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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

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

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### Akademik Unvanlar / Görevler

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

Prof. Dr., Kafkas Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2014

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## AKADEMİK İDARI DENEYİM

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## Verdiği Dersler

Temel Parçacıklar, Lisans, 2021 - 2022  
Yüksek Enerji Fiziği, Yüksek Lisans, 2021 - 2022, 2019 - 2020  
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## Jüri Üyelikleri

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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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### **XXXII. Observation of B-s(0) mesons and measurement of the B-s(0)/B+ yield ratio in PbPb collisions at root S-NN=5.02 TeV**

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### **XXXV. Search for charged-lepton flavor violation in top quark production and decay in pp collisions at $\sqrt{s} = 13$ TeV**

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- XLV. **Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at  $\sqrt{s} = 13$  TeV**  
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- XLVI. **Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at  $\sqrt{s}=13$ TeV**  
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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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- XLVIII. **Measurement of the inclusive  $t(\bar{t})$  production cross section in proton-proton collisions at root s=5.02 TeV**  
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- L. **Search for long-lived particles decaying into muon pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV collected with a dedicated high-rate data stream**  
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- LII. **Search for electroweak production of charginos and neutralinos in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
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- LIV. **Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions**  
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- LVI. **A new calibration method for charm jet identification validated with proton-proton collision events at  $\sqrt{s} = 13$  TeV**  
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- LVII. **Search for long-lived particles produced in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
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- LX. **Measurement of  $W \pm \gamma$  differential cross sections in proton-proton collisions at  $s = 13$  TeV and effective field theory constraints**  
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- LXI. **Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of  $\tau$  Leptons in pp Collisions at  $s = 13$  TeV**  
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- LXII. **Fragmentation of jets containing a prompt J/psi meson in PbPb and pp collisions at  $\sqrt{s} = 5.02$  TeV**  
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- LXV. **Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
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- LXVI. **Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
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- LXVIII. **Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at  $\sqrt{s_{NN}} = 5.02$  TeV**  
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- LXIX. **Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions**  
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- LXX. **Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV**  
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- LXXI. **Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**  
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- LXXII. **Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at  $\sqrt{s}=13$  TeV**  
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- LXXIII. **Probing effective field theory operators in the associated production of top quarks with a Z boson**

**in multilepton final states at root  $s=13$  TeV**

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**LXXIV. Search for a heavy resonance decaying to a top quark and a W boson at root  $s=13$  TeV in the fully hadronic final state**

Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., Lechner L., et al.

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**LXXV. Measurement of the inclusive and differential  $t(\bar{t})$  over-bar gamma cross sections in the single-lepton channel and EFT interpretation at root  $s=13$  TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

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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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**LXXVII. Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at  $\sqrt{s}=13$  TeV**

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**LXXVIII. Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at root  $s=5.02$  TeV Using Leptonic Decays**

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**LXXIX. Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at root  $s=13$  TeV**

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**LXXX. Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the tau tau bb final state at 13 TeV**

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**LXXXI. Observation of  $tW$  production in the single-lepton channel in pp collisions at root  $s=13$  TeV**

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**LXXXII. Measurement of differential  $t(\bar{t})$  over-bar production cross sections in the full kinematic range using lepton plus jets events from proton-proton collisions at root  $s=13$  TeV**

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**LXXXIII. Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb<sup>-1</sup> of proton-proton collisions at root  $s=13$  TeV**

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- LXXXIV. **Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 13 TeV**  
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- LXXXV. **Measurements of the  $pp \rightarrow W^{+/-} \gamma \gamma$  and  $pp \rightarrow Z \gamma \gamma$  cross sections at root  $s=13$  TeV and limits on anomalous quartic gauge couplings**  
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- LXXXVI. **Measurement of the electroweak production of Z gamma and two jets in proton-proton collisions at root  $s=13$  TeV and constraints on anomalous quartic gauge couplings**  
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- LXXXVII. **Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at root  $s=13$  TeV**  
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- LXXXVIII. **Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at root  $S_{NN}=5.02$  TeV**  
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- 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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- XC. **Search for top squark production in fully hadronic final states in proton-proton collisions at root  $s=13$  TeV**  
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- XCI. **First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at root  $s=13$  TeV**  
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- XCII. **Precision luminosity measurement in proton-proton collisions at  $\sqrt{s}=13$  TeV in 2015 and 2016 at CMS**  
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- XCIII. **Search for  $W'$  bosons decaying to a top and a bottom quark at root  $s=13$  TeV in the hadronic final state**  
 Sirunyan A. M., Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

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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**

Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.

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**XCVI. Measurement of the azimuthal anisotropy of Y(1S) and Y(2S) mesons in PbPb collisions at root s(NN)=5.02 TeV**

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

PHYSICS LETTERS B, cilt.819, 2021 (SCI-Expanded)

**XCVII. Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.

PHYSICS LETTERS B, cilt.819, 2021 (SCI-Expanded)

**XCVIII. Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.

PHYSICS LETTERS B, cilt.819, 2021 (SCI-Expanded)

**XCVIII. Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**

Sirunyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.

European Physical Journal C, cilt.81, sa.8, 2021 (SCI-Expanded)

**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**

Sirunyan A. M., Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, cilt.104, sa.3, 2021 (SCI-Expanded)

**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**

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

PHYSICAL REVIEW LETTERS, cilt.127, sa.10, 2021 (SCI-Expanded)

**CI. Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**

Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.

European Physical Journal C, cilt.81, sa.8, 2021 (SCI-Expanded)

**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**

Sirunyan A. M., Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.

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**CIII. Hard color-singlet exchange in dijet events 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., Frühwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, cilt.104, sa.3, 2021 (SCI-Expanded)

**CIV. Performance of the CMS muon trigger system in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., Lechner L., et al.

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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**  
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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- CVII. **MUSiC: a model-unspecific search for new physics in proton-proton collisions at  $\sqrt{s}=13$ 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.  
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- CVIII. **Search for resonant and nonresonant new phenomena in high-mass dilepton final states at root  $s=13$  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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- CX. **Measurement of the W gamma Production Cross Section in Proton-Proton Collisions at root  $s=13$  TeV and Constraints on Effective Field Theory Coefficients**  
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- 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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- CXIII. **Measurement of b jet shapes in proton-proton collisions at root  $s=5.02$  TeV**  
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- CXIV. **Measurement of the CP-violating phase  $\phi(s)$  in the  $B-s(0) \rightarrow J/\psi \phi(1020) \rightarrow \mu(+)\mu-K+K$ -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**  
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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**  
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- CXVII. **Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC**  
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- 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**  
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- CXIX. **In-medium modification of dijets in PbPb collisions at root s(NN)=5.02 TeV**  
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- CXX. **First measurement of large area jet transverse momentum spectra in heavy-ion collisions**  
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- CXXI. **Angular analysis of the decay  $B^{+-} \rightarrow K^{*}(892)(+)\mu^{+}\mu^{-}$  in proton-proton collisions at root s=8 TeV**  
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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**  
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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**  
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- CXXIV. **Development and validation of HERWIG 7 tunes from CMS underlying-event measurements**  
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- CXXV. **Construction and commissioning of CMS CE prototype silicon modules**  
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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**

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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**  
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- CXXIX. **Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at  $\sqrt{s}=13$  TeV**  
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- CXXX. **Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CXXXIV. **Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at  $\sqrt{s(NN)}=8.16$  TeV**  
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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**  
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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**

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JOURNAL OF HIGH ENERGY PHYSICS, cilt.2021, sa.1, 2021 (SCI-Expanded)

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.

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

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

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., Ambrogio 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., Ambrogio 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., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.  
PHYSICS LETTERS B, cilt.808, 2020 (SCI-Expanded)
- 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., Ambrogio 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., Ambrogio 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., Ambrogio 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., Ambrogio 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., Ambrogio 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., Ambrogio 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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.6, 2020 (SCI-Expanded)
- 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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.5, 2020 (SCI-Expanded)
- CLXXXVII. **Calibration of the CMS hadron calorimeters using proton-proton collision data 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 INSTRUMENTATION, cilt.15, sa.5, 2020 (SCI-Expanded)
- :LXXXVIII. **Search for high mass dijet resonances with a new background prediction method 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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- 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**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.  
PHYSICAL REVIEW LETTERS, cilt.124, sa.20, 2020 (SCI-Expanded)
- 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  $\sqrt{s}=13\text{TeV}$**   
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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- 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**  
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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- CXCVI. **Constraints on the  $\chi(c1)$  versus  $\chi(c2)$  Polarizations in Proton-Proton Collisions at  $\sqrt{s}=8\text{TeV}$**   
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.  
PHYSICAL REVIEW LETTERS, cilt.124, sa.16, 2020 (SCI-Expanded)
- 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.  
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- CXCVIII. **Production of  $\Lambda(+)(c)$  baryons in proton-proton and lead-lead collisions at  $\sqrt{S\text{-NN}}=5.02\text{TeV}$**   
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.  
PHYSICS LETTERS B, cilt.803, 2020 (SCI-Expanded)
- 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.  
PHYSICAL REVIEW LETTERS, cilt.124, sa.13, 2020 (SCI-Expanded)
- CC. **Bose-Einstein correlations of charged hadrons 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., Eroo J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- CCI. **Search for direct pair production of supersymmetric partners to the  $\tau$  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.  
European Physical Journal C, cilt.80, sa.3, 2020 (SCI-Expanded)
- 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.

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

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.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.3, 2020 (SCI-Expanded)
- 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., Eroe J., Del Valle A. E., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.2, 2020 (SCI-Expanded)
- 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.  
European Physical Journal C, cilt.80, sa.2, 2020 (SCI-Expanded)
- CCXV. **Performance of the reconstruction and identification of high-momentum muons 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 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., Eroe J., Del Valle A. E., Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, cilt.2020, sa.2, 2020 (SCI-Expanded)
- 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., Eroe 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., Eroe 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 d=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.  
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., Eroe 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., Eroe 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**  
KAYA M., Tabak A.  
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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**  
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.  
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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  $B^+ \rightarrow J/\psi(\Lambda)\text{over-bar}p$  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., Erö 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  $J/\psi$  or  $\Upsilon$  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  $h\gamma\gamma$  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., TEK TEN 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., TEK TEN 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  $flVVtb$  determinations at  $\sqrt{s}=7$  and 8 TeV with the ATLAS and CMS experiments**  
 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)
- :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., TEK TEN 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  $b(\bar{b})\overline{b}(\bar{b})$  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  $\sqrt{s}=13\sqrt{s}=13 \text{ TeV}$  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  $\sqrt{s} = 13 \sqrt{s}=13 \text{ TeV}$**   
 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  $\sqrt{s}=13 \text{ TeV}$**   
 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.  
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- 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**  
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- 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.  
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- 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.  
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- CCCVI. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**  
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- 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**  
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- 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**  
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- CCCIX. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root s=13 TeV**  
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- CCCX. **Search for pair production of first-generation scalar leptoquarks at root s=13 TeV**  
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- 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**  
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- CCCXII. **Measurement of prompt  $\psi(2S)$  production cross sections in proton-lead and proton-proton collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
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- 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  $\gamma$  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/ $\psi$  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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- CCCXXIV. **Fragmentation of J/psi in jets in pp collisions at root s=5.02 TeV Batoul Diab for the CMS collaboration**  
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- CCCXXV. **CMS Collaboration**  
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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 /  $\psi$  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.

PHYSICS LETTERS B, cilt.789, ss.19-44, 2019 (SCI-Expanded)

- 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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- CCCXXXVI. **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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- CCCXXXVII. **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**  
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- CCCXXXVIII. **Search for pair-produced three-jet resonances in proton-proton collisions at root  $s=13$  TeV**  
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- CCCXXXIX. **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  $\sqrt{s}=13$  TeV**  
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- CCCXLIII. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root  $s=13$  TeV**  
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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**  
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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**  
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- CCCXLIX. **Event shape variables measured using multijet final states in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CCCL. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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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**  
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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**  
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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  $\text{pp}$  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.  
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- 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  $\sqrt{s}=13\text{TeV}$**   
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- CCCLX. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
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- CCCLXI. **Measurement of the top quark mass with lepton+jets final states using  $\text{pp}$  collisions at  $\sqrt{s}=13\text{TeV}$**   
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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.  
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- 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  $13\text{TeV}$**   
 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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- CCCLXV. **Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
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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**  
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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**  
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- :CCLXVIII. **Studies of  $B_s(5840)0$  and  $B_s(5830)0$  mesons including the observation of  $\sqrt{s}=8\text{TeV}$**   
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- :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**  
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- :CLXXXIII. **Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
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M., Eroe J., et al.

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

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

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

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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.

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

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CCCXCIV. **title Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at  $\sqrt{s}=13$  TeV**

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

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CCCXCVI. **Search for narrow and broad dijet resonances in proton-proton collisions at  $s=13$   $\sqrt{s}=13$  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 E. A., YETKİN T., et al.

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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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe 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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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

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.

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

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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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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CDIV. **Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at  $\sqrt{s}=13$  TeV**

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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., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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

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- CDVII. **Measurement of angular parameters from the decay  $B^0 \rightarrow K^{*0} \mu^{+} \mu^{-}$  in proton-proton collisions at  $\sqrt{s}=8$  TeV**  
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- 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**  
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- 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.  
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- CDXI. **Search for high-mass resonances in dilepton final states in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CDXII. **Search for high-mass resonances in final states with a lepton and missing transverse momentum at  $\sqrt{s}=13$  TeV**  
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- 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.  
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- CDXIV. **Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV**  
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- 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.  
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- 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.  
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- CDXVII. **Search for excited quarks of light and heavy flavor in gamma 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.  
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- CDXVIII. **Measurement of b hadron lifetimes in pp collisions at  $\sqrt{s}=8\text{TeV}$**   
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- 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.  
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- CDXX. **Observation of  $(t\bar{t})\text{over-bar}H$  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**  
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- 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.  
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- CDXXIII. **Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV**  
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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.  
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- 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**  
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- 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**  
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- CDXXXI. **Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at root s=13 TeV**  
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- 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**  
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- 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**  
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- CDXXXIV. **Jet properties in PbPb and pp collisions at root S-NN=5.02 TeV**  
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- CDXXXVI. **Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at root s=8 TeV**  
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- CDXXXVII. **Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at root s=13 TeV**  
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- CDXXXIX. **Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root s=13 TeV**  
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- 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**  
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- CDXLI. **Search for pair production of vector-like quarks in the  $b\bar{b}W$  channel from proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CDXLV. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**  
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- CDXLVI. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root s=13 TeV**  
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- CDXLVII. **Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e mu final states in proton-proton collisions at root s=13 TeV**  
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- CDXLVIII. **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root s(NN)=5.02 TeV**  
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- CDXLIX. **Search for vectorlike light-flavor quark partners in proton-proton collisions at root s=8 TeV**  
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- CDL. **Measurement of normalized differential  $t(\bar{t})$  over-bar cross sections in the dilepton channel from pp collisions at  $\sqrt{s}=13$  TeV**  
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- CDLI. **Measurement of the Splitting Function in  $t\bar{t}$  and Pb-Pb Collisions at  $\sqrt{s}=5.02$  TeV**  
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- CDLII. **Measurement of the associated production of a single top quark and a Z boson in pp collisions at,  $\sqrt{s}=13$  TeV**  
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- CDLIII. **Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CDLIV. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CDLV. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s}=13$  TeV**  
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- CDLVI. **Search for ZZ resonances in the  $2l2\nu$  final state in proton-proton collisions at 13 TeV**  
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- CDLVII. **Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CDLVIII. **Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- CDLIX. **Measurement of the inclusive  $t(\bar{t})$  over-bar cross section in pp collisions  $\sqrt{s}=5.02$  TeV using final states with at least one charged lepton**  
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- CDLX. **Measurement of differential cross sections in the kinematic angular variable  $\phi^*$  for inclusive Z boson production in pp collisions at  $\sqrt{s}=8$  TeV**

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- CDLXI. **Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at root s=13 TeV**  
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- CDLXII. **Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at root s=8 TeV**  
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- CDLXIII. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**  
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- CDLXIV. **Search for pair production of excited top quarks in the lepton plus jets final state The CMS Collaboration**  
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- CDLXV. **Search for top squarks and dark matter particles in opposite-charge dilepton final states at root s=13 TeV**  
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- CDLXVI. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**  
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- CDLXVII. **Constraintson the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root s=8TeV**  
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- CDLXVIII. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**  
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- CDLXX. **Measurements of the  $p p \rightarrow Z Z$  production cross section and the  $Z \rightarrow 4 \ell$  branching fraction, and constraints on anomalous triple gauge couplings at  $\sqrt{s}=13\text{TeV}$**   
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- CDLXXII. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**  
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- CDLXXIII. **Search for Higgsino pair production in pp collisions at root s=13 TeV in final states with large missing transverse momentum and two Higgs bosons decaying via  $H \rightarrow b\bar{b}$**   
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- CDLXXIV. **Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV**  
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- CDLXXIX. **Search for resonant and nonresonant Higgs boson pair production in the  $b\bar{b}l\nu l\nu$  final state in proton-proton collisions at root s=13 TeV**  
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- CDLXXX. **Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks**  
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- CDLXXXI. **Search for  $t\bar{t}H$  production in the all-jet final state in proton-proton collisions root s=13 TeV**  
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- CDLXXXII. **Observation of Top Quark Production in Proton-Nucleus Collisions**  
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- DLXXXIV. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root s=13 TeV**  
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- CDLXXXV. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV**  
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- DLXXXVI. **Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root s=13 TeV**  
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- DLXXXVII. **Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS**  
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.  
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- DLXXXVIII. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$**   
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- DLXXXIX. **Measurement of charged pion, kaon, and proton production in proton-proton collisions at root s=13 TeV**  
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- CDXCII. **Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at root s=13 TeV**



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- CDXCIII. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root  $s=13$  TeV**  
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- 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  $s=8\text{TeV}$**   
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- 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**  
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- DXLV. **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at  $13\text{TeV}$**

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**DXLVI. Search for dijet resonances in proton-proton collisions at  $\sqrt{s}=13$  TeV and constraints on dark matter and other models**

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

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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**

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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.  
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**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**

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

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

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

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DLXVIII. **Measurements of differential cross sections for associated production of a W boson and jets 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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- 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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- 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**  
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- DCI. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 TeV**  
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- DCVI. **Search for R-parity violating decays of a top squark in proton-proton collisions at root s=8TeV**  
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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**  
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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**  
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- DCXV. **Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at root s=7 TeV**  
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- DCXIX. **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at root s=13TeV**  
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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**  
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- 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**  
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- DCXXIII. **Combined search for anomalous pseudoscalar HW couplings in  $VH(H \rightarrow b\bar{b})$  production and  $H \rightarrow VV$  decay**  
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- DCXXIV. **Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons**  
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- DCXXV. **Measurement of the differential cross section and charge asymmetry for inclusive  $pp \rightarrow W^{+/-} + X$  production at  $\sqrt{s} = 8$  TeV**  
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- DCXXVI. **Study of Z boson production in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**  
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- DCXXVII. **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at  $\sqrt{s} = 8$  TeV**  
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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**  
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- DCXXIX. **Measurement of inclusive jet production and nuclear modifications in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV**  
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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**  
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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**  
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- DCXXXII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**  
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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**  
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- 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**  
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- DCXXXV. **Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV**  
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- DCXXXVI. **Measurement of the W+W- cross section in pp collisions at root s=8 TeV and limits on anomalous gauge couplings**  
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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**  
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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**  
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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**  
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al  
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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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- 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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- DCLIX. **Transverse momentum spectra of inclusive b jets in pPb collisions atv root s(NN)=5.02 TeV**  
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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**  
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- DCLXIX. **Search for a Higgs boson decaying into  $\gamma^*\gamma \rightarrow ll$  with low dilepton mass in pp collisions at root s=8 TeV**  
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- DCLXX. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**  
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- 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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- DCLXXII. **Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays**  
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- DCLXXIII. **Search for resonant  $t(\bar{t})$  production in proton-proton collisions at root s=8 TeV**  
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- 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**  
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- DCLXXV. **Observation of top quark pairs produced in association with a vector boson in pp collisions at root s=8 TeV**  
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- DCLXXVI. **Reconstruction and identification of tau lepton decays to hadrons and  $\nu(\tau)$  at CMS**  
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- DCLXXVII. **Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root  $s(\text{NN})=2.76$  TeV**  
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- DCLXXVIII. **Search for neutral MSSM Higgs bosons decaying to  $\mu(+)\mu(-)$  in pp collisions at root  $s=7$  and 8 TeV**  
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- DCLXXIX. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root  $s=8$  TeV**  
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- DCLXXX. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root  $s=13$ TeV**  
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- DCLXXXI. **Search for a light charged Higgs boson decaying to  $c(\bar{s})$  in pp collisions at root  $s=8$  TeV**  
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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**  
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- DCLXXXIII. **Study of W boson production in pPb collisions at root  $(\text{NN})-N-S=5.02$  TeV**  
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- DCLXXXIV. **Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root  $s=8$ TeV**  
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- 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**  
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- DCLXXXVI. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**  
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- DCLXXXVII. **Measurement of the differential cross section for top quark pair production in pp collisions at root**

**s=8TeV**

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CLXXXIX. **Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential cross sections in pp collisions at root s=7 TeV**

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DCXCII. **Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8TeV**

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

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

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

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- DCCXII. **Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at  $\sqrt{s}=8$  TeV**  
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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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- DCCXXXVII. **Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters**  
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Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.

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

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

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

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

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

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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**

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

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

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**root s=7 TeV**

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- DCCCXXVI. **Measurement of the  $W^+W^-$  cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**

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**Pb-Pb Collisions at  $\sqrt{s(NN)}=2.76$  TeV**

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**CMXXI. Search for a  $W^+$  or Techni-rho Decaying into  $WZ$  in pp Collisions at  $\sqrt{s}=7$  TeV**

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

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**CMXXV. Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at  $\sqrt{s}=7$  TeV**

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

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**CMXXVI. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at  $\sqrt{s}=7$  TeV**

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**CMXXVII. Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at  $\sqrt{s}=7$  TeV**

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- CMXXXI. **Measurement of the  $\Lambda(b)$  cross section and the  $\Lambda(b)$  to  $\Lambda(b)$  ratio with J/psi  $\Lambda(b)$  decays in pp collisions at root s=7 TeV CMS Collaboration**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
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- CMXXXV. **Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root S-NN=2.76 TeV**  
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.  
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- CMXLIV. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**  
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**CMLXV. Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV**

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CMXCVII. **Search for Supersymmetry in pp Collisions at root s=7 TeV in Events with Two Photons and Missing Transverse Energy**

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CMXCVIII. **Measurement of W+W- production and search for the Higgs boson in pp collisions at root s=7 TeV**

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CMXCIX. **Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at root s=7 TeV**

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M. **Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at root s=7 TeV**

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MI. **Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**

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MII. **Prompt and non-prompt J/psi production in pp collisions at root s=7 TeV**

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MIII. **Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at root s=7 TeV**

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MIV. **Search for microscopic black hole signatures at the Large Hadron Collider**

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MV. **Measurement of the B+ Production Cross Section in pp Collisions at root s=7 TeV**

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

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MVI. **Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV**

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

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MVII. **Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at root s=7 TeV**

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- MVIII. **Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at root s=7 TeV**  
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- MIX. **Measurement of the Drell-Yan cross section in pp collisions at root s=7 TeV**  
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- MX. **Search for light resonances decaying into pairs of muons as a signal of new physics**  
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- MXV. **Charged particle transverse momentum spectra in pp collisions at root s=0.9 and 7 TeV**  
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