

## Prof. AYSEL KAYIŞ TOPAKSU

### Personal Information

Office Phone: [+90 322 338 6084](tel:+903223386084) Extension: 2471

Office Phone: [+90 322 338 6084](tel:+903223386084) Extension: 2545

Fax Phone: [+90 322 338 6070](tel:+903223386070)

Email: [kaysel@cu.edu.tr](mailto:kaysel@cu.edu.tr)

Web: <https://avesis.cu.edu.tr//kaysel>

### Education Information

Masters (Non-Thesis, Evening Education), Cukurova University, İktisadi Ve İdari Bilimler Fakültesi, Yönetim Ve Organizasyon, Turkey 2016 - 2017

Under Graduate, Anadolu University, Açıköğretim Fakültesi, İşletme, Turkey 2013 - 2016

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1995 - 1999

Post Graduate, Cukurova University, Fen Bilimleri, Fizik, Turkey 1992 - 1995

Under Graduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1989 - 1992

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Education Management and Planning, European Research Conference on Frontiers in Particle Astrophysics and Cosmology, Munich, 2001

Education Management and Planning, NATO ASI 2000 Recent Developments in Particle Physics and Cosmology, NATO-ASI, 2000

Education Management and Planning, 27. ITEP Winter School of Physics, ITEP (Institute for Theoretical and Experimental Physics), 1999

Education Management and Planning, Techniques and Concept of High Energy Physics, School -A.B.D Virgin Islands, 1998

Education Management and Planning, European School of High Energy Physics, CERN-JINR, 1996

Education Management and Planning, CERN Summer Student Programme, CERN PH Department, 1993

### Dissertations

Doctorate, A Study On Increasing the Sensitivity of the CHORUS Neutrino Detector, Cukurova University, Fen Bilimleri, Yüksek Enerji Ve Plazma, 1999

Post Graduate, CHORUS Nötrino Osilasyon Deneyinde Kullanılan Muon Spektrometresinin Simülasyonu, Cukurova University, Fen Bilimleri, Fizik, 1995

### Research Areas

Physics, Nuclear physics, Basic Particles and Areas, Natural Sciences

## Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2008 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2003 - 2008

Research Assistant PhD, --Seçiniz--, İsviçre, Cern ( European Organization For Nuclear Research, Research Fellow), Ph Dep., 2003 - 2005

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2000 - 2003

## Academic and Administrative Experience

Cukurova University, 2013 - Continues

## Courses

Parçacık Fiziği, Under Graduate, 2016 - 2017

Analiz, Under Graduate, 2013 - 2014

## Advising Theses

KAYIŞ TOPAKSU A., Classical jet shape measurements in proton-proton collisions at CMS experiment / CMS deneyinde 7x7 TeV'lik proton-proton çarpışmasında jet şekillerinin araştırılması, Doctorate, K.Özdemir(Student), 2014

KAYIŞ TOPAKSU A., Momentum scale calibration of muon momentum tracks using the muon pairs from J/psi decays and installation and commissioning work in CMS at CERN, Doctorate, G.Gökbulut(Student), 2014

KAYIŞ TOPAKSU A., Search For Extra Dimensions with Mono-jet Final States in CMS Proton Collisions at 7 TeV, Doctorate, L.Nükhet(Student), 2011

KAYIŞ TOPAKSU A., Extra Gauge Bosons in E6 Models, Doctorate, H.Arslan(Student), 2008

## Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, February, 2013

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, June, 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Measurement of  $B_c(2S)^+$  and  $B_c^*(2S)^+$  cross section ratios in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
PHYSICAL REVIEW D, vol.102, no.9, 2020 (Journal Indexed in SCI)
- II. **Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
PHYSICAL REVIEW D, vol.102, no.9, 2020 (Journal Indexed in SCI)

- III. **Evidence for Top Quark Production in Nucleus-Nucleus Collisions**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
 PHYSICAL REVIEW LETTERS, vol.125, no.22, 2020 (Journal Indexed in SCI)
- IV. **Measurement of the top quark Yukawa coupling from  $t(\bar{t})$  over-bar kinematic distributions in the dilepton final state in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
 PHYSICAL REVIEW D, vol.102, no.9, 2020 (Journal Indexed in SCI)
- V. **W+ W- boson pair production in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
 PHYSICAL REVIEW D, vol.102, no.9, 2020 (Journal Indexed in SCI)
- VI. **Observation of the  $B\text{-}s(0) \rightarrow X(3872)\phi$  Decay**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
 PHYSICAL REVIEW LETTERS, vol.125, no.15, 2020 (Journal Indexed in SCI)
- VII. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.  
 PHYSICAL REVIEW LETTERS, vol.125, no.10, 2020 (Journal Indexed in SCI)
- VIII. **Search for resonant pair production of Higgs bosons in the  $b\bar{b}Z\gamma$  channel in proton-proton collisions at  $\sqrt{s}=13$  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 (Journal Indexed in SCI)
- IX. **Measurements of  $(t\bar{t})$  over-bar H Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**  
 Sirunyan A. M. , Tumasyan A., Adam W., 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 (Journal Indexed in SCI)
- X. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., 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 (Journal Indexed in SCI)
- XI. **The production of isolated photons in PbPb and pp collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E. , Flechl M., Fruhwirth R., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (Journal Indexed in SCI)
- XII. **Measurement of the cross section for  $t(\bar{t})$  over-bar production with additional jets and b jets in pp collisions at  $\sqrt{s}=13$  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.7, 2020 (Journal Indexed in SCI)
- XIII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)

**XV. 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., Ero J., Del Valle A. E. , et al.

PHYSICAL REVIEW C, vol.101, no.6, 2020 (Journal Indexed in SCI)

**XVI. 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., Ero J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.

PHYSICS LETTERS B, vol.805, 2020 (Journal Indexed in SCI)

**XVII. Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at root s=13TeV and constraints on anomalous quartic couplings**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (Journal Indexed in SCI)

**XVIII. 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., Ero J., Del Valle A. E. , Flechl M., et al.

PHYSICS LETTERS B, vol.805, 2020 (Journal Indexed in SCI)

**XIX. Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**

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

JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (Journal Indexed in SCI)

**XX. 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., Ero J., Del Valle A. E. , Flechl M., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (Journal Indexed in SCI)

**XXI. Determination of the strong coupling constant alpha(S)(m(Z)) from measurements of inclusive W+/- and Z boson production cross sections in proton-proton collisions at root s=7 and 8 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (Journal Indexed in SCI)

**XXII. Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at mml:msqrts mml:msqrt=13 mml:mospace 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., Ero J., Del Valle A. E. , et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.5, 2020 (Journal Indexed in SCI)

**XXIII. 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., Ero J., Del Valle A. E. , Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (Journal Indexed in SCI)

**XXIV. 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., Ero J., Del Valle A. E. , Flechl M., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.5, 2020 (Journal Indexed in SCI)

- XXV. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (Journal Indexed in SCI)
- XXVI. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**  
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.4, 2020 (Journal Indexed in SCI)
- XXVII. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at  $\sqrt{s}=13$  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.  
PHYSICAL REVIEW LETTERS, vol.124, no.13, 2020 (Journal Indexed in SCI)
- XXVIII. **Production of  $\Lambda^+(c)$  baryons in proton-proton and lead-lead collisions at  $\sqrt{S-NN}=5.02$  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.803, 2020 (Journal Indexed in SCI)
- XXIX. **Constraints on the  $\chi(c1)$  versus  $\chi(c2)$  Polarizations in Proton-Proton Collisions at  $\sqrt{s}=8$  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.  
PHYSICAL REVIEW LETTERS, vol.124, no.16, 2020 (Journal Indexed in SCI)
- XXX. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2020 (Journal Indexed in SCI)
- XXXI. **Measurement of the  $t\bar{t}$  over  $b\bar{b}$  production cross section in the all-jet final state in pp collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
PHYSICS LETTERS B, vol.803, 2020 (Journal Indexed in SCI)
- XXXII. **Running of the top quark mass from proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
PHYSICS LETTERS B, vol.803, 2020 (Journal Indexed in SCI)
- XXXIII. **Measurement of properties of  $B(s)0$  decays and search for  $B^0 \rightarrow \mu^+\mu^-$  with the CMS experiment**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2020 (Journal Indexed in SCI)
- XXXIV. **Study of excited  $\Lambda(0)b$  states decaying to  $\Lambda(0)b\pi^+\pi^-$  in proton-proton collisions at  $\sqrt{s}=13$  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.803, 2020 (Journal Indexed in SCI)
- XXXV. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.

- JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XXXVI. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XXXVII. **Search for supersymmetry in pp collisions at root s=13 TeV with 137 fb(-1) in final states with a single lepton using the sum of masses of large-radius jets**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.  
 PHYSICAL REVIEW D, vol.101, no.5, 2020 (Journal Indexed in SCI)
- XXXVIII. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XXXIX. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XL. **Observation of the  $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$  decay in proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.  
 PHYSICS LETTERS B, vol.802, 2020 (Journal Indexed in SCI)
- XLI. **A search for the standard model Higgs boson decaying to charm quarks**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XLII. **Search for new neutral Higgs bosons through the  $H \rightarrow ZA \rightarrow l^+ l^- b \bar{b}$  process in pp collisions at  $\sqrt{s}=13$  TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XLIII. **Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., et al.  
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (Journal Indexed in SCI)
- XLIV. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Eroe J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.  
 JOURNAL OF INSTRUMENTATION, vol.15, no.2, 2020 (Journal Indexed in SCI)
- XLV. **Combined search for supersymmetry with photons in proton-proton collisions at root s=13 TeV**  
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.  
 PHYSICS LETTERS B, vol.801, 2020 (Journal Indexed in SCI)
- XLVI. **Measurement of the top quark pair production cross section in dilepton final states containing one**

**tau lepton in pp collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2020 (Journal Indexed in SCI)

**XLVII. Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2020 (Journal Indexed in SCI)

**XLVIII. Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root s=13TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2020 (Journal Indexed in SCI)

**XLIX. Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (Journal Indexed in SCI)

**L. Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root s=13 TeV**

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

PHYSICS LETTERS B, vol.800, 2020 (Journal Indexed in SCI)

**LI. Probing the chiral magnetic wave in pPb and PbPb collisions at root S-NN=5.02 TeV using charge-dependent azimuthal anisotropies**

Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW C, vol.100, no.6, 2019 (Journal Indexed in SCI)

**LII. Measurement of the differential Drell-Yan cross section 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.12, 2019 (Journal Indexed in SCI)

**LIII. Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events 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.12, 2019 (Journal Indexed in SCI)

**LIV. 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 (Journal Indexed in SCI)

**LV. Measurements of differential Z boson production cross sections 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.12, 2019 (Journal Indexed in SCI)

**LVI. Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon 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.123, no.23, 2019 (Journal Indexed in SCI)

**LVII. 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., Eroee J., Del Valle A. E., Flechl M., et al.

PHYSICAL REVIEW LETTERS, vol.123, no.24, 2019 (Journal Indexed in SCI)

**LVIII. Study of the  $B^+ \rightarrow J/\psi(\Lambda)\bar{p}$  decay in proton-proton collisions at root s=8 TeV**

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**LIX. Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**

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**LX. Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root S-NN=5.44 TeV**

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**LXI. Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**

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**LXII. Search for MSSM Higgs bosons decaying to  $\mu^+\mu^-$  in proton-proton collisions at root s=13TeV**

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**LXV. Search for new physics in top quark production in dilepton final states in proton-proton collisions at root s=13 TeV**

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**LXVI. Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons**

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- LXVIII. **Search for  $t(\bar{t})$  production in the  $H \rightarrow b(\bar{b})$  decay channel with leptonic  $t(\bar{t})$  decays in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- LXIX. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at  $\sqrt{s}=13$  TeV**  
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- LXX. **Measurement of prompt  $\psi(2S)$  production cross sections in proton-lead and proton-proton collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
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- LXXI. **Search for Narrow H gamma Resonances in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**  
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- LXXII. **Search for top quark partners with charge  $5/3$  in the same-sign dilepton and single-lepton final states in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- LXXIII. **Inclusive search for supersymmetry in pp collisions at  $\sqrt{s}=13$  TeV using razor variables and boosted object identification in zero and one lepton final states**  
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- LXXIV. **Measurement of nuclear modification factors of  $\gamma(1S)$ ,  $\gamma(2S)$ , and  $\gamma(3S)$  mesons in PbPb collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
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- LXXV. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- LXXVI. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at  $\sqrt{s}=13$  TeV**  
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- LXXVII. **Measurement of differential cross sections for Z boson pair production in association with jets at  $\sqrt{s}=8$  and  $13$  TeV**  
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- LXXX. **Measurements of  $t(\bar{t})$  differential cross sections in proton-proton collisions at root s=13 TeV using events containing two leptons**  
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- LXXXVII. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV**  
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- LXXXVIII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV**  
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- XC. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root  $s=13$  TeV**  
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- XCVI. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**  
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- CXXXVIII. **Combination of inclusive and differential  $t(\bar{t})$  over-bar charge asymmetry measurements using ATLAS and CMS data at root  $S=7$  and 8 TeV**  
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- CXLI. **Measurement of the inclusive  $t(\bar{t})$  over-bar cross section in pp collisions root  $s=5.02$  TeV using final states with at least one charged lepton**  
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- CXLIII. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root s=13 TeV**  
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- CXLVII. **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**  
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CLIV. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root  $s=13$  TeV**

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CLV. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root  $s=13$  TeV**

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CLVI. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at root  $s=13$  TeV**

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

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CLVII. **Measurement of the triple-differential dijet cross section in proton-proton collisions at root  $s=8$  TeV and constraints on parton distribution functions**

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

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CLVIII. **Measurements of the associated production of a Z boson and b jets in pp collisions at root  $s=8$  TeV**

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CLIX. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root  $s=13$  TeV**

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CLX. **Search for Supersymmetry in pp Collisions at root  $s=13$  TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**

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CLXI. **Measurement of the B-+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root  $s(NN)=5.02$  TeV**

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CLXII. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root  $s=13$  TeV**

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CLXIII. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root  $s=13$  TeV**

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- CLXV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**  
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- CLXVI. **Measurement of the top quark mass in the dileptonic t(t)over-bar decay channel using the mass observables M-bl, M-T2, and M-blv in pp collisions at root=8 TeV**  
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- CLXVII. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**  
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- CLXVIII. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**  
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- CLXXVI. **Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect**  
Khachatryan V., Tumasyan A., SIRUNYAN A. M. , Wolfgang A., Asiler E., BRANDSTETTER J., BERGAUER T., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.  
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- CLXXVII. **Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at TeV**  
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- CLXXIX. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 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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Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., Friedl M., Fruhwirth R., et al.  
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- CLXXXIII. **Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at  $\sqrt{s} = 8$  TeV**  
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- CLXXXV. **Search for  $W' \rightarrow tb$  in proton-proton collisions at root s=8 TeV**

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CLXXXVI. **Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root s=8TeV**

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CLXXXVII. **Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**

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CXCI. **Search for a standard model-like Higgs boson in the mu(+)mu(-) and e(+)e(-) decay channels at the LHC**

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CXCIII. **Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at root s = 8 TeV**

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- CCLIX. **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.

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

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

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

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

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

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

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- CCLXIII. **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 (Journal Indexed in SCI)

**CCLXIV. 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.

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

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

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

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

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

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

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

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

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

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**CCLXX. 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.

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

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**CCLXXII. 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.

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**CCLXXIII. 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.

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- CCLXXIV. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at root s=7 TeV**  
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- CCLXXV. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at root s=7 TeV**  
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- CCLXXVI. **Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy**  
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- CCLXXVII. **Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV**  
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- CCLXXIX. **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., Eroe J., Fabjan C., Friedl M., et al.  
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- CCLXXX. **Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy**  
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.  
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- CCLXXXIII. **Measurement of the t(t)over-bar production cross section in pp collisions at root s=7 TeV in dilepton final states containing a tau**  
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.  
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- CLXXXVI. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at root s(NN)=2.76 TeV**  
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- CLXXXVII. **Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at root s=7 TeV**  
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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.  
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- CCXCIV. **Combined results of searches for the standard model Higgs boson in pp collisions at root s=7 TeV**  
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- CCXCV. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**  
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- CCXCVI. **Search for the standard model Higgs boson in the  $H \rightarrow ZZ \rightarrow l^{+}l^{-}\tau^{+}\tau^{-}$  decay channel in**

**pp collisions at root s=7 TeV**

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

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**CCXCVII. 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.

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

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**CCXCIX. Exclusive  $\gamma\gamma \rightarrow +\mu\mu -$  production in proton-proton collisions at  $\sqrt{s} = 7$  TeV**

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**CCC. 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, Eroe J, Fabjan C, Friedl M, et al.

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**CCCI.  $J/\psi$  and  $\psi(2S)$  production in pp collisions at root s=7 TeV**

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

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**CCCIII. 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, Eroe J, Fabjan C, Friedl M, et al.

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**CCCIV. Performance of tau-lepton reconstruction and identification in CMS**

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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**CCCV. Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC**

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**CCCVI. Search for light resonances decaying into pairs of muons as a signal of new physics**

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**CCCVII. Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy**

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## Supported Projects

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KAYIŞ TOPAKSU A., Boran F., Project Supported by Higher Education Institutions, 13 TeV'de Razor değişkenleri kullanılarak itirilmiş top kuark etiketleme yöntemi ile yeni fizik araştırmaları: Ardalan hesaplama, 2018 - Continues

KAYIŞ TOPAKSU A., EU Framework Program Project, Feasibility Study for employing the uniquely powerful ESS linear accelerator to generate an intense neutrino beam for leptonic CP violation discovery and measurement, 2017 - Continues

KAYIŞ TOPAKSU A., Zorbakır İ. S. , Project Supported by Higher Education Institutions, 13 TeV'de dijet kütle tesir kesitinin ölçülmesi, 2017 - Continues

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KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CMS Deneyinde HKAL'in Yenilenme/İyileştirme Çalışmaları ve fizik Analizleri, 2014 - Continues

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, CMS Deneyinde yeni fizik araştırmaları (4 adet yayın ile başvuru), 2017 - 2021

KAYIŞ TOPAKSU A., DOĞAN T., TOPAKSU M., Project Supported by Higher Education Institutions, Erbiyum (Er) Katkılanmış Al<sub>2</sub>O<sub>3</sub> Dozimetrenin Termoluminesans Yöntemi Kullanılarak Doz Cevap Eğrilerinin Analizi, 2017 - 2020

KAYIŞ TOPAKSU A., Bilican F., Project Supported by Higher Education Institutions, CMS Hadron Kalorimetresinin performans analizleri, 2018 - 2019

KAYIŞ TOPAKSU A., Uslan E., Project Supported by Higher Education Institutions, CMS deneyinde PF jet tanımlama algoritma performansı ve farklı jet tetikleyiciler için yüklü hadron oranının belirlenmesi, 2018 - 2019

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KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, CERN'de yapılmakta olan CMS deneyinde yeni fizik araştırmaları (Yayın teşvik), 2016 - 2017

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, Yayın teşvik (2 yayın), 2015 - 2016

KAYIŞ TOPAKSU A., Boran F., Project Supported by Higher Education Institutions, CMS Hadronik Kalorimetre Lazer Sisteminin Test Çalışmaları, 2015 - 2015

KAYIŞ TOPAKSU A., Zorbakır İ. S. , Project Supported by Higher Education Institutions, CMS Kalorimetre jetleri için Kule Eşik Değerlerinin Saptanması, 2014 - 2015

KAYIŞ TOPAKSU A., Kiminsu U., Project Supported by Higher Education Institutions, CMS'de Yenilenen PMT'lerin kazançlarının zamana göre değişimin incelenmesi, 2014 - 2015

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, 1) Measurement Of The Cross Section And Angular Correlations For Associated Production Of A Z Boson With B Hadrons In Pp Collisions At S= 7 Tev 2) Jet And Underlying Event Properties As A Function Of Charged-Particle Multiplicity In Proton-Proton Collisions At Root S=7 Tev 3) Measurement Of The W+W- Cross Section In Pp Collisions At And Limits On Anomalous Ww Gamma And Wwz Couplings" 4) Search For Narrow Resonances Using The Dijet Mass Spectrum In Pp Collisions At Root S=8 Tev", 2014 - 2015

KAYIŞ TOPAKSU A., Oğlakçı M., Project Supported by Higher Education Institutions, CMS Kalorimetre jetleri kullanılarak HPD ve SiPM'lerin kalibrasyon faktörlerinin belirlenmesi, 2014 - 2014

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, LHC'de CMS Deneyinde 7 - 14 TeV Kütle Merkezi Enerjisinde J/? Parçacığı İçeren Dar Rezonansların Araştırılması, 2011 - 2014

KAYIŞ TOPAKSU A., Project Supported by Higher Education Institutions, CERN'deki CMS Deneyinde Monte Carlo Verileri ile Kalibrasyon Çalışmaları, 2012 - 2013  
KAYIŞ TOPAKSU A., GÖKBULUT G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CMS Deneyinde Dedektör Kurulumu, Yenilenmesi ve Fizik Çalışmaları, 2010 - 2013  
KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CERN'deki CMS deneyinde ağır iyon çalışmaları, 2004 - 2009  
KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CERN'deki CMS Deneyi için Kullanılacak Optik ve Ölçüm Laboratuvarının Kurulması, 2003 - 2004  
KAYIŞ TOPAKSU A., TUBITAK Project, CERN'deki CMS Deneyi için En İleri Kalorimetre II, 1999 - 2000  
KAYIŞ TOPAKSU A., TUBITAK Project, Yüksek Enerji Fiziki CERN Nötrino Deneyleri Araştırmaları, 1992 - 1996

## Citations

Total Citations (WOS):28555

h-index (WOS):71

## Scholarships

Junior Associate(2006-2011), ICTP, İtalya, Other International Organizations, 2006 - 2011

Research Fellow (2003-2005), CERN, Cenevre, İsviçre, Other International Organizations, 2003 - 2005

Bütünleştirilmiş Doktora Burs Programı(1996-1999), TUBITAK, 1996 - 1999

## Awards

KAYIŞ TOPAKSU A., Fen-Edebiyat Fakülte Birinciliği, Çukurova Üniversitesi, June 1992

KAYIŞ TOPAKSU A., Fizik Bölüm Birincisi, Çukurova Üniversitesi, June 1992