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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-8905-2018

ScopusID: 6602158406

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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstits, Fizik, Turkey 1987 - 1992

Postgraduate, Cukurova University, Fen Bilimleri Enstits, Fizik, Turkey 1983 - 1986

Undergraduate, Cukurova University, Fen Edebiyat Fakltesi, Fizik, Turkey 1979 - 1983

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Production of Secondaries at Supercollider Energies , Cukurova University, Fizik, Yksek Enerji FiziĐi, 1992

Postgraduate, Yksek Enerjili Elastik Hadronik Saılma ile İlgili Deneysel Veriler ve Fenomenoloji , Cukurova University, Fizik, Fizik/Yksek Enerji FiziĐi, 1986

Research Areas

Physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakltesi, Fizik, 2001 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakltesi, Fizik, 1995 - 2001

Assistant Professor, Cukurova University, Fen-Edebiyat Fakltesi, Fizik, 1993 - 1995

Research Assistant, Cukurova University, Fen-Edebiyat Fakltesi, Fizik, 1984 - 1993

Academic and Administrative Experience

Cukurova University, Fizik, Fizik, 2010 - Continues

Cukurova University, Fizik, Fizik, 2003 - 2006

Cukurova University, Fen Edebiyat Fakültesi, 2002 - 2005

Advising Theses

- Eşkut E., 13 TeV'lik pp Çarpışmalarında Enerji Akışının CMS Deneyi ile Ölçülmesi, Doctorate, E.PINAR(Student), 2023
- Eşkut E., İleri hadronik kalorimetre (HF)'in LED'lerinde gözlenen tekrleme problemi, Postgraduate, B.KAPLAN(Student), 2022
- Eşkut E., DETERMINATION OF THE JET ENERGY SCALE CORRECTIONS FOR THE LOW PT JETS IN PROTON-PROTON COLLISIONS AT $\sqrt{s}=13$ TeV WITH THE CMS EXPERIMENT, Doctorate, Z.Şeyma(Student), 2020
- Eşkut E., İLERİ BÖLGE JETLERİ İÇİN BELİRLENEN JET ENERJİ DÜZELTME FAKTÖRLERİNİN TESTİ, Postgraduate, A.ŞAHİN(Student), 2020
- Eşkut E., CMS DEDEKTÖRÜNÜN HB KALORİMETRESİNDE YENİLENEN KALİBRASYON BİRİMLERİNİN LAZER TESTLERİ ANALİZİ, Postgraduate, B.Tuğçe(Student), 2020
- EŞKUT E., Measurement of Energy Density as a Function of Pseudorapidity in proton-proton Collisions at 13 TeV with the CMS Experiment LHC, Doctorate, Ç.Zorbilmez(Student), 2019
- EŞKUT E., Hadronik İleri Kalorimetre (HF)'de Kullanılan QIE10 Kartlarının Pedestal, CAPID, ICI Testleri, Postgraduate, İ.Baldan(Student), 2017
- EŞKUT E., Measurements of Inclusive Low-PT Jets Cross-Section and Azimuthal Angle Decorrelation of Jets with Large Rapidity Separation Using Run I CMS Data, Doctorate, İ.Hoş(Student), 2016
- EŞKUT E., Inclusive Forward Jet Cross Section Measurement in Proton-Proton Collisions at $\sqrt{s}=7$ TeV, Doctorate, S.Girgis(Student), 2014
- EŞKUT E., İleri Hadronik Kalorimetre (HF)'de Kullanılacak olan Yeni Foto Çoğaltıcı Tüp (FÇT)'lerin Testleri ve Farklı Jet Algoritmalarında ve Jet Tiplerinde Jet Analizi, Postgraduate, F.Hayal(Student), 2013
- EŞKUT E., CMS Deneyindeki HB ve HE Kalorimetresindeki HFD'lerin Gürültü Analizleri ve HO Test Düzenindeki SiFÇ'lerin Self Trigger Analizi, Postgraduate, Z.Şeyma(Student), 2013
- EŞKUT E., CMS'deki Hadronik Dış Kalorimetre (HO) için HO904 Kararlılık Testlerinde LED Analizi, Postgraduate, M.Özcan(Student), 2013
- EŞKUT E., CMS'deki ZDC Dedektörü İçim Akım Ayırıcı Devre, Postgraduate, Ç.Zorbilmez(Student), 2012
- EŞKUT E., CMS'in HF Detektöründeki FÇT (Foto Çoğaltıcı Tüp)'lerin Yüksek Voltaj Altındaki Davranışlarının İncelenmesi (, Postgraduate, E.Pnar(Student), 2009
- EŞKUT E., Performance Improvement of an AGATA Segmented Germanium Detector, Doctorate, S.Aydın(Student), 2009
- EŞKUT E., Low-x QCD with Jets in the CMS Hadron Forward Calorimeter in Proton-Proton Collisions at 14 TeV and Test Studies of Forward Calorimeters, Doctorate, S.Çerçi(Student), 2009
- EŞKUT E., CMS CASTOR Detektöründe Kullanılan Kuvartz Plakaların Üteli ve Dedektöre Montajı, Postgraduate, A.Ayhan(Student), 2009
- EŞKUT E., ATLAS MDT'leri için hodoskop sistemi, Postgraduate, H.Şahiner(Student), 2007
- EŞKUT E., CMS (Compact Muon Solenoid) Deneyindeki CASTOR Detektörünün Test Veri Analizleri, Postgraduate, N.Aksay(Student), 2006
- EŞKUT E., Study of the Response of the CMS Hadron Calorimeter, Doctorate, S.Esen(Student), 2006
- EŞKUT E., 12C+12C ve 16O+16O nükleer reaksiyonlarının esnek ve esnek olmayan etkileşmelerinin yeni çiftlenim potansiyeli kullanılarak incelenmesi, Postgraduate, S.Aydın(Student), 2004
- EŞKUT E., CMS Deneyinde CP Kırınımı, Postgraduate, S.Çerçi(Student), 2003
- EŞKUT E., Nötrino Fiziğinde Son Gelişmeler, Postgraduate, H.Topaklı(Student), 2003
- EŞKUT E., CMS Deneyinde Araştırılacak Fizik Konuları, Postgraduate, S.Esen(Student), 2001
- EŞKUT E., CMS (Compact Muon Solenoid) Deneyinde Kullanılacak Olan VFCAL (En İleri Kalorimetre)'in Enerji Lineerliliği, Postgraduate, S.Sancar(Student), 2000
- EŞKUT E., Güneşsel ve Atmosferik Nötrino Problemleri, Postgraduate, H.Öztürk(Student), 1997

Jury Memberships

Associate Professor Exam, Doçentlik sınavında jüri üyesi, Ankara Üniversitesi, March, 2017
Associate Professor Exam, Doçentlik sınavı, Eskişehir Üniversitesi, April, 2015
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK/Boğaziçi Üniv., June, 2014
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK/Boğaziçi Üniv., October, 2013
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK/Ankara TOBB Univ., July, 2012
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK/Çukurova Üniv., April, 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.853, 2024 (SCI-Expanded)
- II. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
- III. **Observation of $WW\gamma$ Production and Search for $H\gamma$ Production in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.12, 2024 (SCI-Expanded)
- IV. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)
- V. **Study of azimuthal anisotropy of $Y(1S)$ mesons in pPb collisions at $s_{NN} = 8.16\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- VI. **Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $s_{NN}=5.02\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- VII. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- VIII. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical review letters, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)
- IX. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{S} = 13\text{TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)

- X. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)
- XI. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., et al.
Physical Review Letters, vol.132, no.4, 2024 (SCI-Expanded)
- XII. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
Physical review letters, vol.132, no.2, pp.21803, 2024 (SCI-Expanded)
- XIII. **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)
- XIV. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- XV. **Luminosity determination using Z boson production at the CMS experiment**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- XVI. **Evidence for Higgs boson decay to a pair of muons**
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.1, 2021 (SCI-Expanded)
- XVII. **Dependence of inclusive jet production on the anti-k(T) distance parameter 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., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2020 (SCI-Expanded)
- XVIII. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2020 (SCI-Expanded)
- XIX. **Search for bottom-type, vectorlike quark pair production in a fully hadronic 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., Frühwirth R., et al.
PHYSICAL REVIEW D, vol.102, no.11, 2020 (SCI-Expanded)
- XX. **Search for decays of the 125 GeV Higgs boson into a Z boson and a rho or phi meson**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2020 (SCI-Expanded)

- XXI. **Measurement of $B\text{-}c(2S)^{+}$ and $B\text{-}c^{*}(2S)^{+}$ cross section ratios 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.

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

- XXII. **$W^{+}W^{-}$ boson pair production 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.

PHYSICAL REVIEW D, vol.102, no.9, 2020 (SCI-Expanded)

- XXIII. **Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions**

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.

JOURNAL OF INSTRUMENTATION, vol.15, no.10, 2020 (SCI-Expanded)

- XXIV. **Search for a light charged Higgs boson in the $H\text{-}+/-\rightarrow cs$ 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., Flechl M., Fruhwirth R., et al.

PHYSICAL REVIEW D, vol.102, no.7, 2020 (SCI-Expanded)

- XXV. **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., 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 (SCI-Expanded)

- XXVI. **Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum**

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.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2020 (SCI-Expanded)

- XXVII. **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)

- XXVIII. **Search for heavy Higgs bosons decaying to a top quark pair 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.4, 2020 (SCI-Expanded)

- XXIX. **Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state 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.

PHYSICS LETTERS B, vol.803, 2020 (SCI-Expanded)

- XXX. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of 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., Fruhwirth R., et al.

PHYSICAL REVIEW LETTERS, vol.124, no.13, 2020 (SCI-Expanded)

- XXXI. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (SCI-Expanded)
- XXXII. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.100, no.11, 2019 (SCI-Expanded)
- XXXIII. **Search for resonances decaying to a pair of Higgs bosons in the $b(b)\overline{b}(q)\overline{b}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2019 (SCI-Expanded)
- XXXIV. **Charged-particle angular correlations in XeXe collisions at $\sqrt{s(NN)}=5.44$ 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.100, no.4, 2019 (SCI-Expanded)
- XXXV. **Measurement of electroweak WZ boson production and search for new physics in WZ plus two jets events in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.795, pp.281-307, 2019 (SCI-Expanded)
- XXXVI. **Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s(NN)}=5.02$ 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 C, vol.100, no.2, 2019 (SCI-Expanded)
- XXXVII. **Search for charged Higgs bosons in the $H\rightarrow\tau\tau$ decay channel 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.7, 2019 (SCI-Expanded)
- XXXVIII. **Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=13$ TeV using the CMS detector**
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.14, 2019 (SCI-Expanded)
- XXXIX. **Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2019 (SCI-Expanded)
- XL. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)
- XLI. **Observation of prompt J/psi meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s(NN)}=8.16$ 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.791, pp.172-194, 2019 (SCI-Expanded)

- XLII. **Jet Shapes of Isolated Photon-Tagged Jets in 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.122, no.15, 2019 (SCI-Expanded)
- XLIII. **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
- XLIV. **Search for pair production of first-generation scalar leptoquarks at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.99, no.5, 2019 (SCI-Expanded)
- XLV. **Evidence for light-by-light scattering in ultraperipheral PbPb collisions at root S-NN=5.02 TeV**
d'Enterria D., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
NUCLEAR PHYSICS A, vol.982, pp.791-794, 2019 (SCI-Expanded)
- XLVI. **Search for new particles decaying to a jet and an emerging jet**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- XLVII. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.789, pp.643-665, 2019 (SCI-Expanded)
- XLVIII. **Multiparticle correlations and higher order harmonics in pPb collisions at root s(NN)=8.16 TeV**
Wang Q., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
NUCLEAR PHYSICS A, vol.982, pp.375-378, 2019 (SCI-Expanded)
- XLIX. **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., Ero J., et al.
NUCLEAR PHYSICS A, vol.982, pp.527-530, 2019 (SCI-Expanded)
- L. **D-0-Meson R-AA in PbPb Collisions at root s(NN)=5.02 TeV and Elliptic Flow in pPb Collisions at root s(NN)=8.16 TeV with CMS**
Shi Z., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
NUCLEAR PHYSICS A, vol.982, pp.647-650, 2019 (SCI-Expanded)
- LI. **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., Ero J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- LII. **Fragmentation of J/psi in jets in pp collisions at root s=5.02 TeV** Batoul Diab for the CMS collaboration
Diab B., Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.
NUCLEAR PHYSICS A, vol.982, pp.186-188, 2019 (SCI-Expanded)
- LIII. **Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions**

Oh G., Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., et al.

NUCLEAR PHYSICS A, vol.982, pp.743-746, 2019 (SCI-Expanded)

LIV. Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment

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

NUCLEAR PHYSICS A, vol.982, pp.395-398, 2019 (SCI-Expanded)

LV. Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel 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., Eroo J., Escalante Del Valle A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)

LVI. Search for low-mass resonances decaying into bottom quark-antiquark pairs 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., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.99, no.1, 2019 (SCI-Expanded)

LVII. Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV

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

PHYSICAL REVIEW D, vol.99, no.1, 2019 (SCI-Expanded)

LVIII. Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum 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., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)

LIX. Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = \text{TeV}$

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

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)

LX. Event shape variables measured using multijet final states 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., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2018 (SCI-Expanded)

LXI. Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s(NN)}=5.02$ TeV Using Isolated Photon-Tagged Jets

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

PHYSICAL REVIEW LETTERS, vol.121, no.24, 2018 (SCI-Expanded)

LXII. Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

LXIII. Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions

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

PHYSICAL REVIEW C, vol.98, no.4, 2018 (SCI-Expanded)

LXIV. Search for additional neutral MSSM Higgs bosons in the tau tau 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., Eroë J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)

- LXV. **Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, vol.78, no.9, 2018 (SCI-Expanded)
- LXVI. **Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Erö J., et al.
European Physical Journal C, vol.78, no.9, 2018 (SCI-Expanded)
- LXVII. **Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu(\nu)\text{over-bar}q(q)\text{over-bar}$ final state**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroë J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)
- LXVIII. **Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum 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., Eroë J., et al.
PHYSICS LETTERS B, vol.782, pp.440-467, 2018 (SCI-Expanded)
- LXIX. **Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0}\mu^{+}\mu^{-}$ 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., Eroë J., et al.
PHYSICS LETTERS B, vol.781, pp.517-541, 2018 (SCI-Expanded)
- LXX. **Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp 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., Eroë J., et al.
PHYSICAL REVIEW D, vol.97, no.11, 2018 (SCI-Expanded)
- LXXI. **Search for high-mass resonances in final states with a lepton and missing transverse momentum at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroë J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)
- LXXII. **Search for excited quarks of light and heavy flavor in gamma plus jet final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroë J., et al.
PHYSICS LETTERS B, vol.781, pp.390-411, 2018 (SCI-Expanded)
- LXXIII. **Search for lepton flavour violating decays of the 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., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroë J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)
- LXXIV. **Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp 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.
PHYSICS LETTERS B, vol.780, pp.118-143, 2018 (SCI-Expanded)
- LXXV. **Search for pair production of excited top quarks in the lepton plus jets final state The CMS Collaboration**
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.778, pp.349-370, 2018 (SCI-Expanded)
- LXXVI. **Constraintson the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root s=8TeV**
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)
- LXXVII. **Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.
PHYSICS LETTERS B, vol.776, pp.355-378, 2018 (SCI-Expanded)
- LXXVIII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- LXXIX. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- LXXX. **Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root s=13TeV**
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.12, 2017 (SCI-Expanded)
- LXXXI. **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)
- LXXXII. **Search for standard model production of four top quarks in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.336-358, 2017 (SCI-Expanded)
- LXXXIII. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.306-329, 2017 (SCI-Expanded)
- LXXXIV. **Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at root s(NN)=2.76 TeV with the CMS experiment**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, vol.772, pp.489-511, 2017 (SCI-Expanded)
- LXXXV. **Measurement of the $t\bar{t}$ production cross section using events with one lepton and at least**

one jet in pp 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.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2017 (SCI-Expanded)

LXXXVI. Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 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.

PHYSICAL REVIEW D, vol.96, no.3, 2017 (SCI-Expanded)

LXXXVII. 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

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

PHYSICS LETTERS B, vol.771, pp.80-105, 2017 (SCI-Expanded)

LXXXVIII. Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV

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

PHYSICS LETTERS B, vol.770, pp.50-71, 2017 (SCI-Expanded)

LXXXIX. 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

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

PHYSICS LETTERS B, vol.770, pp.380-402, 2017 (SCI-Expanded)

XC. 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

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 HIGH ENERGY PHYSICS, no.7, 2017 (SCI-Expanded)

XCI. Measurement of the jet mass in highly boosted t(t)over-bar events from pp collisions at root s=8TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.7, 2017 (SCI-Expanded)

XCII. Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV

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

PHYSICS LETTERS B, vol.770, pp.278-301, 2017 (SCI-Expanded)

XCIII. Measurement of electroweak-induced production of W gamma with two jets in pp collisions at root s=8TeV and constraints on anomalous quartic gauge couplings

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2017 (SCI-Expanded)

XCIV. 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 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.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2017 (SCI-Expanded)

XCV. Observation of gamma(1S) pair production in proton-proton collisions at root 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.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2017 (SCI-Expanded)

- XCVI. **Measurement of the top quark mass using single top quark events in proton-proton collisions at root s=8 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.5, 2017 (SCI-Expanded)

- XCVII. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**

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

PHYSICS LETTERS B, vol.768, pp.137-162, 2017 (SCI-Expanded)

- XCVIII. **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**

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.4, 2017 (SCI-Expanded)

- XCIX. **Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2017 (SCI-Expanded)

- C. **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.

PHYSICS LETTERS B, vol.766, pp.268-290, 2017 (SCI-Expanded)

- CI. **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.

PHYSICAL REVIEW D, vol.95, no.5, 2017 (SCI-Expanded)

- CII. **Searches for invisible decays of the Higgs boson in pp collisions at root S=7, 8, and 13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2017 (SCI-Expanded)

- CIII. **Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at root 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.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2017 (SCI-Expanded)

- CIV. **Measurement of the production cross section of a W boson in association with two b jets in pp collisions at root s=8TeV**

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.2, 2017 (SCI-Expanded)

- CV. **Observation of the diphoton decay of the Higgs boson and measurement of its properties**

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

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.10, pp.1-49, 2014 (SCI-Expanded)

- CVI. **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., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **HADRONİK İLERİ KALORİMETRE (HF)'DE KULLANILAN QIE10 KARTLARININ PEDESTAL, CAPID VE İCI TESTLERİ**
BALDAN İ., EŞKUT E.
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.35, no.1, pp.71-80, 2018 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **First CMS Results at 13 TeV**
Ronchese P., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., GÖKBULUT G., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., CMS C.
MESON 2016, 2 - 07 June 2016, vol.130, pp.1029
- II. **Z W jets production at 8 13 TeV in CMS**
ÖCALAN K., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., GÖKBULUT G., KAYIŞ TOPAKSU A., POLATÖZ A., et al.
QCD@Work 2016, 27 - 30 June 2016, vol.129, pp.2
- III. **Recent Results from CMS**
DORDEVIC M., KHACHATRYAN V., ÖZDEMİR K., HOŞ İ., ÖNENGÜT G., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., GÖKBULUT G., CMS C.
19 th International Seminar on High Energy Physics(Quarks-2016), 29 May - 04 June 2016, vol.125, pp.1001
- IV. **Jet Production and Energy Distribution in the very forward direction at 13 TeV with CMS**
SUNAR ÇERÇİ D., ÖNENGÜT G., ÖZDEMİR K., HOŞ İ., GİRİSİS S., EŞKUT E., CMS C.
Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016
- V. **Recent forward physics and diffraction results from CMS**
Veres G., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., GÖKBULUT G., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., KAYIŞ TOPAKSU A., CMS C.
ISMD 2015, 4 - 09 October 2015, vol.120, pp.2003
- VI. **First Run 2 Searches for Exotica At CMS**
BAŞEĞMEZ DU PREE S., Khachatryan V., HOŞ İ., ADIGÜZEL A., ÖZDEMİR K., ÖNENGÜT G., POLATÖZ A., EŞKUT E., CMS C.
Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1379
- VII. **Higgs to tau tau Anaysis in the CMS experiment**
Olszewski M., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., GÖKBULUT G., POLATÖZ A., KAYIŞ TOPAKSU A., et al.
Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1697-1703
- VIII. **HIGGS TO TAU TAU ANALYSIS IN THE CMS EXPERIMENT**
Olszewski M., Khachatryan V., Sirunyan A., ÖZDEMİR K., ÖNENGÜT G., HOŞ İ., POLATÖZ A., EŞKUT E., CMS C.
Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1697
- IX. **Exclusive Production at CMS**
Walczak M., Khachatryan V., ÖNENGÜT G., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., POLATÖZ A., EŞKUT E., CMS C.
Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1751
- X. **Standart Model Results of CMS At 13 TEV**
AHMAD M., KHACHATRYAN V., ÖZDEMİR K., ÖNENGÜT G., HOŞ İ., ADIGÜZEL A., POLATÖZ A., EŞKUT E., Collaboration C.

Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1365

XI. Standard Model Results of CMS at 13 TeV

Ahmad M., HOŞ İ., ADIGÜZEL A., ÖZDEMİR K., KANGAL E. E., EŞKUT E., DUMANOĞLU İ., KAYIŞ TOPAKSU A., Collaboration C.

Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1365-1377

XII. Heavy Ion Results of the CMS experiment

Boimska B., ÖZDEMİR K., HOŞ İ., ADIGÜZEL A., KANGAL E. E., DUMANOĞLU İ., EŞKUT E., POLATÖZ A., GÖKBULUT G., KAYIŞ TOPAKSU A., et al.

Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1397-1415

XIII. Heavy Ion results Of CMS Experiment

BOIMSKA B., KHACHATRYAN V., HOŞ İ., ADIGÜZEL A., ÖNENGÜT G., POLATÖZ A., EŞKUT E., ÖZDEMİR K., CMS C.

Epiphany 2016 Conference, 7 - 09 January 2016, vol.47, pp.1397

XIV. MPI and UE corrections to jet measurements and influence on PDF determination and alpha S

ÇERÇİ S., Khachatryan V., Sirunyan A., Tumasyan A., Guler Y., EŞKUT E., ÖZDEMİR K., CMS C.

7th International Workshop on Multiple Partonic Interaction at LHC, Trieste, Italy, 23 - 27 October 2015

XV. MPI and UE corrections to jet measurements and influence on PDF determination and alpha S

ÇERÇİ S., BAKIRCI M. N., SUNAR ÇERÇİ D., KANGAL E. E., GÖKBULUT G., EŞKUT E., DUMANOĞLU İ., POLATÖZ A., KAYIŞ TOPAKSU A., CMS C.

MPI@LHC 2015, 23 - 27 November 2015

XVI. Inclusive jet cross section and strong coupling constant measurements at CMS

ÇERÇİ S., KHACHATRYAN V., Sirunyan A., HOŞ İ., ÖZDEMİR K., POLATÖZ A., EŞKUT E., SUNAR ÇERÇİ D., Collaboration C.

9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION (BPU-9), Istanbul, Turkey, 24 - 27 August 2015

XVII. COSMOS - A COMPREHENSIVE SUPER MONTE-CARLO SYSTEM

ANSELMO F., DIROSA O., LACOMMARE G., PUSZTASZERI J., VANEIJK B., ALBERTY J., ESKUT E., HATZIFOTIADOU D., MARINO M., MAIDANTCHIK C., et al.

14TH WORKSHOP OF THE ITALIAN NATL INST FOR NUCLEAR PHYSICS ELOISATION PROJECT - DATA

STRUCTURES FOR PARTICLE PHYSICS EXPERIMENTS : EVOLUTION OR REVOLUTION, ERICE, Italy, 11 - 18

November 1990, pp.70-76

Supported Projects

EŞKUT E., BALDAN İ., DEMİROĞLU Z. Ş., Project Supported by Higher Education Institutions, DETERMINATION OF THE JET ENERGY SCALE CORRECTIONS FOR THE LOW PT JETS IN PROTON-PROTON COLLISIONS AT $\sqrt{s} = 13$ TeV WITH THE CMS EXPERIMENT, 2015 - 2020

EŞKUT E., Zorbilmez Ç., Project Supported by Higher Education Institutions, MEASUREMENT OF ENERGY DENSITY AS A FUNCTION OF PSEUDORAPIDITY IN PROTON-PROTON COLLISIONS AT $\sqrt{s} = 13$ TeV WITH THE CMS EXPERIMENT AT THE LHC, 2015 - 2020

EŞKUT E., Project Supported by Higher Education Institutions, Proton-Proton çarpışmalarında CMS'de oluşan ikili jet sisteminin çalışılması, 2012 - 2019

EŞKUT E., Project Supported by Higher Education Institutions, MEASUREMENTS of INCLUSIVE LOW-PT JETS CROSS-SECTION and AZIMUTHAL ANGLE DECORRELATION of JETS with LARGE RAPIDITY SEPARATION USING RUN 1 CMS DATA, 2011 - 2019

EŞKUT E., Project Supported by Higher Education Institutions, Bilimsel Yayın Teşvik Desteği, 2017 - 2018

EŞKUT E., BALDAN İ., Project Supported by Higher Education Institutions, Hadronik İleri Kalorimetre (HF)'de Kullanılan QIE10 Kartlarının Pedestal, CAPID, ICI Testleri, 2016 - 2018

EŞKUT E., Project Supported by Higher Education Institutions, CMS Deneyinde Higgs bozunumu ve özelliklerinin ölçülmesi, 2016 - 2017

EŞKUT E., Project Supported by Higher Education Institutions, CMS Deneyinde Standart Model ve Standart Model Ötesi

Fizik Arařtırmaları, 2014 - 2015

EřKUT E., Project Supported by Higher Education Institutions, VS=7 TeV lik Proton-Proton arpıřmasında İnküsif İleri

Jet Tesir Kesiti Hesaplaması, 2011 - 2014

Metrics

Publication: 373

Citation (WoS): 25520

Citation (Scopus): 21324

H-Index (WoS): 69

H-Index (Scopus): 78

Non Academic Experience

CERN

CERN

CERN (Avrupa Nükleer Arařtırma Merkezi)