

SUAT ÖZKORUCUKLU

PROF.

Email : suat.ozkorucuklu@istanbul.edu.tr

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 15502

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 15526

Fax Phone : [+90 212 519 0834](tel:+902125190834)

Address : İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, D Blok 209 Vezneciler, 34134 Fatih, İstanbul

International Researcher IDs

ORCID: 0000-0001-5153-9266

Publons / Web Of Science ResearcherID: AAE-7535-2020

ScopusID: 6602521151

Yoksis Researcher ID: 14406

Learning Knowledge

Doctorate 1994 - 2001	The University of Iowa, Physics Department, High Energy Physics, United States Of America
Postgraduate 1990 - 1993	Gazi University, Fen Bilimleri Enstitüsü, Atom Ve Molekül Fiziği, Turkey
Undergraduate 1986 - 1990	Gazi University, Fen Edebiyat, Fizik, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, A Sınıfı İş Sağlığı ve Güvenliği Uzmanı, Çalışma ve Sosyal Güvenlik Bakanlığı, 2014

Dissertations

Doctorate, Charged K/pi Production Ratios with Sigma, Kaon and Protons on Carbon and Copper targets, The University of Iowa, Fizik, Yüksek Enerji Fiziği, 2001

Academic Titles / Tasks

Professor 2013 - Continues	Istanbul University, Faculty of Science, Department of Physics
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Professor
2011 - 2013

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Associate Professor
2006 - 2011

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Assistant Professor
2002 - 2006

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Research Assistant
1999 - 2001

The University of Iowa, Physics Department, Physics

Research Assistant
1994 - 1998

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Research Assistant
1990 - 1993

Gazi University, Fen Edebiyat Fakültesi, Fizik

Supported Projects

1. Gürkan G., Özkorucuklu S., Oktayoğlu S., Project Supported by Higher Education Institutions, Development of a multi-modal gel imaging system, 2022 - 2024
2. ÖZKORUCUKLU S., ALBROW M., PENZO A., GÜRKAN G., AYDİLEK O., HACİŞAHİNOĞLU B., Project Supported by Higher Education Institutions, CMS Detektöründe Çok İleri Bölge Fizik Analizleri ve FACET Forward Aperture CMS ExTension Detektör Tasarım Çalışmaları, 2022 - 2023
3. Sunar Çerçi D., Özkorucuklu S., Çerçi S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Cms Hl-Lhc (Cern) İçin Son Derece Hassas Demet-Demet Luminometresi Geliştirilmesi , 2020 - 2023
4. Arıcı T., Özkorucuklu S., Erduran N., Yetkin T., Özok F., TUBITAK Project, Novel Gamma Camera with New Generation Data Acquisition System and Its Applications , 2020 - 2023
5. Özkorucuklu S., Şahin Yalçın L., Yetkin T., Sunar Çerçi D., Çerçi S., Özok F., Gürkan K., Doğan A., Kılınc S., Hafizoğlu Alkan N., et al., Project Supported by Other Official Institutions, 2020 - 2023
6. Özkorucuklu S., Sert H., Şahin Yalçın L., Çelikleş C., Zorbilmez Ç., Hoş İ., Gürkan G., Işıldak B., Kaynak B., Aggez G., et al., Project Supported by Other Official Institutions, CMS Detektöründe Çok İleri Bölge Fizik Analizleri, İnkülfif pp Etkileşmeleri, PPS (Hassas Proton Spektrometresi) Hassas Zaman Ölçüm Detektörü ve HCAL (Hadronik Kalorimetre) Faz 2. Güncelleme Çalışmaları, 2020 - 2023
7. ÖZKORUCUKLU S., SOYLAMIŞ A., ŞAHİN YALÇIN L., KAYNAK B., GÜRKAN G., SERT H., ZORBİLMEZ Ç., Project Supported by Higher Education Institutions, CERN CMS Deneyi Üyeliği Yüksek Enerji Fiziği ve Detektör Geliştirme Çalışmaları, 2018 - 2022
8. ÖZKORUCUKLU S., EROL A., Project Supported by Higher Education Institutions, Genel Amaçlı Radyasyon Detektörleri Test Düzeneli Kurulumu, 2015 - 2017
9. ÖZKORUCUKLU S., Project Supported by Higher Education Institutions, Muon Tomografisi Üzerine Simülasyon Çalışmaları, 2015 - 2017
10. Özkorucuklu S., Gülmez E., Project Supported by Other Official Institutions, CMS Dedektöründe Veri Keşfi, Jetler, B-Fiziği ve Birinci Faz Sonraı Dedektör Güncellemesi Çalışmaları, 2014 - 2017
11. Yavaş Ö., Akkuş B., Özkorucuklu S., Öktem Y., Şahin Yalçın L., Demir B., Ganioglu Nutku E., Çakırlı Mutlu R. B., Susam L., Küçer R., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik

Tasarımı ve Test Laboratuvarlarının Kurulması, 2011 - 2015

12. Özkorucuklu S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik Tasarımı ve Test Laboratuvarları”, DPT Araştırma Projesi, 2006 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and $\psi(2S)$ mesons produced in pp collisions at $s=13\text{TeV}$**
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.858, 2024 (SCI-Expanded)
2. **Study of time resolution measurements and prospects for energy resolution of an ultra-compact sampling calorimeter (RADiCAL) module at EM shower maximum over the energy range 25 GeV 150 GeV**
Perez-Lara C., Wetzel J., Akgun U., Anderson T., Barbera T., Blend D., Cankocak K., Cerci S., Chigurupati N., Cox B., et al.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, vol.1068, 2024 (SCI-Expanded)
3. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ 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.
Physical review letters, vol.133, no.16, pp.161805, 2024 (SCI-Expanded)
4. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp 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.
Physical review letters, vol.133, no.14, pp.142301, 2024 (SCI-Expanded)
5. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $s=13\text{TeV}$**
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.857, 2024 (SCI-Expanded)
6. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $s = 13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)
7. **KS^0 and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $s_{NN}=5.02\text{TeV}$**
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.857, 2024 (SCI-Expanded)
8. **Observation of the $\Lambda b^0 \rightarrow J/\psi \Xi^- K^+$ decay**
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.10, 2024 (SCI-Expanded)
9. **Performance of the CMS electromagnetic calorimeter in pp 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.
Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)
10. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**

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

Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)

11. **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**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.9, 2024 (SCI-Expanded)
12. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.133, no.7, 2024 (SCI-Expanded)
13. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
14. **Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
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.855, 2024 (SCI-Expanded)
15. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
16. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
17. **Search for long-lived particles 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.
Physical Review D, vol.110, no.3, 2024 (SCI-Expanded)
18. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**
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 Letters, vol.133, no.2, 2024 (SCI-Expanded)
19. **Search for Narrow Trijet Resonances 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.133, no.1, 2024 (SCI-Expanded)
20. **Observation of the Formula Presented decay and studies of the Formula Presented baryon 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.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
21. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13$ TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)

22. **Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Reports on Progress in Physics, vol.87, no.7, 2024 (SCI-Expanded)

23. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at $\sqrt{s}=13$ 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 D, vol.110, no.1, 2024 (SCI-Expanded)

24. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors 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., Hussain P., Jeitler M., et al.
Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)

25. **Search for ZZ and ZH production in the $bb\bar{b}\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.7, 2024 (SCI-Expanded)

26. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at $\sqrt{s}=13$ 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 D, vol.110, no.1, 2024 (SCI-Expanded)

27. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.132, no.26, 2024 (SCI-Expanded)

28. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at $\sqrt{s}=13$ TeV**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.132, no.24, 2024 (SCI-Expanded)

29. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons 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.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)

30. **Nonresonant central exclusive production of charged-hadron pairs 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., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)

31. **Search for long-lived particles using displaced vertices 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., Hussain P., Jeitler M., et al.

- PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
32. **Observation of the $J/\psi \rightarrow \mu^+\mu^- \mu^+\mu^-$ decay 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., Hussain P., Jeitler M., et al.
PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
33. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
34. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks 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., Hussain P., Jeitler M., et al.
PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
35. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13$ 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)
36. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13$ 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 High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
37. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
38. **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13$ 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 High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
39. **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.)**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
40. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
41. **Development of the CMS detector for the CERN LHC Run 3**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Journal of Instrumentation, vol.19, no.5, 2024 (SCI-Expanded)
42. **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**

- 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 D, vol.109, no.9, 2024 (SCI-Expanded)
43. **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**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
European Physical Journal C, vol.84, no.5, 2024 (SCI-Expanded)
44. **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 $\sqrt{s}=13$ 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 D, vol.109, no.7, 2024 (SCI-Expanded)
45. **Timing performance of the CMS High Granularity Calorimeter prototype**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhusseini M., Alison J., Alpana A., et al.
Journal of Instrumentation, vol.19, no.4, 2024 (SCI-Expanded)
46. **Search for supersymmetry in final states with disappearing tracks 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 D, vol.109, no.7, 2024 (SCI-Expanded)
47. **Observation of $WW\gamma$ Production and Search for $H\gamma$ Production 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.
PHYSICAL REVIEW LETTERS, vol.132, no.12, 2024 (SCI-Expanded)
48. **New Structures in the $\langle i \rangle J/\psi j/\psi \langle /i \rangle$ Mass Spectrum 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.
PHYSICAL REVIEW LETTERS, vol.132, no.11, 2024 (SCI-Expanded)
49. **Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.3, 2024 (SCI-Expanded)
50. **Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $s_{NN}=5.02$ 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)
51. **Search for dark matter particles in $W^{+}W^{-}$ events with transverse momentum imbalance 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 HIGH ENERGY PHYSICS, vol.2024, no.3, 2024 (SCI-Expanded)
52. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ 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)
53. **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)
54. **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)
55. **Higher-order moments of the elliptic flow distribution in PbPb collisions at $s_{NN} = 5.02$ 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.
Journal of High Energy Physics, vol.2024, no.2, 2024 (SCI-Expanded)
56. **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)
57. **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, 2024 (SCI-Expanded)
58. **Measurement of the τ lepton polarization in Z boson decays 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 HIGH ENERGY PHYSICS, vol.2024, no.1, 2024 (SCI-Expanded)
59. **Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $s_{NN} = 5.02$ 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.
Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)
60. **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.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
61. **Effect of Water Exposed to Electric Current on Gamete Quality of Rainbow Trout (*Oncorhynchus mykiss*) and Water Parameters**
EKİCİ A., Hassan Ahmed M. A., Keskin İ., ÖZKORUCUKLU S.
Israeli Journal of Aquaculture - Bamidgeh, vol.76, no.4, pp.42-55, 2024 (SCI-Expanded)
62. **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)
63. **Monte Carlo Simulation of Liver Dosimetry with Yttrium-90 Radionuclide Using Gate: 3D Phantom**
Karadeniz-Yildirim A., ÖZKORUCUKLU S., Tanyildizi-Kokkulunk H., DEMİR M., Yasar D.
Bulletin of the Lebedev Physics Institute, vol.51, no.1, pp.30-37, 2024 (SCI-Expanded)
64. **Search for pair-produced vector-like leptons in final states with third-generation leptons and at least three b quark jets in proton-proton collisions at $s=13$ 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.846, 2023 (SCI-Expanded)

65. **Measurement of the $t\bar{t}$ charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at $s=13$ 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.846, 2023 (SCI-Expanded)
66. **Search for the Higgs boson decay to a pair of electrons in proton-proton collisions at $s=13$ 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.846, 2023 (SCI-Expanded)
67. **Observation of τ Lepton Pair Production in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ 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 letters, vol.131, no.15, pp.151803, 2023 (SCI-Expanded)
68. **A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at $\sqrt{s}=13$ 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.
 European Physical Journal C, vol.83, no.10, 2023 (SCI-Expanded)
69. **Measurement of the top quark mass using a profile likelihood approach with the lepton + jets final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
 European Physical Journal C, vol.83, no.10, 2023 (SCI-Expanded)
70. **Measurement of the Dependence of the Hadron Production Fraction Ratios f_s/f_u and f_d/f_u on B Meson Kinematic Variables in Proton-Proton Collisions at Formula Presented**
 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 Letters, vol.131, no.12, 2023 (SCI-Expanded)
71. **Two-particle azimuthal correlations in γp interactions using pPb collisions at $s_{NN}=8.16$ TeV**
 Tumasyan A., Adam W., Bergauer T., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.844, 2023 (SCI-Expanded)
72. **Search for medium effects using jets from bottom quarks in PbPb collisions at $s_{NN}=5.02$ 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.844, 2023 (SCI-Expanded)
73. **Evidence for four-top quark production in proton-proton collisions at $s=13$ 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.844, 2023 (SCI-Expanded)
74. **Search for new heavy resonances decaying to WW , WZ , ZZ , WH , or ZH boson pairs in the all-jets final state in proton-proton collisions at $s=13$ 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.844, 2023 (SCI-Expanded)
75. **Search for Exotic Higgs Boson Decays $H\rightarrow AA\rightarrow 4\gamma$ with Events Containing Two Merged Diphotons in Proton-Proton Collisions at $\sqrt{s}=13$ 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 letters, vol.131, no.10, pp.101801, 2023 (SCI-Expanded)

76. **Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, vol.108, no.5, 2023 (SCI-Expanded)
77. **Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
PHYSICAL REVIEW D, vol.108, no.5, 2023 (SCI-Expanded)
78. **Observation of the Rare Decay of the η Meson to Four Muons**
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.131, no.9, pp.91903, 2023 (SCI-Expanded)
79. **Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Damanakis K., Lechner L., Paulitsch P., Schwarz D., Dragicevic M., Erö J., et al.
Journal of Instrumentation, vol.18, no.9, 2023 (SCI-Expanded)
80. **Observation of Same-Sign WW Production from Double Parton Scattering in Proton-Proton Collisions at $\sqrt{s}=13$ 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 letters, vol.131, no.9, pp.91803, 2023 (SCI-Expanded)
81. **A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.83, no.9, 2023 (SCI-Expanded)
82. **Search for a vector-like quark $T' \rightarrow tH$ via the diphoton decay mode of the Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ 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.
Journal of High Energy Physics, vol.2023, no.9, 2023 (SCI-Expanded)
83. **Search for Higgs Boson Decay to a Charm Quark-Antiquark Pair in Proton-Proton Collisions at $\sqrt{s}=13$ 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 letters, vol.131, no.6, pp.61801, 2023 (SCI-Expanded)
84. **Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-proton collisions at $s=13$ 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.843, 2023 (SCI-Expanded)
85. **Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions.**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
Physical review letters, vol.131, no.5, pp.51901, 2023 (SCI-Expanded)
86. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the $t\bar{t}$ final state**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle

- A., Frühwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, vol.108, no.3, 2023 (SCI-Expanded)
87. **Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson**
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 D, vol.108, no.3, 2023 (SCI-Expanded)
88. **Azimuthal correlations in Z +jets events in proton–proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)
89. **Measurement of the electroweak production of Formula Presented in association with two jets in proton-proton collisions at Formula Presented**
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 D, vol.108, no.3, 2023 (SCI-Expanded)
90. **Measurements of jet multiplicity and jet transverse momentum in multijet events in proton–proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)
91. **Geant4 Study for Geometry of Quartz Fiber Luminometer at CMS HL-LHC**
D. Sunar Cerci S., Cerci S., Aydilek O., Özkorucuklu S., Zorbilmez Ç., Selivanova D., Popova E., Ilyin A.
Physics of Particles and Nuclei, vol.54, no.4, pp.725-728, 2023 (SCI-Expanded)
92. **Search for Higgs Boson and Observation of Z Boson through Their Decay into a Charm Quark-Antiquark Pair in Boosted Topologies in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.4, 2023 (SCI-Expanded)
93. **Search for Nonresonant Pair Production of Highly Energetic Higgs Bosons Decaying to Bottom Quarks**
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 letters, vol.131, no.4, pp.41803, 2023 (SCI-Expanded)
94. **Precision measurement of the Z boson invisible width in pp collisions root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
PHYSICS LETTERS B, vol.842, 2023 (SCI-Expanded)
95. **Search for electroweak production of charginos and neutralinos at root s=13 Tev in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
PHYSICS LETTERS B, vol.842, 2023 (SCI-Expanded)
96. **Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at s=13 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.842, 2023 (SCI-Expanded)
97. **Search for a massive scalar resonance decaying to a light scalar and a Higgs boson in the four b quarks final state with boosted topology**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle

- A., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
98. **Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ decay properties and search for the $B^0 \rightarrow \mu^+ \mu^-$ decay in proton-proton collisions at $s=13\text{TeV}$**
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.842, 2023 (SCI-Expanded)
99. **Search for Higgs boson decays into Z and J/psi and for Higgs and Z boson decays into J/psi or Y pairs in pp collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
PHYSICS LETTERS B, vol.842, 2023 (SCI-Expanded)
100. **Probing Heavy Majorana Neutrinos and the Weinberg Operator through Vector Boson Fusion Processes in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical review letters, vol.131, no.1, pp.11803, 2023 (SCI-Expanded)
101. **Search for CP violation in $t t^- H$ and tH production in multilepton channels in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
102. **Search for CP violating top quark couplings in pp collisions at $\sqrt{s} = 13\text{ TeV}$**
Tumasyan A., Adam W., Bergauer T., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., Lechner L., Liko D., et al.
Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
103. **Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, vol.108, no.1, 2023 (SCI-Expanded)
104. **Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.
European Physical Journal C, vol.83, no.7, 2023 (SCI-Expanded)
105. **CMS pythia 8 colour reconnection tunes based on underlying-event data**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.7, 2023 (SCI-Expanded)
106. **Search for direct pair production of supersymmetric partners of τ leptons in the final state with two hadronically decaying τ leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, vol.108, no.1, 2023 (SCI-Expanded)
107. **Observation of electroweak $W+W^-$ pair production in association with two jets in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
PHYSICS LETTERS B, vol.841, 2023 (SCI-Expanded)

108. **Search for long-lived particles decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ 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.
 Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)
109. **Search for heavy resonances and quantum black holes in $e\mu$, $e\tau$, and $\mu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
 Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)
110. **Search for nonresonant Higgs boson pair production in the four leptons plus twob jets final state in proton-proton collisions at $\sqrt{s} = 13$ 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.
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
111. **Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at $\sqrt{s} = 13$ 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.
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
112. **Search for CP violation using (Formula presented.) events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
 Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
113. **Radon gas passive measurement system production**
 Ceylan S., Kalayci A. G., Altug H., Ozkorucuklu S., Ozek N.
 INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.20, no.5, pp.5547-5556, 2023 (SCI-Expanded)
114. **Nuclear modification of Y states in pPb collisions at $s_{NN}=5.02$ TeV**
 Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., Jeitler M., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.835, 2022 (SCI-Expanded)
115. **Search for new particles in an extended Higgs sector with four b quarks in the final state at $s=13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.835, 2022 (SCI-Expanded)
116. **Measurements of the associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., Lechner L., et al.
 European Physical Journal C, vol.82, no.12, 2022 (SCI-Expanded)
117. **A study on the effect of using magnetized water in dilution of the milt of Black Sea trout (*Salmo trutta labrax*) on sperm motility**
 Ahmed M. H., Keskin İ., Özkörucuklu S., Ekici A.
 Aquaculture Research, vol.53, no.17, pp.6324-6332, 2022 (SCI-Expanded)
118. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
 Nature Physics, vol.18, no.11, pp.1329-1334, 2022 (SCI-Expanded)

119. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at $\sqrt{s} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
 Journal of High Energy Physics, vol.2022, no.9, 2022 (SCI-Expanded)
120. **Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
 PHYSICS LETTERS B, vol.832, 2022 (SCI-Expanded)
121. **Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
 Physical Review Letters, vol.129, no.8, 2022 (SCI-Expanded)
122. **Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)
123. **Search for heavy resonances decaying to $Z(\nu\nu^*)V(qq^*)$ in proton-proton collisions at $\sqrt{s} = 13$ TeV**
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 Physical Review Letters, vol.129, no.1, 2022 (SCI-Expanded)
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- Jeitler M., Krammer N., et al.
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JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.12, 2021 (SCI-Expanded)
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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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 JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.10, 2021 (SCI-Expanded)
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- Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
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- Frühwirth R., Jeitler M., et al.
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JOURNAL OF INSTRUMENTATION, vol.16, no.5, 2021 (SCI-Expanded)
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 JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.12, 2020 (SCI-Expanded)
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 Kokkulunk H. T., Demir M., Yildirim A. K., ÖZKORUCUKLU S., AKKUŞ B., Yasar D.
 ACTA PHYSICA POLONICA A, vol.138, no.6, pp.801-808, 2020 (SCI-Expanded)

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JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.11, 2020 (SCI-Expanded)
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PHYSICAL REVIEW LETTERS, vol.125, no.22, 2020 (SCI-Expanded)
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JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.11, 2020 (SCI-Expanded)
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 width="0.166667em"mml:mospaceTe mml:mospace width="0.333333em"mml:mospace**
 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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 JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.1, 2020 (SCI-Expanded)
334. **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.
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 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, vol.123, no.23, 2019 (SCI-Expanded)
336. **Search for long-lived particles using delayed photons 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 D, vol.100, no.11, 2019 (SCI-Expanded)
337. **Study of the $B^+ \rightarrow J/\psi(\Lambda_b)\text{-bar}$ decay in proton-proton collisions at root $s=8$ TeV**
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 PHYSICAL REVIEW D, vol.100, no.11, 2019 (SCI-Expanded)
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 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, no.11, 2019 (SCI-Expanded)
344. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**

- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
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JOURNAL OF HIGH ENERGY PHYSICS, vol.6, pp.1-43, 2019 (SCI-Expanded)
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 PHYSICAL REVIEW LETTERS, vol.122, no.13, 2019 (SCI-Expanded)
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JOURNAL OF HIGH ENERGY PHYSICS, vol.3, pp.1-41, 2019 (SCI-Expanded)
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JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
396. **Search for the pair production of light top squarks in the $e(+/-)\mu(-/+)$ final state 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
397. **Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV (vol 6, 127, 2018)**
ÖZKORUCUKLU S., TUMASYAN A., SIRUNYAN A. M., Kaynak B.
JOURNAL OF HIGH ENERGY PHYSICS, vol.3, no.128, pp.10, 2019 (SCI-Expanded)
398. **Search for Narrow H gamma Resonances 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.
PHYSICAL REVIEW LETTERS, vol.122, no.8, 2019 (SCI-Expanded)

399. **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $s=13$ TeV**
 Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
400. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root $s=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW LETTERS, vol.122, no.12, 2019 (SCI-Expanded)
401. **Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at root $s=13$ TeV**
 SIRUNYAN A. M., TUMASYAN A., ADAM W., ÖZKORUCUKLU S., Gülmez E., Kaya M., Atakışi I.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.3, pp.1-45, 2019 (SCI-Expanded)
402. **Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Escalante Del Valle A., et al.
 European Physical Journal C, vol.79, no.3, 2019 (SCI-Expanded)
403. **Inclusive search for supersymmetry in pp collisions at root $s=13$ TeV using razor variables and boosted object identification in zero and one lepton final states**
 Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
404. **Search for pair production of first-generation scalar leptoquarks at root $s=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW D, vol.99, no.5, 2019 (SCI-Expanded)
405. **Multiparticle correlations and higher order harmonics in pPb collisions at root $s(NN)=8.16$ TeV**
 Wang Q., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, vol.982, pp.375-378, 2019 (SCI-Expanded)
406. **Evidence for light-by-light scattering in ultraperipheral PbPb collisions at root $S=5.02$ TeV**
 d'Enterria D., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
 NUCLEAR PHYSICS A, vol.982, pp.791-794, 2019 (SCI-Expanded)
407. **Measurements of $t(\bar{t})$ differential cross sections in proton-proton collisions at root $s=13$ TeV using events containing two leptons**
 Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
408. **Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 European Physical Journal C, vol.79, no.2, 2019 (SCI-Expanded)
409. **Search for new particles decaying to a jet and an emerging jet**
 Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
410. **Search for pair production of second-generation leptoquarks at root $s=13$ TeV**

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

PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)

411. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
Stojanovic M., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
NUCLEAR PHYSICS A, vol.982, pp.395-398, 2019 (SCI-Expanded)
412. **Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**
Oh G., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
NUCLEAR PHYSICS A, vol.982, pp.743-746, 2019 (SCI-Expanded)
413. **Fragmentation of J/psi in jets in pp collisions at root s=5.02 TeV Batoul Diab for the CMS collaboration**
Diab B., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
NUCLEAR PHYSICS A, vol.982, pp.186-188, 2019 (SCI-Expanded)
414. **Search for long-lived particles decaying into displaced 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.
PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)
415. **Search for the chiral magnetic effect at the LHC with the CMS experiment**
Tu Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
NUCLEAR PHYSICS A, vol.982, pp.527-530, 2019 (SCI-Expanded)
416. **D-0-Meson R-AA in PbPb Collisions at root s(NN)=5.02 TeV and Elliptic Flow in pPb Collisions at root s(NN)=8.16 TeV with CMS**
Shi Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., et al.
NUCLEAR PHYSICS A, vol.982, pp.647-650, 2019 (SCI-Expanded)
417. **Search for new physics in final states with a single photon and missing transverse momentum 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
418. **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**
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, vol.79, no.2, 2019 (SCI-Expanded)
419. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.2, 2019 (SCI-Expanded)
420. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)
421. **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**

- 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, no.1, 2019 (SCI-Expanded)
422. **Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.1, 2019 (SCI-Expanded)
423. **Search for pair-produced three-jet resonances in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.99, no.1, 2019 (SCI-Expanded)
424. **Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.99, no.1, 2019 (SCI-Expanded)
425. **Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at root 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)
426. **Search for vector-like quarks in events with two oppositely charged leptons and jets 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.
European Physical Journal C, vol.79, no.4, 2019 (SCI-Expanded)
427. **Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2018 (SCI-Expanded)
428. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)
429. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.24, 2018 (SCI-Expanded)
430. **Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)
431. **Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.98, no.9, 2018 (SCI-Expanded)

432. **Evidence for the Associated Production of a Single Top Quark and a Photon 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.
 PHYSICAL REVIEW LETTERS, vol.121, no.22, 2018 (SCI-Expanded)
433. **Measurement of jet substructure observables in $t(\bar{t})$ events from 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, vol.98, no.9, 2018 (SCI-Expanded)
434. **Studies of $B_s^{*0}(5840)$ and $B_s(5830)$ mesons including the observation of the $B_s^{*0}(5840) \rightarrow B_0 K_S^0$ decay in proton-proton collisions at $\sqrt{s}=8$ 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.
 European Physical Journal C, vol.78, no.11, 2018 (SCI-Expanded)
435. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)
436. **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 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, no.11, 2018 (SCI-Expanded)
437. **Search for long-lived particles with displaced vertices in multijet 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.
 PHYSICAL REVIEW D, vol.98, no.9, 2018 (SCI-Expanded)
438. **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**
 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, no.11, 2018 (SCI-Expanded)
439. **Performance of reconstruction and identification of tau leptons decaying to hadrons and $\nu(\tau)$ in pp collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
440. **Observation of Higgs Boson Decay to Bottom Quarks**
 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, vol.121, no.12, 2018 (SCI-Expanded)
441. **Simulation and experimental measurement of radon activity using a multichannel silicon-based radiation detector**
 Ozdemir F. B., Selcuk A. B., Ozkorucuklu S., Alpat A. B., Ozdemir T., ÖZEK N.
 APPLIED RADIATION AND ISOTOPES, vol.135, pp.61-66, 2018 (SCI-Expanded)
442. **Evaluation of dentin permeability of fluorotic permanent teeth**
 Guzel K. G. U., ERTURK M. S. O., KIRZIOĞLU Z., Ozkorucuklu S.
 ACTA ODONTOLOGICA SCANDINAVICA, vol.76, no.6, pp.415-421, 2018 (SCI-Expanded)

443. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
444. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
445. **Dentin Permeability of Carious Primary Teeth**
Guzel K. G. U., KIRZIOĞLU Z., Ozkorucuklu S.
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.20, no.12, pp.1566-1570, 2017 (SCI-Expanded)
446. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.770, pp.50-71, 2017 (SCI-Expanded)
447. **The transverse momentum dependence of charged kaon Bose-Einstein correlations in the SELEX experiment**
Nigmatkulov G. A., Ponosovi A. K., Akgun U., Alkhazov G., Amaro-Reyes J., Asratyan A., Atamantchouk A. G., Ayan A. S., Balatz M. Y., Blanco-Covarrubias A., et al.
PHYSICS LETTERS B, vol.753, pp.458-464, 2016 (SCI-Expanded)
448. **Search for supersymmetry with razor variables in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.11, 2014 (SCI-Expanded)
449. **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)
450. **Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at root s=8 TeV by the CMS and TOTEM experiments**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.10, 2014 (SCI-Expanded)
451. **Measurement of the ratio of inclusive jet cross sections using the anti-k(T) algorithm with radius parameters R=0.5 and 0.7 in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.7, 2014 (SCI-Expanded)
452. **Description and performance of track and primary-vertex reconstruction with the CMS tracker**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, vol.9, 2014 (SCI-Expanded)
453. **Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.113, no.13, 2014 (SCI-Expanded)
454. **Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at root s=8 TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
455. **Search for anomalous production of events with three or more leptons in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
456. **Measurement of jet multiplicity distributions in t(t)over-bar production in pp collisions at root s=7TeV**
Chatrchyan S., Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
457. **Measurement of jet fragmentation in PbPb and pp collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW C, vol.90, no.2, 2014 (SCI-Expanded)
458. **Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
459. **Measurement of the muon charge asymmetry in inclusive pp -> W plus X production at root s=7 TeV and an improved determination of light parton distribution functions**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
460. **Measurement of WZ and ZZ production in pp collisions at in final states with b-tagged jets**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
461. **Measurement of the production cross section for a W boson and two b jets in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.735, pp.204-225, 2014 (SCI-Expanded)
462. **Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at root s(NN)=5.02 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.7, 2014 (SCI-Expanded)
463. **Observation of a peaking structure in the J/psi phi mass spectrum from B-+/- -> J/psi phi K-+/- decays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.734, pp.261-281, 2014 (SCI-Expanded)
464. **Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2014 (SCI-Expanded)

465. **Search for pair production of excited top quarks in the lepton plus jets final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2014 (SCI-Expanded)
466. **Probing color coherence effects 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.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.6, 2014 (SCI-Expanded)
467. **Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at root s=8 Tev**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2014 (SCI-Expanded)
468. **Observation of the Associated Production of a Single Top Quark - and a W Boson 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, vol.112, no.23, 2014 (SCI-Expanded)
469. **Study of the production of charged pions, kaons, and protons in pPb collisions at root SNN=5.02 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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470. **Measurement of the triple-differential cross section for photon plus jets production in proton-proton collisions at=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2014 (SCI-Expanded)
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PHYSICS LETTERS B, vol.733, pp.328-353, 2014 (SCI-Expanded)
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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, vol.9, 2014 (SCI-Expanded)
473. **Measurement of four-jet production in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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474. **Search for W ' -> tb decays in the lepton plus jets final state in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2014 (SCI-Expanded)
475. **Evidence for the 125 GeV Higgs boson decaying to a pair of tau leptons**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2014 (SCI-Expanded)
476. **Measurement of Inclusive W and Z Boson Production Cross Sections in pp Collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C.,

- Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.19, 2014 (SCI-Expanded)
477. **Measurement of the properties of a Higgs boson in the four-lepton final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.89, no.9, 2014 (SCI-Expanded)
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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, vol.89, no.9, 2014 (SCI-Expanded)
479. **Measurements of t(t)over-bar Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.18, 2014 (SCI-Expanded)
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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, vol.112, no.17, 2014 (SCI-Expanded)
481. **Search for Top-Quark Partners with Charge 5/3 in the Same-Sign Dilepton Final State**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.17, 2014 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
483. **Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.16, 2014 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
485. **Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW C, vol.89, no.4, 2014 (SCI-Expanded)
486. **Measurement of the top-quark mass in all-jets t(t)over-bar events in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.4, 2014 (SCI-Expanded)
487. **Search for baryon number violation in top-quark decays**
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, vol.731, pp.173-196, 2014 (SCI-Expanded)

488. **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)
489. **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)
490. **Study of double parton scattering using $W+2$ -jet events in proton-proton collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2014 (SCI-Expanded)
491. **Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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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.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2014 (SCI-Expanded)
493. **Inclusive search for a vector-like T quark with charge $2/3$ in pp collisions at root $s=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.729, pp.149-171, 2014 (SCI-Expanded)
494. **Measurement of associated W plus charm production in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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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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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.89, no.1, 2014 (SCI-Expanded)
497. **Determination of the top-quark pole mass and strong coupling constant from the $t(\bar{t})$ production cross section in pp collisions at root $s=7$ 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)
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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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PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)
500. **Search for top-squark pair production in the single-lepton final state in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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PHYSICS LETTERS B, vol.727, pp.381-402, 2013 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)
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PHYSICAL REVIEW LETTERS, vol.111, no.22, 2013 (SCI-Expanded)
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PHYSICAL REVIEW LETTERS, vol.111, no.21, 2013 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguiló E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICS LETTERS B, vol.726, pp.564-586, 2013 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.726, pp.587-609, 2013 (SCI-Expanded)
509. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.727, pp.57-76, 2013 (SCI-Expanded)
510. **Angular analysis and branching fraction measurement of the decay B-0 -> K*(0)mu(+)mu(-)**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.727, pp.77-100, 2013 (SCI-Expanded)
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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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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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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, vol.73, no.10, 2013 (SCI-Expanded)
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JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2013 (SCI-Expanded)
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EUROPEAN PHYSICAL JOURNAL C, vol.73, no.10, 2013 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2013 (SCI-Expanded)
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PHYSICS LETTERS B, vol.725, pp.243-270, 2013 (SCI-Expanded)
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PHYSICAL REVIEW D, vol.88, no.5, 2013 (SCI-Expanded)
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- EUROPEAN PHYSICAL JOURNAL C, vol.73, no.9, 2013 (SCI-Expanded)
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PHYSICAL REVIEW LETTERS, vol.111, no.10, 2013 (SCI-Expanded)
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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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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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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.111, no.8, 2013 (SCI-Expanded)
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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, vol.725, pp.36-59, 2013 (SCI-Expanded)
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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.
PHYSICS LETTERS B, vol.724, pp.213-240, 2013 (SCI-Expanded)
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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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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2013 (SCI-Expanded)
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JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2013 (SCI-Expanded)
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EUROPEAN PHYSICAL JOURNAL C, vol.73, no.7, 2013 (SCI-Expanded)
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- Friedl M., et al.
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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.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2013 (SCI-Expanded)
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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, vol.723, pp.280-301, 2013 (SCI-Expanded)
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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, vol.87, no.11, 2013 (SCI-Expanded)
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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, vol.87, no.11, 2013 (SCI-Expanded)
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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.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.6, 2013 (SCI-Expanded)
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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.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2013 (SCI-Expanded)
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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, vol.722, pp.207-232, 2013 (SCI-Expanded)
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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, vol.722, pp.238-261, 2013 (SCI-Expanded)
540. **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, vol.722, pp.273-294, 2013 (SCI-Expanded)
541. **Search for fractionally charged particles in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.9, 2013 (SCI-Expanded)
542. **Search for anomalous production of highly boosted Z bosons decaying to mu(+)mu(-) in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, vol.722, pp.28-47, 2013 (SCI-Expanded)
543. **Measurement of the inelastic proton-proton cross section 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, vol.722, pp.5-27, 2013 (SCI-Expanded)
544. **Studies of jet mass in dijet and W/Z plus jet events**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2013 (SCI-Expanded)
545. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.5, 2013 (SCI-Expanded)
546. **Measurement of the $t(\bar{t})$ production cross section in the all-jet final state in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2013 (SCI-Expanded)
547. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2013 (SCI-Expanded)
548. **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.
PHYSICAL REVIEW LETTERS, vol.110, no.17, 2013 (SCI-Expanded)
549. **Measurement of the W+W- and ZZ production cross sections in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, vol.721, pp.190-211, 2013 (SCI-Expanded)
550. **Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC**
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, vol.87, no.7, 2013 (SCI-Expanded)
551. **Search for pair-produced dijet resonances in four-jet final states in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.14, 2013 (SCI-Expanded)
552. **Search for Z' resonances decaying to $t(\bar{t})$ in dilepton plus jets final states in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.7, 2013 (SCI-Expanded)
553. **Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network**
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, vol.87, no.7, 2013 (SCI-Expanded)
554. **Identification of b-quark jets with the CMS experiment**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF INSTRUMENTATION, vol.8, 2013 (SCI-Expanded)
555. **Measurement of the $t(\bar{t})$ production cross section in the tau plus jets channel in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.4, 2013 (SCI-Expanded)
556. **Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76,$ 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2013 (SCI-Expanded)
557. **Measurement of the $X(3872)$ production cross section via decays to $J/\psi \pi^+ \pi^-$ in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2013 (SCI-Expanded)
558. **Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.720, pp.309-329, 2013 (SCI-Expanded)
559. **Search for contact interactions using the inclusive jet $p(T)$ spectrum in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)
560. **Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV and $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.720, pp.63-82, 2013 (SCI-Expanded)
561. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at $\sqrt{s}=7$ TeV with lepton plus jets 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, vol.720, pp.83-104, 2013 (SCI-Expanded)
562. **Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy 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., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)
563. **Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2013 (SCI-Expanded)
564. **Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2013 (SCI-Expanded)
565. **Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J.,

- Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
566. **Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)
567. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations 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., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)
568. **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., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)
569. **Search for contact interactions in mu(+)mu(-) 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., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.3, 2013 (SCI-Expanded)
570. **Search for exotic resonances decaying into WZ/ZZ 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., Eroev J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2013 (SCI-Expanded)
571. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2013 (SCI-Expanded)
572. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-bar l(+)l(-) final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, pp.1208-1228, 2013 (SCI-Expanded)
573. **Search for a W ' boson decaying to a bottom quark and a top quark in pp collisions at root s = 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.718, pp.1229-1251, 2013 (SCI-Expanded)
574. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, pp.1252-1272, 2013 (SCI-Expanded)
575. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN = 2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.4, 2013 (SCI-Expanded)
576. **Evidence for Associated Production of a Single Top Quark and W Boson 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., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.2, 2013 (SCI-Expanded)

577. **Forward-backward asymmetry of Drell-Yan 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., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.718, no.3, pp.752-772, 2013 (SCI-Expanded)
578. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
Chatrchyan S., Collaboration C. M. S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, no.3, pp.815-840, 2013 (SCI-Expanded)
579. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, no.3, pp.795-814, 2013 (SCI-Expanded)
580. **Observation of a diffractive contribution to dijet production 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., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)
581. **Studies of jet quenching using isolated-photon plus jet correlations 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., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.718, no.3, pp.773-794, 2013 (SCI-Expanded)
582. **Measurement of the elliptic anisotropy of charged particles produced 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., Eroev J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW C, vol.87, no.1, 2013 (SCI-Expanded)
583. **Measurement of the ZZ production cross section and search for anomalous couplings in 212l' 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., Eroev J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2013 (SCI-Expanded)
584. **Search for heavy quarks decaying into a top quark and a W or Z boson using lepton plus jets events in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2013 (SCI-Expanded)
585. **Search for Heavy Neutrinos and W-R Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.26, 2012 (SCI-Expanded)
586. **Study of the Dijet Mass Spectrum in pp -> W + jets Events at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.25, 2012 (SCI-Expanded)
587. **Combined search for the quarks of a sequential fourth generation**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.86, no.11, 2012 (SCI-Expanded)

588. **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, vol.718, no.2, pp.307-328, 2012 (SCI-Expanded)
589. **Search for three-jet resonances in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, no.2, pp.329-347, 2012 (SCI-Expanded)
590. **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., Ero J., Fabjan C., et al.
PHYSICS LETTERS B, vol.718, no.2, pp.348-368, 2012 (SCI-Expanded)
591. **Measurement of the relative prompt production rate of $\chi(c2)$ and $\chi(c1)$ in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.12, 2012 (SCI-Expanded)
592. **Measurement of the single-top-quark t-channel cross section in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
593. **Search for resonant $t(\bar{t})$ production in lepton plus jets events in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
594. **Observation of Z decays to four leptons with the CMS detector at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
595. **Measurement of the top-quark mass in $t(\bar{t})$ events with lepton plus jets final states in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
596. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2012 (SCI-Expanded)
597. **Observation of Sequential ϵ Suppression in PbPb Collisions**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.22, 2012 (SCI-Expanded)
598. **Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2012 (SCI-Expanded)
599. **Search for electroweak production of charginos and neutralinos using leptonic final states in pp**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2012 (SCI-Expanded)

600. **A search for a doubly-charged Higgs boson 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.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.11, 2012 (SCI-Expanded)

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

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, vol.72, no.11, 2012 (SCI-Expanded)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2012 (SCI-Expanded)

603. **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. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2012 (SCI-Expanded)

604. **Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2012 (SCI-Expanded)

605. **Search for charge-asymmetric production of W ' bosons in t(t)over-bar 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, vol.717, pp.351-370, 2012 (SCI-Expanded)

606. **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, vol.109, no.17, 2012 (SCI-Expanded)

607. **Search for heavy Majorana neutrinos in mu(+/-)mu(+/-) + jets and e(+/-)e(+/-) + jets events in pp collisions at root s=7 TeV**

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

PHYSICS LETTERS B, vol.717, pp.109-128, 2012 (SCI-Expanded)

608. **Inclusive and differential measurements of the t(t)over-bar 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, vol.717, pp.129-150, 2012 (SCI-Expanded)

609. **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., et al.

- Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.15, 2012 (SCI-Expanded)
610. **Search for a W' or Techni-rho Decaying into WZ in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.14, 2012 (SCI-Expanded)
611. **Tests of CMS hadron forward calorimeter upgrade readout box prototype**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Mossolov V., Shumeiko N., Cornelis T., Ochesanu S., Roland B., Staykova Z., et al.
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
612. **Measurement of the top-quark mass in $t(\bar{t})$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)
613. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s}=0.9, 2.76, \text{ and } 7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)
614. **Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2012 (SCI-Expanded)
615. **Measurement of jet fragmentation into charged particles in pp and $PbPb$ collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2012 (SCI-Expanded)
616. **Performance of CMS muon reconstruction in pp collision events at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
617. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
PHYSICAL REVIEW D, vol.86, no.5, 2012 (SCI-Expanded)
618. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.12, 2012 (SCI-Expanded)
619. **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**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.716, no.2, pp.260-284, 2012 (SCI-Expanded)
620. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C.,

- Friedl M., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.103-121, 2012 (SCI-Expanded)
621. **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., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.30-61, 2012 (SCI-Expanded)
622. **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, vol.716, no.1, pp.82-102, 2012 (SCI-Expanded)
623. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.11, 2012 (SCI-Expanded)
624. **Search for anomalous t(t)over-bar production in the highly-boosted all-hadronic final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2012 (SCI-Expanded)
625. **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. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2012 (SCI-Expanded)
626. **Search for a fermiophobic Higgs boson in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2012 (SCI-Expanded)
627. **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., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.9, 2012 (SCI-Expanded)
628. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.715, pp.66-87, 2012 (SCI-Expanded)
629. **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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.7, 2012 (SCI-Expanded)
630. **Measurement of the Lambda(b) cross section and the (Lambda)over-bar(b) to Lambda(b) ratio with J/psi Lambda 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., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.714, pp.136-157, 2012 (SCI-Expanded)
631. **Search for narrow resonances in dilepton mass spectra 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., Eroe J., Fabjan C., Friedl M., et al.

- PHYSICS LETTERS B, vol.714, pp.158-179, 2012 (SCI-Expanded)
632. **Search for leptonic decays of W^\pm bosons in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2012 (SCI-Expanded)
633. **Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2012 (SCI-Expanded)
634. **Measurement of the underlying event activity in pp collisions at root $s=0.9$ and 7 TeV with the novel jet-area/median approach**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2012 (SCI-Expanded)
635. **Search for stopped long-lived particles produced in pp collisions at root $s=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2012 (SCI-Expanded)
636. **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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.713, pp.408-433, 2012 (SCI-Expanded)
637. **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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.2, 2012 (SCI-Expanded)
638. **Search for a light charged Higgs boson in top quark decays 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2012 (SCI-Expanded)
639. **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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.26, 2012 (SCI-Expanded)
640. **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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.713, no.2, pp.68-90, 2012 (SCI-Expanded)
641. **Observation of a New $\Xi(b)$ Baryon**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.25, 2012 (SCI-Expanded)
642. **Measurement of the $t(\bar{t})$ 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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.85, no.11, 2012 (SCI-Expanded)
643. **Jet momentum dependence of jet quenching in PbPb collisions at root $s_{NN}=2.76$ TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.712, no.3, pp.176-197, 2012 (SCI-Expanded)
644. **Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
645. **Measurement of the cross section for production of $b(b)\overline{b}$ decaying to muons 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
646. **Search for anomalous production of multilepton 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
647. **Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
648. **Measurement of the mass difference between top and antitop quarks**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
649. **Measurement of the Z/γ^* plus b-jet 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2012 (SCI-Expanded)
650. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics 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.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.5, 2012 (SCI-Expanded)
651. **Search for heavy bottom-like quarks in 4.9 fb(-1) of pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2012 (SCI-Expanded)
652. **Search for large extra dimensions in dimuon and dielectron 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.
PHYSICS LETTERS B, vol.711, no.1, pp.15-34, 2012 (SCI-Expanded)
653. **Search for quark compositeness in dijet angular distributions from pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2012 (SCI-Expanded)
654. **Suppression of non-prompt J/ψ , prompt J/ψ , and Upsilon(1S) 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2012 (SCI-Expanded)

655. **Search for the standard model Higgs boson decaying into two photons 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, vol.710, no.3, pp.403-425, 2012 (SCI-Expanded)
656. **Inclusive b-jet production in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2012 (SCI-Expanded)
657. **Search for B-S(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) decays**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2012 (SCI-Expanded)
658. **Search for the standard model Higgs boson decaying to W+W- in the fully leptonic 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, vol.710, no.1, pp.91-113, 2012 (SCI-Expanded)
659. **Combined results of searches for the standard model Higgs boson 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, vol.710, no.1, pp.26-48, 2012 (SCI-Expanded)
660. **Search for the Standard Model Higgs Boson in the Decay Channel H -> ZZ -> 4l 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, vol.108, no.11, 2012 (SCI-Expanded)
661. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
 PHYSICS LETTERS B, vol.709, pp.28-49, 2012 (SCI-Expanded)
662. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, vol.108, no.11, 2012 (SCI-Expanded)
663. **THE PASSIVE CABLE MODELING AND SIMULATION OF THE NEURON**
 COŞKUN Ö., KAHRİMAN M., ÇÖMLEKÇİ S., ÖZKORUCUKLU S.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.1, pp.1-9, 2012 (SCI-Expanded)
664. **Search for the standard model Higgs boson in the H -> ZZ -> l(+)l(-)tau(+)tau(-) 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.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2012 (SCI-Expanded)
665. **Search for the standard model Higgs boson in the H -> ZZ -> 2l2v 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.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2012 (SCI-Expanded)

666. **Study of high-p(T) charged particle suppression in PbPb compared to pp collisions at root s(NN)=2.76 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.72, no.3, 2012 (SCI-Expanded)
667. **Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at root(s)=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)
668. **J/psi and psi(2S) production in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2012 (SCI-Expanded)
669. **Inclusive search for squarks and gluinos in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
670. **Jet production rates in association with W and Z bosons in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2012 (SCI-Expanded)
671. **Performance of tau-lepton reconstruction and identification in CMS**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
672. **Measurement of the production cross section for pairs of isolated photons in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2012 (SCI-Expanded)
673. **Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.72, no.1, 2012 (SCI-Expanded)
674. **Exclusive gamma gamma -> mu(+)mu(-) production in proton-proton collisions at root s=7TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2012 (SCI-Expanded)
675. **Search for a Vectorlike Quark with Charge 2/3 in t plus Z Events from pp Collisions at root s 7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, vol.107, no.27, 2011 (SCI-Expanded)
676. **Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, vol.84, no.11, 2011 (SCI-Expanded)
677. **Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C.,

- Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.22, 2011 (SCI-Expanded)
678. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.9, 2011 (SCI-Expanded)
679. **Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.20, 2011 (SCI-Expanded)
680. **Search for $B_s(0) \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$ Decays in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.19, 2011 (SCI-Expanded)
681. **Determination of jet energy calibration and transverse momentum resolution in CMS**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, vol.6, 2011 (SCI-Expanded)
682. **Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}=0.9$ and 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2011 (SCI-Expanded)
683. **Search for physics beyond the standard model using multilepton signatures in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.704, no.5, pp.411-433, 2011 (SCI-Expanded)
684. **Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.704, no.3, pp.123-142, 2011 (SCI-Expanded)
685. **A search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.704, no.3, pp.143-162, 2011 (SCI-Expanded)
686. **Measurement of $B\bar{B}$ angular correlations based on secondary vertex reconstruction at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.3, 2011 (SCI-Expanded)
687. **Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s}=7$ TeV with the CMS experiment**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2011 (SCI-Expanded)
688. **Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)

689. **Measurement of the B-s(0) Production Cross Section with B-s(0) -> J/psi phi Decays in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)
690. **Measurement of the Inclusive Jet 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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.13, 2011 (SCI-Expanded)
691. **Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.703, no.3, pp.246-266, 2011 (SCI-Expanded)
692. **Measurement of the underlying event activity at the LHC with root s=7 TeV and comparison with root s=0.9 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2011 (SCI-Expanded)
693. **Measurement of the t(t)over-bar production cross section in pp collisions at root s=7 TeV using the kinematic properties of events with leptons and jets**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.9, 2011 (SCI-Expanded)
694. **Missing transverse energy performance of the CMS detector**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, vol.6, 2011 (SCI-Expanded)
695. **Measurement of the t-Channel Single Top Quark 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., Eroee J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.9, 2011 (SCI-Expanded)
696. **Observation and studies of jet quenching in PbPb collisions at sqrt(sNN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
Physical Review C - Nuclear Physics, vol.84, no.2, 2011 (SCI-Expanded)
697. **Charged particle transverse momentum spectra in pp collisions at root s=0.9 and 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2011 (SCI-Expanded)
698. **Search for same-sign top-quark pair production at root s=7 TeV and limits on flavour changing neutral currents in the top sector**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2011 (SCI-Expanded)
699. **Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at root s(NN)=2.76 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., Fruehwirth R., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2011 (SCI-Expanded)
700. **Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=2.76 TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.5, 2011 (SCI-Expanded)
701. **Measurement of W gamma and Z gamma production in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.701, no.5, pp.535-555, 2011 (SCI-Expanded)
702. **Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.2, 2011 (SCI-Expanded)
703. **Search for a W' boson decaying to a muon and a neutrino in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.701, no.2, pp.160-179, 2011 (SCI-Expanded)
704. **Long-range and short-range dihadron angular correlations in central PbPb collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2011 (SCI-Expanded)
705. **Measurement of the t(t)over-bar production cross section and the top quark mass in the dilepton 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2011 (SCI-Expanded)
706. **Search for light resonances decaying into pairs of muons as a signal of new physics**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2011 (SCI-Expanded)
707. **Search for supersymmetry in events with b jets and missing transverse momentum at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2011 (SCI-Expanded)
708. **Measurement of the B0 production cross section in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
Physical Review Letters, vol.106, no.25, 2011 (SCI-Expanded)
709. **Upsilon production cross section in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review D - Particles, Fields, Gravitation and Cosmology, vol.83, no.11, 2011 (SCI-Expanded)
710. **Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.700, no.3-4, pp.187-206, 2011 (SCI-Expanded)
711. **Search for neutral minimal supersymmetric standard model higgs bosons decaying to tau pairs 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.
Physical Review Letters, vol.106, no.23, 2011 (SCI-Expanded)
712. **Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2011 (SCI-Expanded)
713. **Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2011 (SCI-Expanded)
714. **Study of Z boson production in PbPb 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.
Physical Review Letters, vol.106, no.21, 2011 (SCI-Expanded)
715. **Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in events with two photons and missing transverse energy**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
Physical Review Letters, vol.106, no.21, 2011 (SCI-Expanded)
716. **Measurement of dijet angular distributions and search for quark compositeness in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Fabjan C., Friedl M., Fruehwirth R., Ghete V. M., et al.
Physical Review Letters, vol.106, no.20, 2011 (SCI-Expanded)
717. **Search for pair production of first-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.20, 2011 (SCI-Expanded)
718. **Search for pair production of second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.20, 2011 (SCI-Expanded)
719. **First measurement of hadronic event shapes in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.699, no.1-2, pp.48-67, 2011 (SCI-Expanded)
720. **Measurement of $W+W-$ production and search for the Higgs boson 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.699, no.1-2, pp.25-47, 2011 (SCI-Expanded)
721. **A combined approach to the simulation of ionizing radiation effects in silicon devices**
Ozdemir T., Meroli S., Pilicer E., Mencaroni A., Alpat B., Ozkorucuklu S., Passeri D., Placidi P., Servoli L.
JOURNAL OF INSTRUMENTATION, vol.6, 2011 (SCI-Expanded)
722. **Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s}=0.9$ and 7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2011 (SCI-Expanded)

723. **Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.698, no.3, pp.196-218, 2011 (SCI-Expanded)
724. **Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at $s=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.698, no.1, pp.21-39, 2011 (SCI-Expanded)
725. **Dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.12, 2011 (SCI-Expanded)
726. **Search for microscopic black hole signatures at the Large Hadron Collider**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.697, no.5, pp.434-453, 2011 (SCI-Expanded)
727. **Measurement of the B^+ production cross section in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.11, 2011 (SCI-Expanded)
728. **Effects of 50 Hertz-1 mT magnetic field on action potential in isolated rat sciatic nerve**
COŞKUN Ö., NAZIROĞLU M., ÇÖMLEKÇİ S., Ozkorucuklu S.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.27, no.2, pp.127-132, 2011 (SCI-Expanded)
729. **Measurement of the isolated prompt photons production cross section in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.8, 2011 (SCI-Expanded)
730. **First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.695, no.5, pp.424-443, 2011 (SCI-Expanded)
731. **Search for stopped gluinos in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.106, no.1, 2011 (SCI-Expanded)
732. **Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.3, 2011 (SCI-Expanded)
733. **Search for resonances in the dilepton mass distribution 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.
Journal of High Energy Physics, vol.2011, no.5, 2011 (SCI-Expanded)

734. **Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
European Physical Journal C, vol.71, no.3, pp.1-26, 2011 (SCI-Expanded)
735. **Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV The CMS collaboration**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.1, 2011 (SCI-Expanded)
736. **Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.3, 2011 (SCI-Expanded)
737. **Search for a heavy bottom-like quark 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.701, no.2, pp.204-223, 2011 (SCI-Expanded)
738. **Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36,$ and 7TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.1, 2011 (SCI-Expanded)
739. **Search for physics beyond the standard model in opposite-sign dilepton events 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.
Journal of High Energy Physics, vol.2011, no.6, 2011 (SCI-Expanded)
740. **Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeVs**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2011, no.5, 2011 (SCI-Expanded)
741. **Measurement of the inclusive Z cross section via decays to tau pairs 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.
Journal of High Energy Physics, vol.2011, no.8, 2011 (SCI-Expanded)
742. **Measurement of the lepton charge asymmetry in inclusive W production 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.
Journal of High Energy Physics, vol.2011, no.4, 2011 (SCI-Expanded)
743. **Search for large extra dimensions in the diphoton final state at the Large Hadron Collider**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
Journal of High Energy Physics, vol.2011, no.5, 2011 (SCI-Expanded)
744. **Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at $s = 7$ 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, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.702, no.5, pp.336-354, 2011 (SCI-Expanded)
745. **Search for quark compositeness with the dijet centrality ratio in pp collisions at $\sqrt{s} = 7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M.,

- Fruehwirth R., et al.
Physical Review Letters, vol.105, no.26, 2010 (SCI-Expanded)
746. **CMS tracking performance results from early LHC operation**
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, vol.70, no.4, pp.1165-1192, 2010 (SCI-Expanded)
747. **Search for dijet resonances in 7 TeV pp collisions at CMS**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.105, no.21, 2010 (SCI-Expanded)
748. **The Equilibrium and Pre-equilibrium Triton Emission Spectra of Some Target Nuclei for (n,x) Reactions up to 45 MeV Energy**
Tel E., KAPLAN A., Aydin A., Ozkorucuklu S., Buyukuslu H., Yildirim G.
JOURNAL OF FUSION ENERGY, vol.29, no.4, pp.312-316, 2010 (SCI-Expanded)
749. **First measurement of Bose-Einstein correlations in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV at the LHC**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.105, no.3, 2010 (SCI-Expanded)
750. **Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=7\text{TeV}$**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physical Review Letters, vol.105, no.2, 2010 (SCI-Expanded)
751. **Commissioning of the CMS experiment and the cosmic run at four tesla**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
752. **Performance and operation of the CMS electromagnetic calorimeter**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
753. **Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
754. **Performance of the CMS drift tube chambers with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
755. **CMS data processing workflows during an extended cosmic ray run**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
756. **Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroo J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
757. **Performance of CMS muon reconstruction in cosmic-ray events**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M.,

- Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
758. **Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
759. **Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
760. **Alignment of the CMS silicon tracker during commissioning with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
761. **Performance of the CMS cathode strip chambers with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
762. **Performance study of the CMS barrel resistive plate chambers with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
763. **Performance of the CMS drift-tube chamber local trigger with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
764. **Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
765. **Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
766. **Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
767. **Measurement of the muon stopping power in lead tungstate**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
768. **Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
769. **Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroee J., et al.

- JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
770. **Time reconstruction and performance of the CMS electromagnetic calorimeter**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
771. **Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
772. **Alignment of the CMS muon system with cosmic-ray and beam-halo muons**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
773. **Commissioning of the CMS High-Level Trigger with cosmic rays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Adam W., Arnold B., Bergauer H., Bergauer T., Dragicevic M., Eichberger M., Eroe J., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (SCI-Expanded)
774. **Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at root s=0.9 and 2.36 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Friedl M., Fruehwirth R., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2010 (SCI-Expanded)
775. **Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
Journal of High Energy Physics, vol.2010, no.9, 2010 (SCI-Expanded)
776. **First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
European Physical Journal C, vol.70, no.3, pp.555-572, 2010 (SCI-Expanded)
777. **Measurement of the charge ratio of atmospheric muons with the CMS detector**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.692, no.2, pp.83-104, 2010 (SCI-Expanded)
778. **Nuclear dependence of charm production**
Blanco-Covarrubias A., Engelfried J., Akgun U., Alkhazov G., Amaro-Reyes J., Atamantchouk A. G., Ayan A. S., Balatz M. Y., Bondar N. F., Cooper P. S., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.64, no.4, pp.637-644, 2009 (SCI-Expanded)
779. **The CMS barrel calorimeter response to particle beams from 2 to 350 GeV/c**
Abdullin S., Abramov V., Acharya B., Adam N., Adams M., Adzic P., Akchurin N., Akgun U., Albayrak E., Alemany-Fernandez R., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.60, no.3, pp.359-373, 2009 (SCI-Expanded)
780. **Design, performance, and calibration of the CMS hadron-outer calorimeter**
Abdullin S., Abramov V., Acharya B., Adam N., Adams M., Akchurin N., Akgun U., Albayrak E., Anderson E. W., Antchev G., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.57, no.3, pp.653-663, 2008 (SCI-Expanded)
781. **First observation of the Cabibbo-suppressed decays $\Xi(+)(c) \rightarrow \Sigma(+)\pi(-)\pi(+)$ and $\Xi(+)(c) \rightarrow \Sigma(-)\pi(+)\pi(+)$ and measurement of their branching ratios**
Vazquez-Jauregui E., Engelfried J., Akgun U., Alkhazov G., Amaro-Reyes J., Atamantchouk A. G., Ayan A. S., Balatz M. Y., Blanco-Covarrubias A., Bondar N. F., et al.

- PHYSICS LETTERS B, vol.666, no.4, pp.299-304, 2008 (SCI-Expanded)
782. **The CMS experiment at the CERN LHC**
 Chatrchyan S., Hmayakyan G., Khachatryan V., Sirunyan A. M., Adam W., Bauer T., Bergauer T., Bergauer H., Dragicevic M., Eroee J., et al.
 JOURNAL OF INSTRUMENTATION, vol.3, 2008 (SCI-Expanded)
783. **Design, performance, and calibration of CMS hadron-barrel calorimeter wedges**
 Abdullin S., Abramov V., Acharya B., Adams M., Akchurin N., Akgun U., Anderson E. W., Antchev G., Ayan S., Aydin S., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.55, no.1, pp.159-171, 2008 (SCI-Expanded)
784. **Design, performance, and calibration of CMS forward calorimeter wedges**
 Abdullin S., Abramov V., Acharya B., Adams M., Akchurin N., Akgun U., Anderson E. W., Antchev G., Arcidy M., Ayan S., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.53, no.1, pp.139-166, 2008 (SCI-Expanded)
785. **CMS physics technical design report, volume II: Physics performance**
 Bayatian G. L., Chatrchyan S., Hmayakyan G., Sirunyan A. M., Adam W., Bergauer T., Dragicevic M., Eroee J., Friedl M., Fruehwirth R., et al.
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.34, no.6, pp.995-1579, 2007 (SCI-Expanded)
786. **Multipurpose high sensitivity radiation detector: Terradex**
 Alpat B., Aisa D., Bizzarri M., Blasko S., Esposito G., Farnesini L., Fiori E., Papi A., Postolache V., Renzi F., et al.
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.574, no.3, pp.479-492, 2007 (SCI-Expanded)
787. **Confirmation of the doubly charmed baryon Epsilon(+)(cc)(3520) via its decay to pD(+)(K)(-)**
 Ocherashvili A., Moinester M., Russ J., Engelfried J., Torres I., Akgun U., Alkhazov G., Amaro-Reyes J., Atamantchouk A., Ayan A., et al.
 PHYSICS LETTERS B, vol.628, pp.18-24, 2005 (SCI-Expanded)
788. **Observation of a narrow charm-strange meson D-sJ(+)(2632)-> D-s(+)(eta) and (DK+)-K-0**
 Evdokimov A., Akgun U., Alkhazov G., Amaro-Reyes J., Atamantchouk A., Ayan A., Balatz M., Bondar N., Cooper P., Dauwe L., et al.
 PHYSICAL REVIEW LETTERS, vol.93, no.24, 2004 (SCI-Expanded)
789. **Upper limit on the decay Sigma(1385)(-) -> Sigma(-)gamma and cross section for gamma Sigma(-) -> Lambda pi(-)**
 Molchanov V., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Casey D., Cooper P., Dauwe L., Davidenko G., Dersch U., et al.
 PHYSICS LETTERS B, vol.590, pp.161-169, 2004 (SCI-Expanded)
790. **Production asymmetry of D-s from 600 GeV/c Sigma(-) and pi(-) beam**
 Kaya M., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., Davidenko G., Dersch U., Dolgolenko A., et al.
 PHYSICS LETTERS B, vol.558, pp.34-40, 2003 (SCI-Expanded)
791. **First observation of the doubly charmed baryon Xi(+)(cc)**
 Mattson M., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., Davidenko G., Dersch U., Dolgolenko A., et al.
 PHYSICAL REVIEW LETTERS, vol.89, no.11, 2002 (SCI-Expanded)
792. **First measurement of pi(-)e -> pi(-)e gamma pion virtual compton scattering**
 Ocherashvili A., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., Davidenko G., Dersch U., Dolgolenko A., et al.
 PHYSICAL REVIEW C, vol.66, no.3, 2002 (SCI-Expanded)
793. **Hadronic production of Lambda c from 600 GeV/c pi(-), Sigma(-) and p beams**
 Garcia F., Garcia F., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., Davidenko G., Dersch U., et al.
 PHYSICS LETTERS B, vol.528, pp.49-57, 2002 (SCI-Expanded)
794. **Measurement of the D-s(+/-) lifetime**

- Iori M., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., Davidenko G., Dersch U., Dolgolenko A., et al.
PHYSICS LETTERS B, vol.523, pp.22-28, 2001 (SCI-Expanded)
795. **Measurement of the Sigma(-) charge radius by Sigma(-)-electron elastic scattering**
Eschrich I., Kruger H., Simon J., Vorwalter K., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Cooper P., Dauwe L., et al.
PHYSICS LETTERS B, vol.522, pp.233-239, 2001 (SCI-Expanded)
796. **Radiative decay width of the a(2)(1320)(-) meson**
Molchanov V., Alkhazov G., Atamantchouk A., Balatz M., Bondar N., Casey D., Cooper P., Dauwe L., Davidenko G., Dersch U., et al.
PHYSICS LETTERS B, vol.521, pp.171-180, 2001 (SCI-Expanded)
797. **Total cross section measurements with pi(-), Sigma(-) and protons on nuclei and nucleons around 600 GeV/c**
Dersch U., Akchurin N., Andreev V., Atamantchouk A., Aykac M., Balatz M., Bondar N., Bravar A., Cooper P., Dauwe L., et al.
NUCLEAR PHYSICS B, vol.579, pp.277-312, 2000 (SCI-Expanded)
798. **Observation of the Cabibbo-suppressed decay Xi(+)(c) -> pK(-)pi(+)**
Jun S., Akchurin N., Andreev V., Atamantchouk A., Aykac M., Balatz M., Bondar N., Bravar A., Cooper P., Dauwe L., et al.
PHYSICAL REVIEW LETTERS, vol.84, no.9, pp.1857-1861, 2000 (SCI-Expanded)

Articles Published in Other Journals

- Portable Acceleration of CMS Computing Workflows with Coprocessors as a Service**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Computing and Software for Big Science, vol.8, no.1, 2024 (Scopus)
- Desktop Cosmic Muon Detector and First Observation Results**
Güver T., Özkorucuklu S., Bostancı Güver Z. F., Gürkan G., Polatoğlu A., Yeşilyaprak C.
Turkish Journal of Astronomy and Astrophysics, vol.0, no.0, 2023 (Conference Book)
- A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution**
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Valle A. E. D., Flechl M., Frühwirth R., et al.
Computing and Software for Big Science, vol.4, no.1, 2020 (Scopus)
- The Passive Cable Modeling and Simulating of the Axon With Matlab(7.0.4)/Simulink**
COŞKUN Ö., KAHRİMAN M., ÇÖMLEKÇİ S., ÖZKORUCUKLU S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.16, no.3, pp.283-289, 2010 (ESCI)
- Influence of a 50 Hz-1 mT Magnetic Field on Human Median Nerve**
COŞKUN Ö., ÇÖMLEKÇİ S., KOYUNCUOĞLU H. R., ÖZKORUCUKLU S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.15, no.2, pp.215-220, 2009 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- Taşınabilir Kozmik Müon Dedektörü ve Müon Akı Oranının Güneş Aktivitesi İle Korelasyonu**
Dağ M. K., Güver T., Özkorucuklu S., Gürkan G., Bostancı Güver Z. F., Polatoğlu A., Yeşilyaprak C.
22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022, pp.1-2
- Geant4 study for geometry of quartz fiber luminometer at CMS HL-LHC,**

SUNAR ÇERÇİ D., ÇERÇİ S., AYDİLEK O., ÖZKORUCUKLU S., ZORBİLMEZ Ç., Selivanova D., Popova E., Ilyin A.
LXXI International conference "NUCLEUS ? 2021. Nuclear physics and elementary particle physics. Nuclear physics technologies, Russia, 20 - 25 September 2021

3. **Geant4 quartz fiber simulations as part of luminometer development for CMS**
Selivanova D., Popova E., Ilyin A., Aydılek O., ÖZKORUCUKLU S., Cerci S., Sunar Cerci D.
5th International Conference on Particle Physics and Astrophysics, ICPPA 2020, Moscow, Virtual, Russia, 5 - 09 October 2020, vol.1690
4. **Geant4 Simulations of a Scintillator and SiPM System for Medical Applications**
Litifu ., ALPAT A. B., Çonka T., Kaplanoğlu T., Yıldız A., ÖZKORUCUKLU S.
20th International Workshop on Radiation Imaging Detectors, Sundsvall, Sweden, 24 - 28 June 2018, pp.45
5. **DOSE PROFILE SIMULATION FOR MEDICAL LINEAR ACCELERATOR S WITH FLUKA**
Aydoğdu G., ÖZKORUCUKLU S., Öğretici A.
TPS 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.256
6. **THE DETERMINATION OF RADON 222 IN SEMICONDUCTOR RADIATION DETECTOR**
Özdemir F. B., Selçuk B., ÖZKORUCUKLU S., Özdemir T.
TPS 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.198
7. **GEANT4 SIMULATION OF COSMIC RAY MUON TOMOGRAPHY FOR ANTI TERRORISM**
Litifu M., ÖZKORUCUKLU S., Alpat B.
TPS 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.196
8. **MEASUREMENT OF THE EMITTED RADIATION THAT TECHNETIUM 99M THE RADIOACTIVE ISOTOPE IS INSIDE OF SERUM WITH FLUKA SIMULATION METHOD**
Aydoğdu G., ÖZKORUCUKLU S.
9th INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION, İstanbul, Turkey, 24 - 27 August 2015, pp.388
9. **HIGH ENERGY COSMIC MUONS INTERACTION WITH MATTER AND GEANT4 SIMULATION**
Kaynak B., ÖZKORUCUKLU S.
9th INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION, İstanbul, Turkey, 24 - 27 August 2015, pp.391
10. **Turkish accelerator center: The status and road map**
AKSOY A., ÇAKIR O., YILDIZ H., YAVAŞ Ö., AKKUŞ B., ÖZKORUCUKLU S., ŞAHİN YALÇIN L., Nergiz Z., Aksakal H., Algin E.
5th International Particle Accelerator Conference, IPAC 2014, Dresden, Germany, 15 - 20 June 2014, pp.2921-2923
11. **The status of turkish accelerator center project**
Ozkorucuklu S., Yavas O., Cakir O., Ciftci A., Ciftci R., Aksoy A., Ketenoglu B., Zengin K., Akkus B., Arikan P., et al.
1st International Particle Accelerator Conference, IPAC 2010, Kyoto, Japan, 23 - 28 May 2010, pp.4419-4421
12. **Biological Effect of Microwave on the Nervous System**
COŞKUN Ö., ÇÖMLEKÇİ S., ÖZKORUCUKLU S.
8th WSEAS International Conference on Applied Informatics and Communications, Rhodes, Greece, 20 - 22 August 2008, pp.247-249
13. **Charm hadroproduction results from Selex**
Iori M., Akchurin N., Andreev V., Atamantchouk A., Aykac M., Balatz M., Bondar N., Bravar A., Cooper P., Dauwe L., et al.
International Europhysics Conference on High Energy Physics (HEP 99), Tampere, Finland, 15 - 21 July 1999, pp.385-388
14. **A beam hodoscope based on a scintillating-fiber array with multianode photomultiplier readout**
Dreossi D., Akchurin N., Bravar A., Giacomich R., Gregori M., Gulmez E., Iori M., Kaya M., Lamberto A., Newsom C., et al.
SCIFI 97 Conference on Scintillating Fiber Detectors, Indiana, United States Of America, 2 - 06 November 1997, vol.450, pp.286-293

Academic and Administrative Experience

2014 - 2016	Head of Department	İstanbul Üniversitesi, Faculty of Science, Fizik
2003 - 2013	Head of Department	Süleyman Demirel Üniversitesi, Fen Edebiyat Fakültesi, Fizik

Courses

İleri Parçacık Fiziği I, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017
İleri Parçacık Fiziği II, Doctorate, 2018 - 2019, 2017 - 2018
General Physics, Undergraduate, 2016 - 2017
Temel Tanecikler II, Undergraduate, 2016 - 2017
Bilgisayar Programlama I, Undergraduate, 2016 - 2017
İleri Parçacık Fiziği II, Doctorate, 2016 - 2017
Elementary Particles, Undergraduate, 2014 - 2015
İş Sağlığı ve Güvenliği, Undergraduate, 2014 - 2015
Bilgisayar Programlama I, Undergraduate, 2013 - 2014
Elektrodinamik Teori, Postgraduate, 2013 - 2014

Advising Theses

ÖZKORUCUKLU S., Plastik sintilatörler ile radyasyon ölçümü ve geant ile benzetim çalışmaları, Postgraduate, B.Kaynak(Student), 2018
ÖZKORUCUKLU S., Bes-III deneyinde j/ψ bozunum kanalının analizi ile rezonansların araştırılması, Doctorate, O.Buğra(Student), 2017
ÖZKORUCUKLU S., Türk Hızlandırıcı Merkezi TARLA tesisi radyasyon güvenlik sistemi, Doctorate, K.Kayaalp(Student), 2016
ÖZKORUCUKLU S., Süper iletken parçacık hızlandırıcı tesislerinde düşük seviyeli radyo frekansı sistemlerinin fiziği ve tasarımı, Postgraduate, A.Gürol(Student), 2014
ÖZKORUCUKLU S., Türk hızlandırıcı merkezi serbest elektron lazeri tesisi için undulatör ve rezonatör optimizasyonu, Doctorate, H.Tugay(Student), 2014
ÖZKORUCUKLU S., Türk hızlandırıcı merkezi (THM) serbest elektron lazeri için elektron demet hattı tasarımı ve demet parametrelerinin belirlenmesi, Postgraduate, M.Şekerci(Student), 2013
ÖZKORUCUKLU S., Türk Hızlandırıcı Merkezi Serbest Elektron Lazeri için Elektron Demet Diagnostik Sistemi Ön Çalışması, Postgraduate, S.Ceylan(Student), 2011
ÖZKORUCUKLU S., Yüksek Enerji Fiziği Parçacık Detektörlerinde Silikon Şerit Detektörün GEANT4 Simülasyonu ve ROOT Nesneye Yönelik Veri Analiz Yapısı, Postgraduate, V.Çapalı(Student), 2011
ÖZKORUCUKLU S., Silikon Detektörlerde Benzetim, Modelleme ve Analiz Süreçleri, Doctorate, T.Özdemir(Student), 2011
ÖZKORUCUKLU S., Sinir Dokusu Modeli Analizinde Gerçekçi Model ve Dışsal Manyetik Alandan Etkilenme Mekanizmasının Analizi, Doctorate, Ö.Coşkun(Student), 2009
ÖZKORUCUKLU S., Isparta İli'nde Radon Yoğunluğunun Ölçülmesi ve Haritalandırılması, Postgraduate, H.Akyıldırım(Student), 2006
ÖZKORUCUKLU S., Serbest Elektron Lazeri Parametrelerinin Belirlenmesi, Postgraduate, S.Yiğit(Student), 2006
ÖZKORUCUKLU S., Taramalı Tünelleme Elektron Mikroskop Yapımı ve Temel Bilimlere Uygulamaları, Postgraduate, Ç.Çırak(Student), 2005

Metrics

Publication: 817

Citation (WoS): 46518

Citation (Scopus): 47594

H-Index (WoS): 95

H-Index (Scopus): 101

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Electronic and magnetic devices, microelectronics, Nuclear physics, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

Non Academic Experience

İstanbul Üniversitesi

Süleyman Demirel Üniversitesi

Süleyman Demirel Üniversitesi

Süleyman Demirel Üniversitesi

University of Iowa

Süleyman Demirel Üniversitesi

Gazi Üniversitesi