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Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Türkiye 1996 - 2001

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

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Araştırma Alanları

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- I. **Searches for Pair-Produced Multijet Resonances Using Data Scouting in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- IV. **Using graph neural networks to reconstruct charged pion showers in the CMS High Granularity Calorimeter**
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- V. **Measurement of the polarizations of prompt and non-prompt $[F_{\text{Formula presented}}]$ and $\psi(2S)$ mesons produced in pp collisions at $\sqrt{s}=13$ TeV**
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- VI. **Observation of double $[F_{\text{Formula presented}}]$ meson production in $[F_{\text{Formula presented}}]$ collisions at $[F_{\text{Formula presented}}]$**
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VII. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**

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VIII. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at $\sqrt{s}=13$ TeV**

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X. **Measurement of differential ZZ + jets production cross sections in pp collisions at $s = 13$ TeV**

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XIII. **Search for production of a single vectorlike quark decaying to tH or tZ in the all-hadronic final state in pp collisions at [Formula presented]**

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XVI. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**

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XVIII. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$**

TeV using leptonic W boson decays

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- XIX. **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV**
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- XX. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
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- XXI. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13$ TeV**
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- XXII. **Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
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- XXIII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13$ TeV**
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- XXIV. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
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- XXV. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
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- XXVII. **Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**
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- XXVIII. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
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- XXIX. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13$ TeV**

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- XXX. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
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- XXXI. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
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- XXXII. **Search for ZZ and ZH production in the $bb\bar{b}\bar{b}$ final state using proton-proton collisions at $s=13\text{TeV}$**
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- XXXIII. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXXIV. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark $ff\bar{f}\bar{f}$ pair in multilepton events at $\sqrt{s}=13\text{ TeV}$**
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- XXXV. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
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- XXXVI. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
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- XXXVII. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXXVIII. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
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- XXXIX. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**
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- XL. Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**
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- XLII. Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
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- XLIII. Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
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- XLIV. Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**
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- XLV. Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$**
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- XLVI. Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6 \text{ TeV}$**
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- XLVII. Search for W' bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at $s = 13 \text{ TeV}$**
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- XLVIII. Development of the CMS detector for the CERN LHC Run 3**
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- XLIX. Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu b\bar{b}$ and $\tau\tau b\bar{b}$ final states**
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- L. Measurement of simplified template cross sections of the Higgs boson produced in association with w or z bosons in the Formula Presented decay channel in proton-proton collisions at Formula Presented**
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- L. Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13 \text{ TeV}$**

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- LI. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13$ TeV**
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- LII. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at (Formula presented.)**
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- LIII. **Timing performance of the CMS High Granularity Calorimeter prototype**
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- LIV. **Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at Formula Presented**
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- LV. **Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at Formula Presented**
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- LVI. **Observation of $WW\gamma$ Production and Search for $H\gamma$ Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- LVII. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**
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- LVIII. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ TeV**
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- LX. **Search for dark matter particles in $W+W^-$ events with transverse momentum imbalance in proton-proton collisions at $s = 13$ TeV**
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LXXXIII. Luminosity determination using Z boson production at the CMS experiment

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

POLATÖZ A., KAYIŞ TOPAKSU A., DUMANOĞLU İ., Collaboration C.

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LXXXV. Search for electroweak production of charginos in final states with two T leptons in pp collisions at root $s=8$ TeV

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

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

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LXXXVII. Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at root $s=8$ TeV

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LXXXVIII. Charged-particle nuclear modification factors in PbPb and pPb collisions at root $s(NN)=5.02$ TeV

SIRUNYAN A. M., Tumasyan A., Wolfgang A., Ece A., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., Collaboration C.

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LXXXIX. Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at root $(S)(NN)=5.02$ TeV

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

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

Khachatryan V., Tumasyan A., SIRUNYAN A. M., Wolfgang A., Asiler E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.

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LXXXII. Phenomenological MSSM interpretation of CMS searches in pp collisions at root $s=7$ and 8 TeV

Chatrchyan S., Khachtryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brandstetter J., DUMANOĞLU İ., EŞKUT E., et al.

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LXXXIII. Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter

Khachatryan V., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haeevermaet H., Van Mechelen P., Van Spilbeeck A., et al.

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LXXXIV. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root S = 8 TeV**

Khachatryan V., Albert S., Tumasyan A., Wolfgang A., Ece A., Bergauer T., Brandstetter J., Brondolin E., DUMANOĞLU İ., POLATÖZ A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, ss.1-20, 2016 (SCI-Expanded)

LXXXV. **Measurements of $t(\bar{t})$ charge asymmetry using dilepton final states in pp collisions at root s=8 TeV**

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

PHYSICS LETTERS B, cilt.760, ss.365-386, 2016 (SCI-Expanded)

LXXXVI. **Search for a low-mass pseudoscalar Higgs boson produced in association with a $b(\bar{b})$ pair in pp collisions at root s=8 TeV**

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LXXXVII. **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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LXXXVIII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=8 TeV**

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EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.6, 2016 (SCI-Expanded)

LXXXIX. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in pp collisions at root s=8 TeV**

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XC. **Measurement of the ratio $B(B\text{-}s(0) \rightarrow J/\psi f(0)(980))/B(B\text{-}s(0) \rightarrow J/\psi \phi(1020))$ in pp collisions at root s=7 TeV**

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

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XCI. **Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV**

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XCII. **Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables**

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

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XCIII. **Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at root s = 8 (vol 10, 128, 2015)**

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XCIV. **Search for massive WH resonances decaying into the $l \nu b(\bar{b})$ final state at root s=8 TeV**

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Dragicevic M., Eroe J., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.76, sa.5, 2016 (SCI-Expanded)

- XCV. **Search for new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, cilt.755, ss.102-124, 2016 (SCI-Expanded)
- XCVI. **Search for $W^- \rightarrow tb$ in proton-proton collisions at root s=8 TeV**
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- XCVII. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root s=8TeV**
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- XCVIII. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**
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- XCIX. **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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- C. **Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential cross sections in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
PHYSICS LETTERS B, cilt.749, ss.14-34, 2015 (SCI-Expanded)
- CI. **Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at root s=8TeV**
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JOURNAL OF INSTRUMENTATION, cilt.10, 2015 (SCI-Expanded)
- CII. **Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.
EUROPEAN PHYSICAL JOURNAL C, cilt.75, sa.5, ss.1-50, 2015 (SCI-Expanded)
- CIII. **Measurement of the Z gamma production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings**
Khachtryan V., Sirunyan A., Tumasyan A., Wolfgang A., Bergauer T., Dragicevic M., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A.
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- CIV. **Search for Monotop Signatures in Proton-Proton Collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, cilt.114, sa.10, 2015 (SCI-Expanded)
- CV. **Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV**
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- CVI. **Measurement of differential cross sections for the production of a pair of isolated photons in pp**

collisions at root $s=7\text{TeV}$

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

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.11, 2014 (SCI-Expanded)

CVII. Observation of the diphoton decay of the Higgs boson and measurement of its properties

EŞKUT E., KAYIŞ TOPAKSU A., POLATÖZ A., DUMANOĞLU İ.

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.10, ss.1-49, 2014 (SCI-Expanded)

CVIII. Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.9, 2014 (SCI-Expanded)

CIX. Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root $s=8\text{ TeV}$

DUMANOĞLU İ., EŞKUT E., Öngüt G., POLATÖZ A., KAYIŞ TOPAKSU A.

EUROPEAN PHYSICAL JOURNAL C, cilt.74, sa.9, ss.1-26, 2014 (SCI-Expanded)

CX. Searches for light- and heavy-flavour three-jet resonances in pp collisions at root $s=8\text{ TeV}$

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

PHYSICS LETTERS B, cilt.730, ss.193-214, 2014 (SCI-Expanded)

CXI. Modification of jet shapes in PbPb collisions at root $s(\text{NN})=2.76\text{ TeV}$

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

PHYSICS LETTERS B, cilt.730, ss.243-263, 2014 (SCI-Expanded)

CXII. Measurement of the $t(\bar{t})$ production cross section in the dilepton channel in pp collisions at root $s = 8\text{ TeV}$ (vol 2, 024, 2014)

EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., ÖNENGÜT G., POLATÖZ A.

JOURNAL OF HIGH ENERGY PHYSICS, sa.2, ss.1-18, 2014 (SCI-Expanded)

CXIII. Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks

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

PHYSICAL REVIEW D, cilt.89, sa.1, 2014 (SCI-Expanded)

CXIV. Determination of the top-quark pole mass and strong coupling constant from the $t(\bar{t})$ production cross section in pp collisions at root $s=7\text{ TeV}$

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

PHYSICS LETTERS B, cilt.728, ss.496-517, 2014 (SCI-Expanded)

CXV. Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states

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

Journal of High Energy Physics, cilt.2014, sa.1, 2014 (SCI-Expanded)

CXVI. Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$

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

Journal of High Energy Physics, cilt.2014, sa.3, 2014 (SCI-Expanded)

CXVII. Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root $s=7\text{ TeV}$

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

- PHYSICAL REVIEW D, cilt.88, sa.11, 2013 (SCI-Expanded)
- CXVIII. **Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.727, ss.381-402, 2013 (SCI-Expanded)
- CXIX. **Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.73, sa.12, 2013 (SCI-Expanded)
- CXX. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.111, sa.22, 2013 (SCI-Expanded)
- CXXI. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.111, sa.21, 2013 (SCI-Expanded)
- CXXII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.727, ss.101-125, 2013 (SCI-Expanded)
- CXXIII. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.727, ss.57-76, 2013 (SCI-Expanded)
- CXXIV. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF INSTRUMENTATION, cilt.8, 2013 (SCI-Expanded)
- CXXV. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.726, ss.564-586, 2013 (SCI-Expanded)
- CXXVI. **Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2013 (SCI-Expanded)
- CXXVII. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CXXVIII. **Measurement of the W-boson helicity in top-quark decays from t(t)over-bar production in lepton plus jets events in pp collisions at root s=7 TeV**

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- CXXXIX. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**

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

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

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

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

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- CXXXII. **Interpretation of searches for supersymmetry with simplified models**

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- CXXXIII. **Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**

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

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- CXXXIV. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root s=7 TeV**

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

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

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- CXXXVI. **Measurement of masses in the t(t)over-tilde system by kinematic endpoints in pp collisions at root s=7 TeV**

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- CXXXVII. **search for new physics in events with same-sign dileptons and b jets in pp collisions at root s = 8 TeV**

EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., ÖNENGÜT G., POLATÖZ A.

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- CXXXVIII. **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**

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- CXXXIX. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**

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POLATÖZ A., DUMANOĞLU İ., EŞKUT E., KAYIŞ TOPAKSU A., Öngüt G.
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- CXLIII. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.722, ss.273-294, 2013 (SCI-Expanded)
- CXLIV. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CXLV. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**
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- CXLVI. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at root s=7 TeV**
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- CXLVII. **Search for contact interactions in mu(+)-mu(-) events in pp collisions at root s = 7 TeV**
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- CXLVIII. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CXLIX. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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- CL. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at root s 7 TeV**
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- CLI. **Search for a W^+ boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s}=7$ TeV**
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- CLII. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Collaboration C. M. S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CLIII. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.718, sa.3, ss.773-794, 2013 (SCI-Expanded)
- CLIV. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
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- CLV. **Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW D, cilt.87, sa.1, 2013 (SCI-Expanded)
- CLVI. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CLVII. **Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at $\sqrt{s}=7$ TeV**
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PHYSICAL REVIEW LETTERS, cilt.110, sa.2, 2013 (SCI-Expanded)
- CLVIII. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**
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- CLIX. **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- CLX. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**
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- CLXI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q(q)\overline{l^{+}}l^{-}$ final state**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.718, ss.1208-1228, 2013 (SCI-Expanded)
- CLXII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CLXIII. **Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.718, sa.2, ss.307-328, 2012 (SCI-Expanded)
- CLXIV. **Observation of Z decays to four leptons with the CMS detector at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- CLXV. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**
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- CLXVI. **Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s} \text{ NN} = 2.76 \text{ TeV}$**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Fried M., et al.
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- CLXVII. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive $e(+)e(-)$ production in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- CLXVIII. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**
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- CLXIX. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density 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., Eroe J., Fabjan C., Friedl M., et al.
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- CLXX. **Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-) + \text{jets}$ and $e(+/-)e(+/-) + \text{jets}$ events in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CLXXI. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in proton-proton collisions root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.717, ss.129-150, 2012 (SCI-Expanded)
- CLXXII. **Search for charge-asymmetric production of W^{\pm} bosons in $t(\bar{t})$ plus jet events from pp**

collisions at root s=7 TeV

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

PHYSICS LETTERS B, cilt.717, ss.351-370, 2012 (SCI-Expanded)

CLXXIII. Search for a W' or Techni-rho Decaying into WZ in pp Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.14, 2012 (SCI-Expanded)

CLXXIV. Performance of CMS muon reconstruction in pp collision events at root s=7TeV

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

JOURNAL OF INSTRUMENTATION, cilt.7, 2012 (SCI-Expanded)

CLXXV. Search for supersymmetry in hadronic final states using M-T2 in pp collisions at root s=7 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.10, 2012 (SCI-Expanded)

CLXXVI. Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.17, 2012 (SCI-Expanded)

CLXXVII. Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV

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

PHYSICAL REVIEW D, cilt.86, sa.7, 2012 (SCI-Expanded)

CLXXVIII. Measurement of the top-quark mass in $t(\bar{t})$ over-bar events with dilepton final states in pp collisions at root s=7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.10, 2012 (SCI-Expanded)

CLXXIX. Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root s=0.9, 2.76, and 7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.10, 2012 (SCI-Expanded)

CLXXX. Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at. root s=7 TeV

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

PHYSICS LETTERS B, cilt.716, sa.1, ss.103-121, 2012 (SCI-Expanded)

CLXXXI. Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, cilt.716, sa.1, ss.82-102, 2012 (SCI-Expanded)

CLXXXII. Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.12, 2012 (SCI-Expanded)

CLXXXIII. Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse

energy in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, cilt.716, sa.2, ss.260-284, 2012 (SCI-Expanded)

CLXXXIV. Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC

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

PHYSICS LETTERS B, cilt.716, sa.1, ss.30-61, 2012 (SCI-Expanded)

CLXXXV. Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.11, 2012 (SCI-Expanded)

CLXXXVI. Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at root s=7 TeV

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

PHYSICAL REVIEW D, cilt.86, sa.5, 2012 (SCI-Expanded)

CLXXXVII. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at root s=7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.9, 2012 (SCI-Expanded)

:LXXXVIII. Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, sa.9, 2012 (SCI-Expanded)

CLXXXIX. Search for dark matter and large extra dimensions in monojet events in pp collisions at root s=7 TeV

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

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CXC. Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV

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

PHYSICS LETTERS B, cilt.715, ss.66-87, 2012 (SCI-Expanded)

CXCI. Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy

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

PHYSICAL REVIEW LETTERS, cilt.109, sa.7, 2012 (SCI-Expanded)

CXCII. 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.

PHYSICAL REVIEW LETTERS, cilt.109, sa.2, 2012 (SCI-Expanded)

CXCIII. Search for heavy long-lived charged particles in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, cilt.713, ss.408-433, 2012 (SCI-Expanded)

CXCIV. Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing

Transverse Energy

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

PHYSICAL REVIEW LETTERS, cilt.108, sa.26, 2012 (SCI-Expanded)

CXCV. **Measurement of the $t(\bar{t})$ over-bar production cross section in pp collisions at root s=7 TeV in dilepton final states containing a tau**

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

PHYSICAL REVIEW D, cilt.85, sa.11, 2012 (SCI-Expanded)

CXCVI. **Search for neutral Higgs bosons decaying to tau pairs in pp collisions at root s=7 TeV**

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

PHYSICS LETTERS B, cilt.713, sa.2, ss.68-90, 2012 (SCI-Expanded)

CXCVII. **Measurement of the mass difference between top and antitop quarks**

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

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CXCVIII. **Observation of a New Xi(b) Baryon**

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CXCIX. **Search for large extra dimensions in dimuon and dielectron events in pp collisions at root s=7 TeV**

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CC. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at root s(NN)=2.76 TeV**

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CCI. **Search for the standard model Higgs boson decaying into two photons in pp collisions at root s=7 TeV**

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CCV. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at root s=7 TeV**

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- CCVIII. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**
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- CCXXI. **Search for $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ and $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ Decays in pp Collisions at root s=7 TeV**
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