, 2019 (SCI-Expanded)
- CCLXX. **Studies of Beauty Suppression via Nonprompt D-0 Mesons in Pb-Pb Collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.123, sa.2, 2019 (SCI-Expanded)
- CCLXXI. **Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau_{\pm}\nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., KAYA M.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCLXXII. **Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.6, 2019 (SCI-Expanded)
- CCLXXIII. **Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV**
ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., TEK TEN S., YETKİN E. A.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCLXXIV. **Search for invisible decays of a Higgs boson produced through vector boson fusion 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.
PHYSICS LETTERS B, cilt.793, ss.520-551, 2019 (SCI-Expanded)
- CCLXXV. **An embedding technique to determine $\tau\tau$ backgrounds in proton-proton collision data**
ÇERÇİ S., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., TEK TEN S., GÜLMEZ E., YETKİN E. A.
Journal Of Instrumentation, cilt.14, ss.6032, 2019 (SCI-Expanded)
- CCLXXVI. **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**
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.793, ss.320-347, 2019 (SCI-Expanded)
- CCLXXVII. **Measurements of the Higgs boson width and anomalous $\kappa_{\tau\tau}$ couplings from on-shell and off-shell production in the four-lepton final state**
ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., YETKİN E. A.
PHYSICAL REVIEW D, cilt.99, 2019 (SCI-Expanded)

- :CLXXVIII. **Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV**
 ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., TEKTEK S., YETKİN E. A.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCLXXIX. **Search for associated production of a Higgs boson and a single top 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., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICAL REVIEW D, cilt.99, sa.9, 2019 (SCI-Expanded)
- CCLXXX. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV**
 KAYIŞ TOPAKSU A., GÜLMEZ E., KAYA Ö., ÇERÇİ S., YETKİN E. A., ÖZKORUCUKLU S., TEKTEK S., KAYA M.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCLXXXI. **Search for an L-mu - L-tau gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.792, ss.345-368, 2019 (SCI-Expanded)
- CCLXXXII. **Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV**
 KAYA M., GÜLMEZ E., ÇERÇİ S., KAYA Ö., KAYIŞ TOPAKSU A., YETKİN E. A., ÖZKORUCUKLU S.
 Physics Letters B, cilt.792, ss.369-396, 2019 (SCI-Expanded)
- :CLXXXIII. **Search for a low-mass $\tau(-)\tau(+)$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.5, 2019 (SCI-Expanded)
- :CLXXXIV. **Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
 European Physical Journal C, cilt.79, sa.5, 2019 (SCI-Expanded)
- CCLXXXV. **Combinations of single-top-quark production cross-section measurements and $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS experiments**
 ÇERÇİ S., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEKTEK S., YETKİN E. A.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- :CLXXXVI. **Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.5, 2019 (SCI-Expanded)
- CLXXXVII. **Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
 ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEKTEK S., YETKİN E. A.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- :LXXXVIII. **Search for a W' boson decaying to a tau lepton and a neutrino 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.792, ss.107-131, 2019 (SCI-Expanded)

- 3CLXXXIX. **Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
 Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., et al.
 European Physical Journal C, cilt.79, sa.4, 2019 (SCI-Expanded)
- CCXC. **Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $s \sqrt{s} = 13 \text{ TeV}$**
 ÇERÇİ S., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCXCI. **Search for nonresonant Higgs boson pair production in the $b(\bar{b})\bar{b}(b)$ final state at $\sqrt{s}=13 \text{ TeV}$**
 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.2019, sa.4, 2019 (SCI-Expanded)
- CCXCII. **Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $s = 13 \sqrt{s}=13 \text{ TeV}$**
 ÇERÇİ S., GÜLMEZ E., KAYA M., KAYA Ö., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCXCIII. **Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13\sqrt{s}, \text{TeV}$ $s = 13 \text{ TeV}$ and combination with the leptonjets channel**
 ÇERÇİ S., GÜLMEZ E., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCXCIV. **Search for $W \rightarrow \mu\tau$ Boson Decays to Three Charged Pions**
 ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
 Physical Review Letters, cilt.122, 2019 (SCI-Expanded)
- CCXCV. **Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s}=5.02 \text{ TeV}$**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 PHYSICAL REVIEW LETTERS, cilt.122, sa.15, 2019 (SCI-Expanded)
- CCXCVI. **Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13\sqrt{s}, \text{TeV}$ $s = 13 \text{ TeV}$**
 ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCXCVII. **Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s}=13\sqrt{s}, \text{TeV}$ $s = 13 \text{ TeV}$**
 KAYA M., ZEYREK M. T., KAYIŞ TOPAKSU A., GÜLMEZ E., KAYA Ö., ÇERÇİ S., YETKİN E. A., ÖZKORUCUKLU S.
 Physical Review Letters, cilt.122, 2019 (SCI-Expanded)
- CCXCVIII. **Search for excited leptons in final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.4, 2019 (SCI-Expanded)
- CCXCIX. **Search for resonant $t(\bar{t})$ production in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$**
 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.2019, sa.4, 2019 (SCI-Expanded)
- CCC. **Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13 \text{ TeV}$**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.791, ss.96-129, 2019 (SCI-Expanded)

- CCCI. **Observation of prompt J/psi meson elliptic flow in high-multiplicity pPb collisions at root s(NN)=8.16 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, cilt.791, ss.172-194, 2019 (SCI-Expanded)
- CCCII. **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at s = 13 \sqrt{s}=13 TeV**
 ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., TEK TEN S., YETKİN E. A.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCCIII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton jets final state in pp collisions at \sqrt{s} = 13\,\text{TeV} s = 13 TeV**
 KAYA M., ÇERÇİ S., KAYA Ö., KAYIŞ TOPAKSU A., ZEYREK M. T., TEK TEN S., ÖZKORUCUKLU S., YETKİN E. A.
 European Physical Journal C, cilt.79, 2019 (SCI-Expanded)
- CCCIV. **Measurement of exclusive Y photoproduction from protons in p Pb collisions at \sqrt{sNN}=5.02TeV**
 Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
 European Physical Journal C, cilt.79, sa.3, 2019 (SCI-Expanded)
- CCCIV. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, cilt.790, ss.140-166, 2019 (SCI-Expanded)
- CCCVI. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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- CCCVII. **Search for t(t)over-barH production in the H -> b(b)over-bar decay channel with leptonic t(t)over-bar decays in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.3, 2019 (SCI-Expanded)
- CCCVIII. **Inclusive search for supersymmetry in pp collisions at s = 13 \sqrt{s}=13 TeV using razor variables and boosted object identification in zero and one lepton final states**
 KAYA M., KAYIŞ TOPAKSU A., GÜLMEZ E., ZEYREK M. T., KAYA Ö., ÇERÇİ S., YETKİN E. A., ÖZKORUCUKLU S., TEK TEN S.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- CCCIX. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW LETTERS, cilt.122, sa.12, 2019 (SCI-Expanded)
- CCCX. **Search for pair production of first-generation scalar leptoquarks at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW D, cilt.99, sa.5, 2019 (SCI-Expanded)
- CCCXI. **Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, cilt.2019, sa.3, 2019 (SCI-Expanded)

- CCCXII. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton 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., Eroee J., et al.
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- CCCXIII. **Measurement of associated production of a W boson and a charm quark in proton–proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXIV. **Measurement of nuclear modification factors of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CCCXV. **Search for Narrow H γ Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CCCXVI. **Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton–proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXVII. **Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXVIII. **Search for the pair production of light top squarks in the $e\pm\mu\bar{\tau}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXIX. **Search for single production of vector-like quarks decaying to a top quark and a W boson in proton–proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXX. **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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- CCCXXI. **Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV**
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- CCCXXII. **Beyond nPDFs effects : Prompt J/ ψ and $\psi(2S)$ production in pPb and pp collisions**
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- CCCXXIII. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**
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- CCCXXVI. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
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- CCCXXVII. **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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- CCCXXVIII. **Multiparticle correlations and higher order harmonics in pPb collisions at root s(NN)=8.16 TeV**
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- CCCXXIX. **Search for new particles decaying to a jet and an emerging jet**
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- CCCXXX. **Evidence for light-by-light scattering in ultraperipheral PbPb collisions at root S-NN=5.02 TeV**
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- CCCXXXI. **Search for rare decays of Z and Higgs bosons to J / ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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- CCCXXXII. **Study of the underlying event in top quark pair production in p p collisions at 13 Te**
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- CCCXXXIII. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
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- CCCXXXIV. **Measurement of differential cross sections for Z boson pair production in association with jets at root s=8 and 13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

Valle A. E., et al.

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CCCXXXV. **Measurements of $t(\bar{t})$ over-bar differential cross sections in proton-proton collisions at root s=13 TeV using events containing two leptons**

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

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CCXXXVI. **Search for heavy Majorana neutrinos in same-sign dilepton channels 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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CCXXXVII. **Search for Higgs boson pair production in the $\gamma\gamma b(\bar{b})$ over-bar final state in pp collisions at root s=13 TeV**

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

PHYSICS LETTERS B, cilt.788, ss.7-36, 2019 (SCI-Expanded)

CCXXXVIII. **Search for pair-produced three-jet resonances in proton-proton collisions at root s=13 TeV**

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

PHYSICAL REVIEW D, cilt.99, sa.1, 2019 (SCI-Expanded)

CCXXXIX. **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV**

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CCCXL. **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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CCCXLI. **Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV**

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CCCXLII. **Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

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

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CCCXLIII. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**

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

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CCCXLIV. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**

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

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CCCXLV. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV**

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- CCCXLVI. **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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- CCCXLVII. **Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCCXLVIII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
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- CCCXLIX. **Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., YETKİN E. A.
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- CCCL. **Search for pair-produced resonances decaying to quark pairs 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.
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- CCCLI. **Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ 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.
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- CCCLII. **Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜR MELİ Z. S., YETKİN E. A.
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- CCCLIII. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CCCLIV. **Search for the decay of a Higgs boson in the $h \rightarrow \gamma \gamma$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLV. **Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCLVI. **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
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- CCCLVII. **Measurement of jet substructure observables in $\sqrt{s}=13\text{TeV}$ events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜRME Lİ Z. S., YETKİN E. A.
PHYSICAL REVIEW D, cilt.98, 2018 (SCI-Expanded)
- CCCLVIII. **Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜRME Lİ Z. S., YETKİN E. A.
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- CCCLIX. **Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, cilt.78, sa.11, 2018 (SCI-Expanded)
- CCCLX. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
GÜLMEZ E., ÇERÇİ S., TEK TEN S., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZTÜRK S., SUNAR ÇERÇİ D., YETKİN T., YETKİN E. A.
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- CCCLXI. **Measurement of the top quark mass with lepton+jets final states using p p collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CCCLXII. **Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜRME Lİ Z. S., YETKİN E. A.
PHYSICAL REVIEW D, cilt.98, 2018 (SCI-Expanded)
- CCCLXIII. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜRME Lİ Z. S., YETKİN E. A.
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- CCCLXIV. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13TeV**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜRME Lİ Z. S., YETKİN E. A.
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- CCCLXV. **Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Escalante Del Valle A., et al.
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- CCCLXVI. **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**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
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- CCCLXVII. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- :CCLXVIII. **Studies of $B_s(5840)0$ and $B_s(5830)0$ mesons including the observation of $\sqrt{s}=8\text{TeV}$**
Sirunyan A., Tumasyan A., GÜLMEZ E., KAYA M., KAPLAN A., ÖZKORUCUKLU S., TEK TEN AKSÜR MELİ Z. S., YETKİN E. A.
European Physical Journal C, cilt.78, 2018 (SCI-Expanded)
- CCCLXIX. **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW C, cilt.98, sa.4, 2018 (SCI-Expanded)
- CCCLXX. **Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
CAN KOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.
Physical Review Letters, cilt.121, 2018 (SCI-Expanded)
- CCCLXXI. **Precision measurement of the structure of the CMS inner tracking system using nuclear interactions**
CAN KOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.
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- CCCLXXII. **Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.10, 2018 (SCI-Expanded)
- :CCLXXIII. **Observation of the $Z \rightarrow \mu\mu$ Decay in pp Collisions at $\sqrt{s}=13$ TeV**
CAN KOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.
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- :CCLXXIV. **Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.10, 2018 (SCI-Expanded)
- CCCLXXV. **Performance of reconstruction and identification of τ leptons decaying to hadrons and $\nu\tau$ in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜR MELİ Z. S., YETKİN E. A.
Journal Of Instrumentation, cilt.13, ss.10005, 2018 (SCI-Expanded)
- :CCLXXVI. **Charged-particle nuclear modification factors in XeXe 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., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.10, 2018 (SCI-Expanded)

CCLXXVII. **Study of jet quenching with isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=5.02 TeV**

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

PHYSICS LETTERS B, cilt.785, ss.14-39, 2018 (SCI-Expanded)

:CLXXVIII. **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.

PHYSICS LETTERS B, cilt.785, ss.462-488, 2018 (SCI-Expanded)

:CCLXXIX. **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., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.9, 2018 (SCI-Expanded)

CCCLXXX. **Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13\text{TeV}$ and constraints on dark matter and other models**

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

European Physical Journal C, cilt.78, sa.9, 2018 (SCI-Expanded)

:CCLXXXI. **Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at $8\sqrt{s}\text{TeV}$**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., YETKİN E. A., YETKİN T., ZEYREK M. T.

European Physical Journal C, cilt.78, 2018 (SCI-Expanded)

CCLXXXII. **Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13\text{TeV}$**

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

European Physical Journal C, cilt.78, sa.9, 2018 (SCI-Expanded)

:CLXXXIII. **Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

CMS C., SUNAR ÇERÇİ D., ÇERÇİ S., DUMANOĞLU İ., EŞKUT E., KAYIŞ TOPAKSU A., KANGAL E. E., ÖZDEMİR K., ÖZTÜRK S., POLATÖZ A., et al.

European Physical Journal C, cilt.78, 2018 (SCI-Expanded)

:CLXXXIV. **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., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.9, 2018 (SCI-Expanded)

CCLXXXV. **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., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.9, 2018 (SCI-Expanded)

:CLXXXVI. **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**

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, cilt.2018, sa.9, 2018 (SCI-Expanded)

CLXXXVII. **Observation of Higgs Boson Decay to Bottom Quarks**

Sirunyan A., Tumasyan A., Adam W., GÜLMEZ E., KAYA M., KAYA Ö., ÖZKORUCUKLU S., TEK TEN AKSÜR MELİ Z. S., YETKİN E. A.

Physical Review Letters, cilt.121, ss.1-20, 2018 (SCI-Expanded)

.LXXXVIII. **Measurement of the $Z/\gamma^* \rightarrow \tau\tau$ cross section in pp collisions at $\sqrt{s}=13\text{TeV}$ and validation of τ lepton analysis techniques**

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

European Physical Journal C, cilt.78, sa.9, 2018 (SCI-Expanded)

.CLXXXIX. **Search for dark matter produced in association with a Higgs boson decaying to $\gamma\gamma$ or $\tau\tau$ – at $s=13\sqrt{s}=13\text{TeV}$**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.

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

CCCXC. **Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., ZEYREK M. T.

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

CCCXCI. **title Observation of the $m_{\mu\mu}$ and $m_{\tau\tau}$ and Measurement of their Masses/title**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.

Physical Review Letters, cilt.121, 2018 (SCI-Expanded)

CCCXCII. **Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**

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

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

CCCXCIII. **Search for beyond the standard model Higgs bosons decaying into a $b\bar{b}$**

$\overline{\mathbf{b}}\mathbf{b}$ pair in pp collisions at $s=13\sqrt{s}=13\text{TeV}$

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN E. A., YETKİN T., et al.

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

CCCXCIV. **title Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13\text{TeV}$ and constraints on dark matter mediators and other new particles**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEK TEN S., YETKİN T., ZEYREK M. T.

PHYSICAL REVIEW D, cilt.98, 2018 (SCI-Expanded)

CCCXCV. **Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13\text{TeV}$**

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

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

CCCXCVI. **Search for narrow and broad dijet resonances in proton-proton collisions at $s=13\sqrt{s}=13\text{TeV}$ and constraints on dark matter mediators and other new particles**

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEKTEK S., YETKİN E. A., YETKİN T., et al.

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

CCCXCVII. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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

PHYSICAL REVIEW LETTERS, cilt.121, sa.6, 2018 (SCI-Expanded)

:CCXCVIII. **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 $\sqrt{s}=13$ TeV**

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

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

CCCXCIX. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at $\sqrt{s(NN)}=8.16$ TeV**

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

PHYSICAL REVIEW LETTERS, cilt.121, sa.8, 2018 (SCI-Expanded)

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

CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZKORUCUKLU S., TEKTEK S., YETKİN E. A., YETKİN T., et al.

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

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

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

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

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

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

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

CDIII. **Electroweak production of two jets in association with a Z 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., Brondolin E., Dragicevic M., Eroo J., et al.

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

CDIV. **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., Ambrogio 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)

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

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

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

CDVI. **Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV**

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

Journal of Instrumentation, cilt.13, sa.6, 2018 (SCI-Expanded)

- CDVII. **Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0}\mu^{+}\mu^{-}$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.781, ss.517-541, 2018 (SCI-Expanded)
- CDVIII. **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICS LETTERS B, cilt.781, ss.244-269, 2018 (SCI-Expanded)
- CDIX. **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 $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
PHYSICAL REVIEW D, cilt.97, sa.11, 2018 (SCI-Expanded)
- CDX. **Search for lepton flavour violating decays of the Higgs boson to $\mu\tau$ and $e\tau$ 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, 2018 (SCI-Expanded)
- CDXI. **Search for high-mass resonances in dilepton final states 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, ss.1-43, 2018 (SCI-Expanded)
- CDXII. **Search for high-mass resonances in final states with a lepton 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, 2018 (SCI-Expanded)
- CDXIII. **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables 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., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, 2018 (SCI-Expanded)
- CDXIV. **Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, cilt.78, sa.6, 2018 (SCI-Expanded)
- CDXV. **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., Eroee J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.24, 2018 (SCI-Expanded)
- CDXVI. **Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, 2018 (SCI-Expanded)
- CDXVII. **Search for excited quarks of light and heavy flavor in γ plus jet final states 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.781, ss.390-411, 2018 (SCI-Expanded)
- CDXVIII. **Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8\text{TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, cilt.78, sa.6, 2018 (SCI-Expanded)
- CDXIX. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.6, 2018 (SCI-Expanded)
- CDXX. **Observation of (tt)over-barH Production**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.23, 2018 (SCI-Expanded)
- CDXXI. **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)
- CDXXII. **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)
- CDXXIII. **Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
Journal of Instrumentation, cilt.13, sa.5, 2018 (SCI-Expanded)
- CDXXIV. **Search for natural and split supersymmetry in proton-proton collisions at root s=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.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.5, 2018 (SCI-Expanded)
- CDXXV. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.20, 2018 (SCI-Expanded)
- CDXXVI. **Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at ,root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.780, ss.118-143, 2018 (SCI-Expanded)
- CDXXVII. **Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.20, 2018 (SCI-Expanded)
- CDXXVIII. **Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Eroe J., et al.
PHYSICS LETTERS B, cilt.780, ss.384-409, 2018 (SCI-Expanded)
- CDXXIX. **Evidence for the Higgs boson decay to a bottom quark-antiquark pair**
GÜLMEZ E., KAYIŞ TOPAKSU A., DUMANOĞLU İ., CANKOÇAK K., ÖNENGÜT G., KAYA M., KAYA Ö., YETKİN E. A., ZEYREK M. T., ÖZDEMİR K., et al.
Physics Letters B, cilt.780, ss.501-532, 2018 (SCI-Expanded)
- CDXXX. **Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets root s 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.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.5, 2018 (SCI-Expanded)
- CDXXXI. **Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at root s=13 TeV**
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.
PHYSICAL REVIEW LETTERS, cilt.120, sa.22, 2018 (SCI-Expanded)
- CDXXXII. **Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Drag-icevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.5, 2018 (SCI-Expanded)
- CDXXXIII. **Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance 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.9, 2018 (SCI-Expanded)
- CDXXXIV. **Jet properties in PbPb and pp collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2018, sa.5, 2018 (SCI-Expanded)
- CDXXXV. **Measurement of quarkonium production cross sections in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.780, ss.251-272, 2018 (SCI-Expanded)
- CDXXXVI. **Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.120, sa.20, 2018 (SCI-Expanded)
- CDXXXVII. **Search for decays of stopped exotic long-lived particles produced 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, cilt.2018, sa.5, 2018 (SCI-Expanded)
- DXXXVIII. **Search for new long-lived particles 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.780, ss.432-454, 2018 (SCI-Expanded)
- CDXXXIX. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Ero J., et al.
 PHYSICAL REVIEW D, cilt.97, sa.7, 2018 (SCI-Expanded)
- CDXL. **Measurement of the Lambda(b) polarization and angular parameters in Lambda(b) -> J/psi Lambda decays from pp collisions at root 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)
- CDXLI. **Search for pair production of vector-like quarks in the $b\bar{b}$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV**
 GÜLMEZ E., TEKTEK S., ÇERÇİ S., KAYA Ö., KAYA M., KAYIŞ TOPAKSU A., ÖZTÜRK S., SUNAR ÇERÇİ D., ÖZKORUCUKLU S., YETKİN T., et al.
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- CDXLII. **Observation of the Higgs boson decay to a pair of τ leptons with the CMS detector**
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- DII. **Measurements of the pp \rightarrow W gamma gamma and pp \rightarrow Z gamma gamma cross sections and limits on anomalous quartic gauge couplings at root $s=8$ TeV**
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- DIII. **Measurement of the B-+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root $s(NN)=5.02$ TeV**
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- DVI. **Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- DVII. **Search for associated production of dark matter with a Higgs boson decaying to $b(\bar{b})$ over-bar or $\gamma\gamma$ at $\sqrt{s}=13$ TeV**
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- DVIII. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV**
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- DIX. **Search for new phenomena with the MT 2 variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- DX. **Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- DXI. **Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
COLLABORATION C., SIRUNYAN A. M., KAYA M., GÜLMEZ E., CANKOÇAK K., ADIGÜZEL A.
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- DXII. **Search for high-mass Z gamma resonances in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV using jet substructure techniques**
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.363-387, 2017 (SCI-Expanded)
- DXIII. **Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- DXIV. Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV with the CMS experiment**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- DXV. Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, cilt.119, sa.11, 2017 (SCI-Expanded)
- DXVI. Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- DXVII. Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV**
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PHYSICS LETTERS B, cilt.772, ss.336-358, 2017 (SCI-Expanded)
- DXVIII. Measurement of the $t(\bar{t})$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV**
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- DXIX. Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
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PHYSICS LETTERS B, cilt.772, ss.306-329, 2017 (SCI-Expanded)
- DXX. Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- DXXI. Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s}=13$ TeV**
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- DXXII. Measurement of the top quark mass in the dileptonic $t(\bar{t})$ decay channel using the mass observables M_{bl} , M_{T2} , and M_{blv} in pp collisions at $\sqrt{s}=8$ TeV**
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- DXXIII. Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp 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.
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- DXXIV. Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at**

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- DXXV. **Measurement of the differential inclusive B hadron cross sections in pp collisions at $\sqrt{s}=13$ TeV**
ÇERÇİ S., GÜLMEZ E., KAYIŞ TOPAKSU A., CANKOÇAK K., KAYA Ö., ZEYREK M. T., KAYA M.
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- DXXVI. **Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- DXXVII. **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)
- DXXVIII. **Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV**
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- DXXIX. **Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- DXXX. **Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s}=8$ 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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- DXXXI. **Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s}=13$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW D, cilt.96, sa.1, 2017 (SCI-Expanded)
- DXXXII. **Suppression of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.770, ss.357-379, 2017 (SCI-Expanded)
- DXXXIII. **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s}=13$ TeV**
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- DXXXIV. **Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV**
Collaboration C., SÖNMEZ N., GÜLMEZ E., İŞILDAK B., KAYA M.
Physics Letters B, cilt.770, ss.50-71, 2017 (SCI-Expanded)
- DXXXV. **Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV**

- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW C, cilt.96, sa.1, 2017 (SCI-Expanded)
- DXXXVI. **Measurement of the jet mass in highly boosted $t(\bar{t})$ events from pp collisions at root $s=8\text{TeV}$**
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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- DXXXVII. **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 $s=13\text{TeV}$**
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- DXXXVIII. **Search for new physics with dijet angular distributions in proton-proton collisions at root $S = 13\text{TeV}$**
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- DXXXIX. **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root $s_{NN}=5.02\text{TeV}$**
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PHYSICAL REVIEW C, cilt.96, sa.1, 2017 (SCI-Expanded)
- DXL. **Search for $t(\bar{t})$ resonances in highly boosted lepton plus jets and fully hadronic final states 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., Eroo J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2017, sa.7, 2017 (SCI-Expanded)
- DXLI. **Search for heavy gauge W^\pm bosons in events with an energetic lepton and large missing transverse momentum at root $s=13\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.770, ss.278-301, 2017 (SCI-Expanded)
- DXLII. **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 $s=8\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.770, ss.380-402, 2017 (SCI-Expanded)
- DXLIII. **Measurement of double-differential cross sections for top quark pair production in pp collisions at root $s=8\text{TeV}$ and impact on parton distribution functions**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.7, 2017 (SCI-Expanded)
- DXLIV. **Measurement of electroweak-induced production of W gamma with two jets in pp collisions at root $s=8\text{TeV}$ 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., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2017, sa.6, 2017 (SCI-Expanded)
- DXLV. **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13TeV**

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.769, ss.391-412, 2017 (SCI-Expanded)

DXLVI. Search for dijet resonances in proton-proton collisions at $\sqrt{s}=13$ 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., Eroo J., Flechl M., et al.
PHYSICS LETTERS B, cilt.769, ss.520-542, 2017 (SCI-Expanded)

DXLVII. Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)

DXLVIII. Observation of $\gamma(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8$ TeV

ÇERÇİ S., DUMANOĞLU İ., KAYA M., TALİ B., YETKİN T., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., EŞKUT E., BAKIRCI M. N., et al.
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DXLIX. Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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DL. 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., Eroo J., et al.
PHYSICS LETTERS B, cilt.768, ss.103-129, 2017 (SCI-Expanded)

DLI. A search for new phenomena in pp collisions at $\sqrt{s}=13$ TeV 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., Eroo J., et al.
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DLII. Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=13$ TeV and combination with 8 TeV data

GÜLMEZ E., KAYIŞ TOPAKSU A., ÇERÇİ S., DUMANOĞLU İ., CANKOÇAK K., ÖNENGÜT G., KAYA M., KAYA Ö., YETKİN E. A., YETKİN T., et al.
Physics Letters B, cilt.768, ss.57-80, 2017 (SCI-Expanded)

DLIII. Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.77, sa.5, 2017 (SCI-Expanded)

DLIV. Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search

ÇERÇİ S., DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., KANGAL E. E., HOŞ İ., ÖZDEMİR K., et al.
Physics Letters B, cilt.767, ss.147-170, 2017 (SCI-Expanded)

DLV. Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s}=8$ TeV

DUMANOĞLU İ., KAYA M., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., TOPAKLI H., BAKIRCI M. N., ÖZTÜRK S., ZEYREK M. T., ÖZDEMİR K., et al.
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- DLVI. **Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at $\sqrt{s}(NN)=5.02$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erofeev J., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.118, sa.16, 2017 (SCI-Expanded)
- DLVII. **Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s}=8$ TeV using the $\alpha(T)$ variable**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erofeev J., et al.
 PHYSICS LETTERS B, cilt.767, ss.403-430, 2017 (SCI-Expanded)
- DLVIII. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at $\sqrt{s}=8$ TeV**
 DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., BAKIRCI M. N., TOPAKLI H., ZEYREK M. T., ÖZDEMİR K., et al.
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- DLIX. **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**
 ÇERÇİ S., KAYA M., GÜLMEZ E., KAYIŞ TOPAKSU A., KANGAL E. E., HOŞ İ., IŞILDAK B., ZEYREK M. T., SUNAR ÇERÇİ D., ÇAKIR M. A., et al.
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- DLX. **Mechanical stability of the CMS strip tracker measured with a laser alignment system**
 DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., KAYIŞ TOPAKSU A., IŞILDAK B., ÖCALAN K., CANKOÇAK K., ŞEN S.
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- DLXI. **Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s}-NN=2.76$ TeV**
 DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., ÖZTÜRK S., KANGAL E. E., ÖZDEMİR K., ŞEN S., et al.
 European Physical Journal C, cilt.77, 2017 (SCI-Expanded)
- DLXII. **Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s}(NN)=5.02$ TeV**
 TALİ B., KAYA M., DUMANOĞLU İ., ÇERÇİ S., GÜLMEZ E., KAYIŞ TOPAKSU A., ÖZTÜRK S., TOPAKLI H., KANGAL E. E., ÖZDEMİR K., et al.
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- DLXIII. **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**
 TALİ B., KAYA M., DUMANOĞLU İ., ÇERÇİ S., GÜLER A. M., KAYIŞ TOPAKSU A., HOŞ İ., ÖZDEMİR K., IŞILDAK B., ÖCALAN K., et al.
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- DLXIV. **Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13$ TeV**
 DUMANOĞLU İ., KAYA M., TALİ B., YETKİN T., GÜLMEZ E., GÜLER A. M., KAYIŞ TOPAKSU A., TOPAKLI H., ÖZTÜRK S., IŞILDAK B., et al.
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- DLXV. **Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s}=8$ TeV and cross section ratios to 2.76 and 7 TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erofeev J., et al.
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- DLXVI. **Search for CP violation in $t(\bar{t})$ production and decay 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., Erofeev J., et al.

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

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

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

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

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

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

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

DLXIX. **Measurement of the $t(\bar{t})$ production cross section using events in the $e\mu$ final state in pp collisions at root s=13 TeV**

DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., KAYIŞ TOPAKSU A., ÖZTÜRK S., HOŞ İ., KANGAL E. E., ÖZDEMİR K., ZEYREK M. T., et al.

European Physical Journal C, cilt.77, 2017 (SCI-Expanded)

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

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

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

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

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

PHYSICS LETTERS B, cilt.766, ss.268-290, 2017 (SCI-Expanded)

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

DUMANOĞLU İ., KAYA M., TALİ B., GÜLMEZ E., KAYIŞ TOPAKSU A., KANGAL E. E., HOŞ İ., ÖZDEMİR K., İŞILDAK B., ÖCALAN K., et al.

Physical Review Letters, cilt.118, 2017 (SCI-Expanded)

DLXXIII. **Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at root s=8 TeV**

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DLXXIV. **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**

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DLXXV. **Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV**

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

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

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

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- DLXXVIII. **Evidence for collectivity in pp collisions at the LHC**
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- DLXXIX. **Searches for invisible decays of the Higgs boson in pp collisions at root S=7, 8, and 13 TeV**
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- DLXXX. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at root s=13 TeV**
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- DLXXXII. **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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- DLXXXIII. **Inclusive search for supersymmetry using razor variables in pp collisions at root s=13 TeV**
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- DLXXXIV. **Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at root s=13 TeV**
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- DLXXXV. **Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at root s=8 TeV**
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- DLXXXVI. **Measurements of the $t(\bar{t})$ production cross section in lepton plus jets final states in pp collisions at 8 and ratio of 8 to 7 cross sections**
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- DLXXXVII. **Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at root s=8 TeV**
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- DLXXXVIII. **Search for high-mass Z gamma resonances in $e^+e^- \rightarrow \gamma$ and $\mu^+\mu^- \rightarrow \gamma$ final states in proton-proton collisions at root s=8 and 13 TeV**
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- DLXXXIX. **Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at TeV**
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- DXC. **Search for dark matter particles in proton-proton collisions at root $s = 8$ TeV using the razor variables**
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- DXCI. **Measurement of the mass of the top quark in decays with a J/psi meson in pp collisions 8 TeV**
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- DXCII. **Search for lepton flavour violating decays of the Higgs boson to e tau and e mu in proton-proton collisions at root $s=8$ TeV**
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- DXCIII. **Searches for R-parity-violating supersymmetry in pp collisions at root $s=8$ TeV in final states with 0-4 leptons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DXCIV. **Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DXCV. **Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DXCVI. **Measurement of the ZZ production cross section and $Z \rightarrow l^{(+)}l^{(-)}l'^{(+)}l'^{(-)}$ branching fraction in pp collisions at root $s=13$ TeV**
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- DXCVII. **Search for long-lived charged particles in proton-proton collisions at root $s=13$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DXCVIII. **Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at root $s(NN)=2.76$ TeV**
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- DXCIX. **Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at root $s=8$ TeV**

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

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- DC. **Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton plus jets final states produced in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCI. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCII. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., et al.
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- DCIII. **Search for new physics with the M-T2 variable in all-jets final states produced in pp collisions at root s=13 TeV**
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- DCIV. **Measurement of the integrated and differential t(t)over-bar production cross sections for high-p(T) top quarks in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW D, cilt.94, sa.7, 2016 (SCI-Expanded)
- DCV. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCVI. **Search for R-parity violating decays of a top squark in proton-proton collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCVII. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCVIII. **Measurement of the Z gamma -> nu(nu)over-bar gamma production cross section in pp collisions at root s=8 TeV and limits on anomalous ZZ gamma and Z gamma gamma trilinear gauge boson couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- DCIX. **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**
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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- DCX. **Measurement of dijet azimuthal decorrelation in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXI. **Measurements of $t\bar{t}$ over bar charge asymmetry using dilepton final states in pp collisions at root s 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., CANKOÇAK K., GÜLMEZ E., KAYA M., KAYA Ö., et al.
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- DCXII. **Search for s channel single top quark production in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXIII. **Evidence for exclusive $\gamma\gamma \rightarrow W(+)\bar{W}(-)$ production and constraints on anomalous quartic gauge couplings in pp collisions at and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXIV. **Search for new physics in same-sign dilepton events in proton-proton collisions at root s=13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.8, 2016 (SCI-Expanded)
- DCXV. **Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXVI. **Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.759, ss.9-35, 2016 (SCI-Expanded)
- DCXVII. **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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- DCXVIII. **Measurement of the $t(\bar{t})$ 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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- DCXIX. **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at root s=13TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXX. **Search for supersymmetry in electroweak production with photons and large missing transverse energy 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.
PHYSICS LETTERS B, cilt.759, ss.479-500, 2016 (SCI-Expanded)
- DCXXI. **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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- DCXXII. **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 $\sqrt{s} = 7$ and 8 TeV**
The ATLAS collaboration A., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Aben R., AbouZeid O., Abraham N., Abramowicz H., et al.
Journal of High Energy Physics, cilt.2016, sa.8, 2016 (SCI-Expanded)
- DCXXIII. **Combined search for anomalous pseudoscalar HW couplings in $VH(H \rightarrow b\bar{b})$ production and $H \rightarrow VV$ decay**
Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., Friedl M., Fruhwirth R., et al.
PHYSICS LETTERS B, cilt.759, ss.672-696, 2016 (SCI-Expanded)
- DCXXIV. **Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.759, ss.369-394, 2016 (SCI-Expanded)
- DCXXV. **Measurement of the differential cross section and charge asymmetry for inclusive $pp \rightarrow W^{+/-} + X$ production at $\sqrt{s}=8$ TeV**
Khachatryan V. y., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.8, 2016 (SCI-Expanded)
- DCXXVI. **Study of Z boson production in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.759, ss.36-57, 2016 (SCI-Expanded)
- DCXXVII. **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXXVIII. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXXIX. **Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXXX. **Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=8$ TeV with the Novel CMS Technique of Data Scouting**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- DCXXXI. **Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s}=8$ 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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- DCXXXII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- DCXXXIII. **Search for a low-mass pseudoscalar Higgs boson produced in association with a b(b)over-bar pair in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.758, ss.296-320, 2016 (SCI-Expanded)
- DCXXXIV. **Measurement of spin correlations in tt production using the matrix element method in the muon plus jets final state in pp collisions at root S=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, cilt.758, ss.321-346, 2016 (SCI-Expanded)
- DCXXXV. **Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV**
Khachatryan v., Sirunyan A. M., Tumasyan A., Adam W., Aşilar E., Bergauer T., Flechl M., CANKOÇAK K., ÇERÇİ S., GÜLMEZ E., et al.
Physics letters B, cilt.758, ss.152-180, 2016 (SCI-Expanded)
- DCXXXVI. **Measurement of the W+W- cross section in pp collisions at root s=8 TeV and limits on anomalous gauge couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- DCXXXVII. **Measurement of t(t)over-bar production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- DCXXXVIII. **Inclusive and differential measurements of the t t over bar charge asymmetry in pp collisions at root s 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aşilar E., Bergauer T., Flechl M., Matsushita T., ÇERÇİ S., CANKOÇAK K., et al.
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- DCXXXIX. **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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- DCXL. **Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at root s=8 TeV**
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- DCXLI. **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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- DCXLII. **Search for pair-produced vectorlike B quarks in proton-proton collisions at root s=8 TeV**

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- DCXLIII. **Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV**
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- DCXLIV. **Measurement of the ratio $B(B \rightarrow J/\psi f(0)(980))/B(B \rightarrow J/\psi \phi(1020))$ in pp collisions at root s=7 TeV**
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- DCXLV. **Measurement of the top quark mass using charged particles in pp collisions at root s 8 TeV**
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- DCXLVI. **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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- DCXLVII. **Search for heavy Majorana neutrinos in $e(+/-)e(+/-)+$ jets and $e(+/-) \mu(+/-) +$ jet events in proton-proton collisions at root s=8 TeV**
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- DCXLVIII. **Search for massive WH resonances decaying into the $l \nu b(\bar{b})$ final state at root s=8 TeV**
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- DCXLIX. **Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau \tau$**
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- DCL. **Measurement of the top quark mass using proton-proton data at root(s)=7 and 8 TeV**
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- DCLI. **Search for anomalous single top quark production in association with a photon in pp collisions at root s=8 TeV**
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- DCLII. **Search for new phenomena in monophoton final states in proton proton collisions at root s 8 TeV**
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- DCLIII. **Search for $W' \rightarrow \tau \nu$ decaying to tau lepton and neutrino in proton-proton collisions at root s=8 TeV**
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- PHYSICS LETTERS B, cilt.755, ss.196-216, 2016 (SCI-Expanded)
- DCLIV. **Measurement of top quark polarisation in t-channel single top quark production**
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- DCLV. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at root s=13 TeV**
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- DCLVI. **Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at root s=8 TeV**
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- DCLVII. **Measurement of the t(t)over-bar production cross section in the all-jets final state in pp collisions at root s=8TeV**
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- DCLVIII. **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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PHYSICAL REVIEW D, cilt.93, sa.5, 2016 (SCI-Expanded)
- DCLIX. **Transverse momentum spectra of inclusive b jets in pPb collisions atv root s(NN)=5.02 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- DCLX. **Search for excited leptons in proton-proton collisions at root s=8 TeV**
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- DCLXI. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
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- DCLXII. **Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at root s=8 TeV**
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- DCLXIII. **Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at root s=13 TeV**
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- DCLXIV. **Search for pair production of first and second generation leptoquarks in proton proton collisions at root s 8 TeV**
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- DCLXV. **The transverse momentum dependence of charged kaon Bose-Einstein correlations in the SELEX experiment**
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- DCLXVI. **Search for single production of scalar leptoquarks in proton-proton collisions at root s=8 TeV**
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- DCLXVII. **Search for $W^- \rightarrow tb$ in proton-proton collisions at root s=8 TeV**
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- DCLXVIII. **Measurement of the charge asymmetry in top quark pair production in pp collisions at root s=8 TeV using a template method**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, cilt.93, sa.3, 2016 (SCI-Expanded)
- DCLXIX. **Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow ll$ with low dilepton mass in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, cilt.753, ss.341-362, 2016 (SCI-Expanded)
- DCLXX. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
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PHYSICS LETTERS B, cilt.753, ss.363-388, 2016 (SCI-Expanded)
- DCLXXI. **Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at root s=8 TeV**
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JOURNAL OF HIGH ENERGY PHYSICS, cilt.2016, sa.1, ss.1-44, 2016 (SCI-Expanded)
- DCLXXII. **Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, cilt.116, sa.3, 2016 (SCI-Expanded)
- DCLXXIII. **Search for resonant $t(\bar{t})$ production in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW D, cilt.93, sa.1, 2016 (SCI-Expanded)
- DCLXXIV. **Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2016, sa.1, ss.1-46, 2016 (SCI-Expanded)
- DCLXXV. **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., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2016, sa.1, 2016 (SCI-Expanded)

- DCLXXVI. **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.
JOURNAL OF INSTRUMENTATION, cilt.11, 2016 (SCI-Expanded)
- DCLXXVII. **Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root $s(\text{NN})=2.76$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2016, sa.1, ss.1-52, 2016 (SCI-Expanded)
- DCLXXVIII. **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.
PHYSICS LETTERS B, cilt.752, ss.221-246, 2016 (SCI-Expanded)
- DCLXXIX. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICAL REVIEW D, cilt.92, sa.11, 2015 (SCI-Expanded)
- DCLXXX. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root $s=13$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.751, ss.143-163, 2015 (SCI-Expanded)
- DCLXXXI. **Search for a light charged Higgs boson decaying to $c(\bar{s})$ 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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- DCLXXXII. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, cilt.750, ss.494-519, 2015 (SCI-Expanded)
- DCLXXXIII. **Study of W boson production in pPb collisions at root $(\text{NN})-N-S=5.02$ TeV**
Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., Hartl C., Hoermann N., Hrubec J., et al.
PHYSICS LETTERS B, cilt.750, ss.565-586, 2015 (SCI-Expanded)
- DCLXXXIV. **Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.11, ss.1-42, 2015 (SCI-Expanded)
- DCLXXXV. **Angular coefficients of Z bosons produced in pp collisions at root $S=8$ TeV and decaying to $\mu(+)\mu(-)$ as a function of transverse momentum and rapidity**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, cilt.750, ss.154-175, 2015 (SCI-Expanded)
- DCLXXXVI. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.11, ss.1-43, 2015 (SCI-Expanded)
- DCLXXXVII. **Measurement of the differential cross section for top quark pair production in pp 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.11, 2015 (SCI-Expanded)

.LXXXVIII. **Search for a charged Higgs 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., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.11, ss.1-64, 2015 (SCI-Expanded)

CLXXXIX. **Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential 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., Friedl M., Fruehwirth R., Ghete V. M., et al.

PHYSICS LETTERS B, cilt.749, ss.14-34, 2015 (SCI-Expanded)

DCXC. **Search for supersymmetry with photons in pp collisions at root s=8 TeV**

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

PHYSICAL REVIEW D, cilt.92, sa.7, 2015 (SCI-Expanded)

DCXCI. **Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.10, ss.1-52, 2015 (SCI-Expanded)

DCXCII. **Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 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.

PHYSICS LETTERS B, cilt.749, ss.560-582, 2015 (SCI-Expanded)

DCXCIII. **Measurements of the ZZ production cross sections in the 2l2 nu channel in proton-proton collisions at root s=7 and 8 TeV and combined constraints on triple gauge couplings**

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

EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.10, 2015 (SCI-Expanded)

DCXCIV. **Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton 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.749, ss.187-209, 2015 (SCI-Expanded)

DCXCV. **Search for lepton flavour violating decays of the Higgs boson**

Vardan K., Erhan G., Ozlem K., kerem c., KAYA M.

Physics Letters B, cilt.749, ss.337-362, 2015 (SCI-Expanded)

DCXCVI. **Limits on the Higgs boson lifetime and width from its decay to four charged leptons**

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

PHYSICAL REVIEW D, cilt.92, sa.7, 2015 (SCI-Expanded)

DCXCVII. **Comparison of the Z/gamma* plus jets to gamma plus jets cross sections in pp collisions at root s=8 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.10, ss.1-46, 2015 (SCI-Expanded)

DCXCVIII. **Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at root s=2.76 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.9, 2015 (SCI-Expanded)

DCXCIX. **Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $l^{+}l^{-}b\bar{b}$ final states**

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.748, ss.221-243, 2015 (SCI-Expanded)

DCC. **Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}=8$ TeV decaying to a Z and a Higgs boson**

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

PHYSICS LETTERS B, cilt.748, ss.255-277, 2015 (SCI-Expanded)

DCCI. **Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions**

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

PHYSICAL REVIEW C, cilt.92, sa.3, 2015 (SCI-Expanded)

DCCII. **Search for neutral color-octet weak-triplet scalar particles 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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.9, 2015 (SCI-Expanded)

DCCIII. **Search for heavy Majorana neutrinos in $\mu^{+/-}\mu^{+/-} + \text{jets}$ events in proton-proton collisions at $\sqrt{s}=8$ TeV**

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

PHYSICS LETTERS B, cilt.748, ss.144-166, 2015 (SCI-Expanded)

DCCIV. **Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV**

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

Journal of Instrumentation, cilt.10, sa.8, 2015 (SCI-Expanded)

DCCV. **Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$**

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

PHYSICAL REVIEW D, cilt.92, sa.3, 2015 (SCI-Expanded)

DCCVI. **Search for third-generation scalar leptoquarks in the t tau channel 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.

JOURNAL OF HIGH ENERGY PHYSICS, cilt.2015, sa.7, 2015 (SCI-Expanded)

DCCVII. **Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV**

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

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- DCCXV. **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**
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- DCCXXXIX. **Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV**
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DCCXLII. Measurement of the ratio of the production cross sections times branching fractions of B-c(+/-) -> J/psi pi(+/-) and B-+/- -> J/psi K-+/- and B(B-c(+/-) -> J/psi pi(+/-)pi(+/-)pi(-/+))/B(B-c(+/-) -> J/psi pi(+/-)) in pp collisions at root s=7 TeV

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DCCXLIV. Study of Z production in PbPb and pp collisions at root s(NN)=2.76 TeV in the dimuon and dielectron decay channels

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DCCXLV. Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at root s=8 TeV

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DCCXLVI. Search for new resonances decaying via WZ to leptons in proton-proton collisions at root s=8 TeV

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DCCXLVII. 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

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DCCXLVIII. 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

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DCCXLIX. Measurement of Prompt psi(2S) to J/psi. Yield Ratios in Pb-Pb and p-p Collisions at root sNN=2.76 TeV

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- DCCLII. **Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**
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- DCCLIII. **Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV**
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- DCCLIV. **Observation of the diphoton decay of the Higgs boson and measurement of its properties**
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- DCCLV. **Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at root s=8 TeV by the CMS and TOTEM experiments**
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- DCCLVI. **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**
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- DCCLVII. **Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**
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- DCCLVIII. **Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root s=8 TeV**
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- DCCLXIII. **Measurement of the muon charge asymmetry in inclusive $pp \rightarrow w+X$ production at $s = 7\text{TeV}$ and an improved determination of light parton distribution functions**
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- DCCLXIV. **Measurement of jet multiplicity distributions in $t(\bar{t})$ production in pp collisions at root $s=7\text{TeV}$**
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- DCCLXV. **Search for anomalous production of events with three or more leptons in pp collisions at root $s=8\text{TeV}$**
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- DCCLXVI. **Measurement of WZ and ZZ production in pp collisions at in final states with b-tagged jets**
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- DCCLXVIII. **Search for jet extinction in the inclusive jet- $p(T)$ spectrum from proton-proton collisions at root $s=8\text{TeV}$**
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- DCCLXIX. **Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at root $s=8\text{TeV}$**
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- DCCLXX. **Measurement of jet fragmentation in PbPb and pp collisions at root $s(NN)=2.76\text{TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCLXXI. **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.
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- DCCLXXII. **Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at root $s(NN)=5.02\text{TeV}$**
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- 1CCLXXIV. **Study of the production of charged pions, kaons, and protons in pPb collisions at root SNN=5.02 TeV**
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- CMLVI. Measurement of jet fragmentation into charged particles in pp and PbPb collisions at root s(NN)=2.76 TeV**
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- CMLVII. Measurement of the mass difference between top and antitop quarks**
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- CMLIX. Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV**
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collisions at root s=7TeV

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

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CMLXVI. Measurement of the underlying event activity at the LHC with root s=7 TeV and comparison with root s=0.9 TeV

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CMLXIX. Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment

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CMLXX. Measurement of the $t(\bar{t})$ production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification

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MXXVIII. Charged particle multiplicities in pp interactions at $\sqrt{s}=0.9, 2.36,$ and 7 TeV

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