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Education Information

Doctorate, Cukurova University, Fen Edebiyat Fakültesi/ Fen Bilimleri Enstitüsü, Fizik Bölümü/ Fizik Anabilim Dalı, Turkey 2007 - 2014

Masters (Non-Thesis), Cukurova University, Fen Bilimleri Enstitüsü, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Anabilim Dalı, Ortaöğretim Alan Öğretmenliği (Fizik), Turkey 2006 - 2007

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü/, Fizik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, TUBİTAK ARDEB Programı Bilgilendirme ve Proje Önerisi Yazma Uygulamalı Eğitimi, Çukurova Üniversitesi, 2018

Education Management and Planning, COST (TN1302) Financial Management of EU Projects, University Politehnica of Bucharest, 2018

Education Management and Planning, H2020 Financial Management, Vrije University, 2017

Finance, Focused Group Training-Horizon 2020 Legal and Financial Issues, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Other, Horizon 2020 Intellectual Property Rights Training, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Education Management and Planning, COST BESTPRAC Meeting - Working Group 2 (Finance), COST BESTPRAC Action, 2016

Education Management and Planning, Turkey in Horizon 2020 Project General Training, Turkey in Horizon 2020 Project & TÜBİTAK, 2016

Education Management and Planning, FP7 and Horizon2020 Master of Finance and Administration, Europa Media Trainings, 2015

Education Management and Planning, CERN- Fermilab Hadron Collider Physics Summer School, CERN (Conseil Européen pour la Recherche Nucléaire), 2013

Education Management and Planning, Beyond the Standard Model: Results with the 7 TeV LHC Collision Data, The Abdus

Salam International Centre for Theoretical Physics, 2011

Education Management and Planning, Physics Analysis Tools Course, CERN (Conseil Européen pour la Recherche Nucléaire), 2011

Dissertations

Doctorate, MOMENTUM SCALE CALIBRATION OF MUON TRACKS USING THE MUON PAIRS FROM J/Psi DECAYS AND INSTALLATION AND COMMISSIONING WORK IN CMS AT CERN, Cukurova University, Fen Edebiyat, Fizik Bolumu, 2014

Research Areas

Physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Cukurova University, Rektörlük, Proje Geliştirme Ve Koordinasyon Birimi, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Searches for Pair-Produced Multijet Resonances Using Data Scouting 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 letters, vol.133, no.20, pp.201803, 2024 (SCI-Expanded)
- II. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 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.133, no.19, pp.191902, 2024 (SCI-Expanded)
- III. **Performance of the CMS high-level trigger during LHC Run 2**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Benato L., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., et al.
Journal of Instrumentation, vol.19, no.11, 2024 (SCI-Expanded)
- IV. **Measurement of the polarizations of prompt and non-prompt $[F_{\text{Formula presented}}]$ 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)
- V. **Observation of double $[F_{\text{Formula presented}}]$ meson production in $[F_{\text{Formula presented}}]$ collisions at $[F_{\text{Formula presented}}]$**
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.9, 2024 (SCI-Expanded)
- VI. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ 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 letters, vol.133, no.16, pp.161805, 2024 (SCI-Expanded)
- VII. **Exploring atmospheric neutrino oscillations at ESSnuSB**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B.,

Bouquerel E., Bramati F., et al.

Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)

- VIII. **Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ effective lifetime 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.10, 2024 (SCI-Expanded)
- IX. **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)
- X. **Decoherence in neutrino oscillation at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **Observation of the Formula Presented decay 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.109, no.11, 2024 (SCI-Expanded)
- XIV. **Study of nonstandard interactions mediated by a scalar field at the ESSnuSB experiment**
Aguilar J., Anastasopoulos M., Baussan E., Bhattacharyya A., Bignami A., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Bramati F., et al.
Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- XV. **Observation of the Production of Three Massive Gauge Bosons at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.125, no.15, 2020 (SCI-Expanded)
- XVI. **Search for a light charged Higgs boson in the $H \rightarrow \gamma \gamma \rightarrow c\bar{c}$ channel in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW D, vol.102, no.7, 2020 (SCI-Expanded)
- XVII. **Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.808, 2020 (SCI-Expanded)
- XVIII. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at root $s(NN)=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.125, no.10, 2020 (SCI-Expanded)
- XIX. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^+\mu^-$ 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.

PHYSICS LETTERS B, vol.808, 2020 (SCI-Expanded)

- XX. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, vol.102, no.3, 2020 (SCI-Expanded)
- XXI. **Search for a light pseudoscalar Higgs boson in the boosted mu mu tau tau final state in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2020 (SCI-Expanded)
- XXII. **Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICAL REVIEW D, vol.102, no.3, 2020 (SCI-Expanded)
- XXIII. **Measurements of (tt)over-barH Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.125, no.6, 2020 (SCI-Expanded)
- XXIV. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at root s=8 TeV**
Aad G., Abbott B., Abbott D. C., Abud A. A., Abeling K., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2020 (SCI-Expanded)
- XXV. **Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXVI. **Measurement of the cross section for t(t)over-bar production with additional jets and b jets in pp collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXVII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXVIII. **The production of isolated photons in PbPb and pp collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)
- XXIX. **Search for disappearing tracks in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICS LETTERS B, vol.806, 2020 (SCI-Expanded)

- XXX. **Determination of the strong coupling constant $\alpha(S)(m(Z))$ from measurements of inclusive $W^{+/-}$ and Z boson production cross sections in proton-proton collisions at root $s=7$ and 8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- XXXI. **A measurement of the Higgs boson mass in the diphoton decay channel**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)
- XXXII. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- XXXIII. **Search for dijet resonances using events with three jets in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)
- XXXIV. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- XXXV. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in in pp collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- XXXVI. **Strange hadron production in pp and pPb collisions at root(NN)-N-s=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW C, vol.101, no.6, 2020 (SCI-Expanded)
- XXXVII. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at root $s=13$ TeV and constraints on anomalous quartic couplings**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)
- XXXVIII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.5, 2020 (SCI-Expanded)
- XXXIX. **Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.124, no.20, 2020 (SCI-Expanded)
- XL. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (SCI-Expanded)

- XLII. Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (SCI-Expanded)
- XLIII. D-0-Meson R-AA in PbPb Collisions at $\sqrt{s(NN)}=5.02$ TeV and Elliptic Flow in pPb Collisions at $\sqrt{s(NN)}=8.16$ TeV with CMS**
 Shi Z., 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.647-650, 2019 (SCI-Expanded)
- XLIV. Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**
 Oh G., 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.743-746, 2019 (SCI-Expanded)
- XLV. 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. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- XLVI. Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
 Stojanovic M., 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.395-398, 2019 (SCI-Expanded)
- XLVII. Search for the chiral magnetic effect at the LHC with the CMS experiment**
 Tu Z., 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.527-530, 2019 (SCI-Expanded)
- XLVIII. Multiparticle correlations and higher order harmonics in pPb collisions at $\sqrt{s(NN)}=8.16$ 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)
- XLIX. Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=8$ and 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.
 PHYSICS LETTERS B, vol.789, pp.19-44, 2019 (SCI-Expanded)
- L. Fragmentation of J/psi in jets in pp collisions at $\sqrt{s}=5.02$ TeV**
 Diab B., 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.186-188, 2019 (SCI-Expanded)
- LI. Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 PHYSICS LETTERS B, vol.789, pp.643-665, 2019 (SCI-Expanded)
- LII. Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2018 (SCI-Expanded)
- LIII. Search for Higgsino pair production in pp collisions at $\sqrt{s}=13$ TeV in final states with large**

missing transverse momentum and two Higgs bosons decaying via $H \rightarrow b\bar{b}$

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.97, no.3, 2018 (SCI-Expanded)

- LIII. **Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p plus Pb Collisions at the LHC**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.9, 2018 (SCI-Expanded)
- LIV. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
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.120, no.7, 2018 (SCI-Expanded)
- LV. **Constraint on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root $s=8$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2018 (SCI-Expanded)
- LVI. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.8, 2018 (SCI-Expanded)
- LVII. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, vol.777, pp.39-63, 2018 (SCI-Expanded)
- LVIII. **Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks**
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.97, no.1, 2018 (SCI-Expanded)
- LIX. **Measurements of the associated production of a Z boson and b jets in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)
- LX. **Particle-flow reconstruction and global event description with the CMS detector**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- LXI. **Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at 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.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)
- LXII. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- LXIII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark at root $s=13$ TeV**

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- LXIV. **Cross section measurement of t-channel single top quark production in pp collisions at root s=13 TeV**
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- LXV. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root s=13TeV**
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- LXVI. **Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at root s=13 TeV**
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- LXIX. **Search for high-mass Z gamma resonances in proton-proton collisions at root s=8 and 13 TeV using jet substructure techniques**
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- LXX. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**
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- LXXX. **Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state**
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- LXXXI. **Measurement of double-differential cross sections for top quark pair production in pp collisions at root s=8 TeV and impact on parton distribution functions**
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- LXXXIII. **Measurement of the cross section for electroweak production of Z gamma in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at root s=8 TeV**
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- LXXXV. **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at root S=13 TeV**
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- LXXXVI. **Search for t(t)over-bar resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at root s=13 TeV**
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- LXXXVIII. **Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at root s=13 TeV**
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- LXXXIX. **Search for new physics with dijet angular distributions in proton-proton collisions at root S = 13 TeV**
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- XC. **Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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- XCI. **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=5.02 TeV**
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- XCII. **Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at root s=13 TeV**
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- XCIII. **Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**
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- XCIV. **Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at root s=8 TeV**

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

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- XCVII. **Measurement of electroweak-induced production of W gamma with two jets in pp collisions at $\sqrt{s}=8$ TeV and constraints on anomalous quartic gauge couplings**

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- XCVIII. **Measurement of differential cross sections for top quark pair production using the lepton plus jets final state in proton-proton collisions at 13 TeV**

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- XCIX. **Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV**

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

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

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

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- CIII. **Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=13$ TeV and combination with 8 TeV data**

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- CIV. **A search for new phenomena in pp collisions at $\sqrt{s}=13$ TeV in final states with missing transverse momentum and at least one jet using the alpha(T) variable**

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

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- CV. **Searches for pair production of third-generation squarks in root $s=13$ TeV pp collisions**
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- CVI. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**

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

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

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- CX. **Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at root $s(NN)=5.02$ TeV**

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- CXI. **Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at root S - $NN=2.76$ TeV**

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- CXIII. **Mechanical stability of the CMS strip tracker measured with a laser alignment system**

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- CXIV. **Measurement of the WZ production cross section in pp collisions at root $s=7$ and 8 TeV and search for anomalous triple gauge couplings at root $s=8$ TeV**

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

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- CXVI. **Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at root s=8 TeV using the alpha(T) variable**
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- CXVIII. **Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at root s=8 TeV and cross section ratios to 2.76 and 7 TeV**
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- CXIX. **Search for CP violation in t(t)over-bar production and decay in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
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- CXX. **Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXI. **Measurement of the WZ production cross section in pp collisions at root s=13 Tev**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXII. **Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at root s=13 TeV**
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- CXXIII. **Measurement of the t(t)over-bar production cross section using events in the e mu final state in pp collisions at root s=13 TeV**
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- CXXIV. **Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- CXXV. **Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**
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- CXXVI. **Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying tau leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXVII. **Evidence for collectivity in pp collisions at the LHC**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXVIII. **Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXIX. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CXXX. **Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CXXXI. **Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
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- CXXXII. **Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s}=7, 8,$ and 13 TeV**
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- CLXVIII. **Study of Z boson production in pPb collisions at $\sqrt{S_{NN}}=5.02$ TeV**
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- CLXXIII. **Measurement of the inelastic cross section in proton-lead collisions at root s(NN)=5.02 TeV**
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- CLXXV. **Measurement of the $t\bar{t}$ production cross section in the $e\mu$ channel in proton-proton collisions at root s=7 and 8 TeV**
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- CLXXVIII. **Evidence for exclusive $\gamma\gamma \rightarrow W^{(+)}W^{(-)}$ production and constraints on anomalous quartic gauge couplings in pp collisions at and 8 TeV**
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- CLXXIX. **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at root s=13TeV**
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- CLXXXIV. **Measurement of the $W+W^-$ cross section in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous gauge couplings**
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- CXCV. **Measurement of the CP-violating weak phase phi(s) and the decay width difference Delta Gamma(s) using the B-s(0) -> J/psi phi (1020) decay channel in pp collisions at root s=8 TeV**
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- CXCVII. **Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV**
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- CXCVIII. **Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables**
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- CXCIX. **Measurement of the top quark mass using charged particles in pp collisions at root s=8 TeV**
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- CC. **Measurement of the ratio B(B-s(0) -> J/psi f(0)(980))/B(B-s(0) -> J/psi phi(1020)) in pp collisions at root s=7 TeV**
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The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCII. **Measurement of the top quark mass using proton-proton data at $\sqrt{s}=7$**
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- CCIII. **Search for W^+ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCIV. **Search for massive WH resonances decaying into the $l\nu b(\bar{b})$ final state at $\sqrt{s}=8$ TeV**
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- CCV. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV**
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- CCVI. **Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau\tau$**
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- CCXI. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
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- CCXII. **Search for excited leptons in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXIII. **Measurements of $t(\bar{t})$ spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV**
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- CCXIV. **Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CCXV. **Measurement of the $t(\bar{t})$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV**
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- CCXVI. **Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXVII. **Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CCXVIII. **Search for pair production of first and second generation leptons in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXIX. **Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- CCXX. **Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCXXI. **Angular analysis of the decay $B^0 \rightarrow K^*(0)\mu^+\mu^-$ from pp collisions at $\sqrt{s}=8$ TeV**
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- CCXXII. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
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- CCXXVII. **Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow \ell\ell$ with low dilepton mass in pp collisions at root $s=8$ TeV**
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- CCXXVIII. **Study of B Meson Production in p plus Pb Collisions at root $s(NN)=5.02$ TeV Using Exclusive Hadronic Decays**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCXXIX. **Search for neutral MSSM Higgs bosons decaying to $\mu(+)\mu(-)$ in pp collisions at root $s=7$ and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCXXXI. **Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at root $s=8$ TeV**
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- CCXXXII. **Observation of top quark pairs produced in association with a vector boson in pp collisions at root $s=8$ TeV**
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- CCXXXIII. **Reconstruction and identification of tau lepton decays to hadrons and $\nu(\tau)$ at CMS**
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- CCXXXIV. **Search for resonant $t(\bar{t})$ production in proton-proton collisions at root $s=8$ TeV**
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- CCXXXV. **Search for vectorlike charge $2/3$ T quarks in proton-proton collisions at root $(s)=8$ TeV**
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- CCXXXVI. **Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root**

$s(\text{NN})=2.76 \text{ TeV}$

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

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CCXXXVII. **Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons in pp collisions at root $s=8\text{TeV}$**

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

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:CCXXXVIII. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root $s=8\text{TeV}$**

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

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CCXXXIX. **Search for a light charged Higgs boson decaying to $c(s)\text{over-bar}$ in pp collisions at root $s=8 \text{TeV}$**

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

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CCXL. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root $s=13\text{TeV}$**

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PHYSICS LETTERS B, vol.751, pp.143-163, 2015 (SCI-Expanded)

CCXLI. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root $s=8 \text{TeV}$**

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

PHYSICAL REVIEW D, vol.92, no.11, 2015 (SCI-Expanded)

CCXLII. **Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root $s=8 \text{TeV}$**

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

PHYSICS LETTERS B, vol.750, pp.494-519, 2015 (SCI-Expanded)

CCXLIII. **Search for a charged Higgs boson in pp collisions at root $s=8 \text{TeV}$**

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CCXLIV. **Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root $s=8\text{TeV}$**

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

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CCXLV. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, pp.1-43, 2015 (SCI-Expanded)

CCXLVI. **Study of W boson production in pPb collisions at root(NN)-N-S=5.02 TeV**

Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth R., Ghete V. M., Hartl C., Hoermann N., Hrubec J., et al.

PHYSICS LETTERS B, vol.750, pp.565-586, 2015 (SCI-Expanded)

CCXLVII. **Angular coefficients of Z bosons produced in pp collisions at root $S=8 \text{TeV}$ and decaying to $\mu(+)\mu(-)$ as a function of transverse momentum and rapidity**

- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CCXLVIII. **Measurement of the differential cross section for top quark pair production in pp collisions at root s=8TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CCXLIX. **Comparison of the Z/gamma* plus jets to gamma plus jets cross sections in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCL. **Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons**
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- CCLI. **Measurements of the ZZ production cross sections in the 2l2 nu channel in proton-proton collisions at root s=7 and 8 TeV and combined constraints on triple gauge couplings**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CCLII. **Limits on the Higgs boson lifetime and width from its decay to four charged leptons**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLIII. **Search for supersymmetry with photons in pp collisions at root s=8 TeV**
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- CCLIV. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.727, pp.57-76, 2013 (SCI-Expanded)
- CCLV. **Search for a Higgs boson decaying into a Z and a photon in pp collisions at root s=7 and 8 TeV**
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- CCLVI. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 TeV**
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- CCLVII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
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- CCLVIII. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon**

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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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- CCLIX. **The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s}=7$ TeV at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.

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- CCLX. **Angular analysis and branching fraction measurement of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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- CCLXI. **Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.

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- CCLXII. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s}=7$ TeV and first determination of the strong coupling constant in the TeV range**
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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- CCLXIII. **Measurement of the W-boson helicity in top-quark decays from $t(\bar{t})$ production in lepton plus jets events in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.

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- CCLXIV. **Measurement of the W^+W^- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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- CCLXV. **Measurement of the production cross section for $Z \gamma \rightarrow \nu(\bar{\nu}) \gamma$ in pp collisions at $\sqrt{s}=7$ TeV and limits on ZZ gamma and Z gamma gamma triple gauge boson couplings**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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- CCLXVI. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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- CCLXVII. **Measurement of the $B^0 \rightarrow \mu^+ \mu^-$ Branching Fraction and Search for $B^0 \rightarrow \mu^+ \mu^-$ with the CMS Experiment**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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- CCLXVIII. **Interpretation of searches for supersymmetry with simplified models**
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.88, no.5, 2013 (SCI-Expanded)
- CCLXIX. **Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\alpha(T)$ and b-quark multiplicity in pp collisions at root $s=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- CCLXX. **Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at root $s=7$ TeV**
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- CCLXXI. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root $s=7$ TeV**
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- CCLXXII. **Searches for Higgs bosons in pp collisions at root $s=7$ and 8 TeV in the context of four-generation and fermiophobic models**
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- CCLXXIV. **Measurement of masses in the $t(\tilde{t})$ system by kinematic endpoints in pp collisions at root $s=7$ TeV**
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- CCLXXVII. **Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at root $s=7$ TeV**
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- CLXXXIII. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- CLXXXVII. **Search for anomalous production of highly boosted Z bosons decaying to mu(+)mu(-) in proton-proton collisions at root s=7 TeV**
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- CCXCI. **Search for long-lived particles in events with photons and missing energy in proton-proton**

collisions at root s=7 TeV

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CCXCII. Event shapes and azimuthal correlations in Z plus jets events in pp collisions at root s=7 TeV

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CCXCIII. Search for fractionally charged particles in pp collisions at root s=7 TeV

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CCXCIV. Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV

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

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CCXCV. Measurement of the t(t)over-bar production cross section in the all-jet final state in pp collisions at root s=7 TeV

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CCXCVI. 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., Eroe J., Fabjan C., et al.

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CCXCVII. Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC

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CCXCVIII. Study of the underlying event at forward rapidity in pp collisions at root s=0.9, 2.76, and 7 TeV

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

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CCXCIX. Search for Z ' resonances decaying to t(t)over-bar 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., Eroe J., Fabjan C., et al.

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CCC. Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV

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CCCI. Measurement of the X(3872) production cross section via decays to J/psi pi(+)pi(-) in pp collisions at root s=7 TeV

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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.
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- CCCVII. **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., Eroev J., Fabjan C., et al.
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- CCCVIII. **Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCIX. **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., Eroev J., Fabjan C., et al.
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- CCCX. **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**
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- CCCXI. **Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV**
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- CCCXII. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at $\sqrt{s}=7$ TeV with lepton plus jets final states**
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- CCCXIII. **Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXV. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at $\sqrt{s}=7$ TeV**
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- CCCXVI. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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- CCCXIX. **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., Eroë J., Fabjan C., et al.
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- CCCXX. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXI. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at $\sqrt{s} = 7$ TeV**
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- CCCXXII. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CCCXXIII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXIV. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXV. **Search for a W' boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXVI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q(q)\overline{b}l^{(+)}l^{(-)}$ final state**
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- CCCXXVII. **Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or ≥ 3 b-quark jets in 7 TeV pp collisions using the variable $\alpha(T)$**
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- CCCXXX. **Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV**
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- CCCXXXII. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CCCXXXV. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**
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- CDIII. **Search for the standard model Higgs boson decaying into two photons in pp collisions at root $s=7$ TeV**
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- CDIX. **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**
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Metrics

Publication: 443

Citation (WoS): 26161

Citation (Scopus): 22597

H-Index (WoS): 70

H-Index (Scopus): 77

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Prospects in Neutrino Physics, Attendee, London, United Kingdom, 2017

TÜBİTAK 4007 Adana Bilim Şenliği, CERN ve Anti Madde, Atölye Lideri, Attendee, Adana, Turkey, 2016
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Awards

GÖKBULUT G., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, 2012 yılı Bilimsel Aktivite Altın Ödülü, Çukurova Üniversitesi, February 2012

Non Academic Experience

Other, Cern

Other, Cern