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Education Information

Doctorate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1996 - 2001

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, The Design and Tests of the Very Forward Calorimeter of the CMS Detector at Large Hadron Collider, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2001

Research Areas

Physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2010 - Continues

Advising Theses

DUMANOĞLU İ., ANALYSES OF HB, HE, HO AND HF CALORIMETERS OF CMS DETECTOR WITH 2015 COSMIC DATA AND PROTON ? PROTON COLLISION DATA AT $\sqrt{s} = 13$ TeV, Postgraduate, M.İnce(Student), 2016

DUMANOĞLU İ., CMS DETEKTÖRÜNÜN HF KALORİMETRESİNDE YENİLENEN FÇT'LERİN PERFORMANS ANALİZİ, Postgraduate, S.Lezki(Student), 2016

DUMANOĞLU İ., CMS detektörünün hf kalorimetresinin dört anotlu fotoçoğaltıcı tüplerinin kontrol testleri, Postgraduate, U.Kayhan(Student), 2014

DUMANOĞLU İ., Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 8$ TeV, Doctorate, E.Ersin(Student), 2013

DUMANOĞLU İ.,). BHC' de 7 TeV'lik Proton-Proton Çarpışmalarındaki Tek Jet Olaylarında $W^+e^+e^-$ Bozunumundan Kaynaklı SM Katkılarının Elenmesi, Postgraduate, Ü.Kaya(Student), 2012

DUMANOĞLU İ., Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s}=7$ tev, Doctorate, M.Vergili(Student), 2012

DUMANOĞLU İ., Determination of underlying event contribution to the jet energies in CMS heavy ion collisions, Postgraduate, A.Nart(Student), 2011

DUMANOĞLU İ., CMS HF dedektöründe kullanılan fiberlerin radyasyondan gördüğü zararı görüntüleme sistemi, Postgraduate, Y.Güler(Student), 2011

DUMANOĞLU İ., CMS'deki CASTOR kalorimetresinde kullanılan foto-çoğaltıcı tüplerin kalite kontrol testlerinin yapılması ve sonuçlarının incelenmesi, Postgraduate, Z.Demir(Student), 2010

DUMANOĞLU İ., 2008 beam test of CMS-CASTOR prototype IV ve CMS-HF test of online radiation damage monitoring system, Postgraduate, D.Uzun(Student), 2010

DUMANOĞLU İ., Jet shapes at CMS in proton-proton collisions at $\sqrt{s}=14$ TeV, Doctorate, P.Kurt(Student), 2009

DUMANOĞLU İ., LHC Hızlandırıcısındaki CMS Deneyinin HF Kalorimetresinin Test Verilerini Kullanarak HF'in Temel Özelliklerinin Araştırılması, Doctorate, H.Özkurt(Student), 2007

DUMANOĞLU İ., Bilgisayar destekli fizik deneyleri, Postgraduate, D.Nalan(Student), 2006

DUMANOĞLU İ., Jet energy calibration studies, Postgraduate, M.Vergili(Student), 2006

DUMANOĞLU İ., Yüksek enerjilerde proton-proton etkileşmelerinin simülasyonu, Postgraduate, N.Akgül(Student), 2005

DUMANOĞLU İ., HF dedektörünün liflerinin kalite testleri, Postgraduate, H.Çelik(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.853, 2024 (SCI-Expanded)
- II. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
- III. **Observation of $WW\gamma$ Production and Search for $H\gamma$ Production in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- IV. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)
- V. **Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- VI. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

VII. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

VIII. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13$ TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical review letters, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)

IX. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)

X. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13$ TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)

XI. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**

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

Physical Review Letters, vol.132, no.4, 2024 (SCI-Expanded)

XII. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**

Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.

Physical review letters, vol.132, no.2, pp.21803, 2024 (SCI-Expanded)

XIII. **Luminosity determination using Z boson production at the CMS experiment**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.

European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)

XIV. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.

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XV. **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)

XVI. **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.

PHYSICS LETTERS B, vol.768, pp.103-129, 2017 (SCI-Expanded)

XVII. **Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV**

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

- JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-20, 2017 (SCI-Expanded)
- XVIII. **Relative Modification of Prompt $\psi(2S)$ and J/ψ Yields from pp to PbPb Collisions at $\sqrt{s}=5.02$ TeV**
 DUMANOĞLU İ., KAYIŞ TOPAKSU A., TUMASYAN A., Wolfgang A., Albert S.
 PHYSICAL REVIEW LETTERS, vol.118, pp.1-20, 2017 (SCI-Expanded)
- XIX. **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.
 PHYSICS LETTERS B, vol.767, pp.147-170, 2017 (SCI-Expanded)
- XX. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., SIRUNYAN A. M., Wolfgang A., Tumasyan A., ASILAR E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
 JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-20, 2017 (SCI-Expanded)
- XXI. **Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., SIRUNYAN A. M., Tumasyan A., Wolfgang A., Asiler E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ.
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- XXII. **Measurement of the $t(\bar{t})$ over-bar production cross section using events in the e mu final state in pp collisions at $\sqrt{s}=13$ TeV**
 Khachatryan V., SIRUNYAN A. M., Tumasyan A., Wolfgang A., Asiler E., BRANDSTETTER J., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.3, pp.1-20, 2017 (SCI-Expanded)
- XXIII. **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.
 PHYSICAL REVIEW LETTERS, vol.118, no.12, pp.1-20, 2017 (SCI-Expanded)
- XXIV. **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 Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
 JOURNAL OF INSTRUMENTATION, vol.11, 2016 (SCI-Expanded)
- XXV. **Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s}=7$ and 8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brandstetter J., DUMANOĞLU İ., EŞKUT E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.10, pp.1-52, 2016 (SCI-Expanded)
- XXVI. **Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., 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, no.9, pp.1-20, 2016 (SCI-Expanded)
- XXVII. **Measurements of $t(\bar{t})$ over-bar charge asymmetry using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
 PHYSICS LETTERS B, vol.760, pp.365-386, 2016 (SCI-Expanded)
- XXVIII. **Search for a low-mass pseudoscalar Higgs boson produced in association with a $b(\bar{b})$ over-bar pair in pp collisions at $\sqrt{s}=8$ TeV**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.758, pp.296-320, 2016 (SCI-Expanded)

XXIX. Measurement of the $W+W-$ cross section in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous gauge couplings

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.7, 2016 (SCI-Expanded)

XXX. Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=8$ TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.6, 2016 (SCI-Expanded)

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

EŞKUT E., POLATÖZ A., DUMANOĞLU İ.
MODERN PHYSICS LETTERS B, vol.757, pp.154-179, 2016 (SCI-Expanded)

XXXII. Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s}=2.76$ TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.76, no.5, 2016 (SCI-Expanded)

XXXIII. Search for supersymmetry in pp collisions at $\sqrt{s}=8$ 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., Eroo J., et al.
PHYSICAL REVIEW D, vol.93, no.9, 2016 (SCI-Expanded)

XXXIV. 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 $\sqrt{s}=7$ TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghele V. M., et al.
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XXXV. Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$ (vol 10, 128, 2015)

EŞKUT E., POLATÖZ A., DUMANOĞLU İ.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, pp.1-21, 2016 (SCI-Expanded)

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

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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XXXVII. Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8$ TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghele V. M., et al.
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XXXVIII. Search for $W' \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV

Khachtryan V., Sirunyan A., Tumasyan A., Wolfgang A., Asiler E., Bergauer T., Brondolin E., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, pp.1-42, 2016 (SCI-Expanded)

XXXIX. Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- XL. Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**
 KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
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- XLI. Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root s=8 TeV**
 KAYIŞ TOPAKSU A., POLATÖZ A., EŞKUT E., DUMANOĞLU İ.
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- XLII. 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., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., et al.
 PHYSICS LETTERS B, vol.749, pp.14-34, 2015 (SCI-Expanded)
- XLIII. Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at root s=8TeV**
 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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- XLIV. 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, vol.75, no.5, pp.1-50, 2015 (SCI-Expanded)
- XLV. 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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- XLVI. 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., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- XLVII. Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- XLVIII. Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.74, no.11, 2014 (SCI-Expanded)
- XLIX. Observation of the diphoton decay of the Higgs boson and measurement of its properties**
 EŞKUT E., KAYIŞ TOPAKSU A., POLATÖZ A., DUMANOĞLU İ.
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- L. 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.
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- LI. Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root s=8 TeV**
 DUMANOĞLU İ., EŞKUT E., Önençüt G., POLATÖZ A., KAYIŞ TOPAKSU A.

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, pp.1-26, 2014 (SCI-Expanded)

LII. Modification of jet shapes in PbPb collisions at root s(NN)=2.76 TeV

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

PHYSICS LETTERS B, vol.730, pp.243-263, 2014 (SCI-Expanded)

LIII. Searches for light- and heavy-flavour three-jet resonances in pp collisions at root s=8 TeV

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

PHYSICS LETTERS B, vol.730, pp.193-214, 2014 (SCI-Expanded)

LIV. Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s = 8 TeV (vol 2, 024, 2014)

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JOURNAL OF HIGH ENERGY PHYSICS, no.2, pp.1-18, 2014 (SCI-Expanded)

LV. 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.

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LVI. Determination of the top-quark pole mass and strong coupling constant from the t(t)over-bar production cross section in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, vol.728, pp.496-517, 2014 (SCI-Expanded)

LVII. 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., Erö J., Fabjan C., Friedl M., et al.

Journal of High Energy Physics, vol.2014, no.1, 2014 (SCI-Expanded)

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

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LIX. Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV

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

PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)

LX. Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV

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LXI. Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV

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LXII. Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets

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- LXIII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
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- LXIV. **Searches for new physics using the $t(\bar{t})$ invariant mass distribution in pp collisions at root s=8 TeV**
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- LXV. **Search for a new bottomonium state decaying to $Upsilon(1S)\pi^+\pi^-$ in pp collisions at root s=8 TeV**
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- LXVII. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
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- LXVIII. **Measurement of the W-boson helicity in top-quark decays from $t(\bar{t})$ production in lepton plus jets events in pp collisions at root s=7 TeV**
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- LXIX. **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**
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- LXX. **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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- LXXII. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
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- LXXIII. **Interpretation of searches for supersymmetry with simplified models**
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- LXXIV. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- LXXV. **Measurement of the $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ Branching Fraction and Search for $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ with the CMS Experiment**
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- LXXVI. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at $\sqrt{s}=7$ TeV**
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- LXXVII. **Searches for Higgs bosons in pp collisions at $\sqrt{s}=7$ and 8 TeV in the context of four-generation and fermiophobic models**
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- LXXVIII. **search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV**
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- LXXXII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV**
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- LXXXIII. **Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the CMS detector**
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- LXXXIV. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- LXXXV. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
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- LXXXVI. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
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- LXXXVII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at root s 7 TeV**
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- LXXXVIII. **Search for contact interactions in mu(+)mu(-) events in pp collisions at root s = 7 TeV**
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- LXXXIX. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**
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- XC. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**
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- XCII. **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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- XCIII. **Search for a W ' boson decaying to a bottom quark and a top quark in pp collisions at root s=7 TeV**
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- XCIV. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**
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- XCV. **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV**
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- XCVI. Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**
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- XCVII. Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q(q)\text{over-bar}l(+)l(-)$ final state**
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- XCVIII. Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root s(NN)=2.76 TeV**
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- XCIX. Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- CIV. Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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- CV. Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**
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- CVI. Observation of Z decays to four leptons with the CMS detector at the LHC**
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- CVII. **Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state**

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- CVIII. **Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s}$ NN = 2:76 TeV**

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- CIX. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive $e^{+}e^{-}$ production in pp collisions at root s=7 TeV**

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- CX. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**

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

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

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

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- CXIV. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at root s(NN)=2.76 TeV**

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

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

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- CXVII. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in proton-proton collisions root s=7 TeV**

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- CXVIII. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s}=7$ TeV**
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- CXX. **Search for charge-asymmetric production of $W^\pm$ bosons in $t(\bar{t})$ plus jet events from pp collisions at $\sqrt{s}=7$ TeV**
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- CXXI. **Search for heavy Majorana neutrinos in $\mu(\pm)\mu(\pm) + \text{jets}$ and $e(\pm)e(\pm) + \text{jets}$ events in pp collisions at $\sqrt{s}=7$ TeV**
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- CXXII. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
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- CXXIII. **Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at $\sqrt{s}=7$ TeV**
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- CXXIV. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s}=7$ TeV**
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- CXXV. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**
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- CXXVI. **Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at $\sqrt{s}=7$ TeV**
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- CXXVII. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV**
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- CXXVIII. **Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}=7$ TeV**

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- CXXXIX. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}=7$ TeV**
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Metrics

- Publication: 231
- Citation (WoS): 21674
- Citation (Scopus): 16024
- H-Index (WoS): 64
- H-Index (Scopus): 73