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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 1985 - 1991

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1982 - 1985

Lisans, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1977 - 1982

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Genel alan ve parçacık teorisi, Özel parçacıkların özellikleri, Özel reaksiyonlar ve fenomenoloji, Özel teoriler ve etkileşme modelleri, parçacık sistematığı, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2003 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2003

Doç.Dr., Texas Tech University, College of Arts and Sciences, Physics and Astronomy, 2001 - 2002

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1996 - 1998

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1993 - 1996

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1982 - 1993

Mesleki Deneyim

Rektör Yardımcısı, Orta Doğu Teknik Üniversitesi, 2016 - Devam Ediyor

Bölüm Başkanı, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2012 - 2016

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2012

Yönetilen Tezler

ZEYREK M. T. , Cross-section measurements of SC-43 and V-48 radioisotopes produced via Bern medical cyclotron, Yüksek Lisans, G.SÖKMEN(Öğrenci), 2017

ZEYREK M. T. , Measurements of standard model heavy particle production in association with jets using proton-proton

collision data at 8 and 13 TeV with the CMS experiment at the LHC, Doktora, B.BİLİN(Öğrenci), 2017

ZEYREK M. T. , Search for supersymmetry (SUSY) with topological variables at the LHC, Yüksek Lisans, M.ÜNAL(Öğrenci), 2015

ZEYREK M. T. , Measurement of the cross section ratio $\sigma(\text{chic2})/\sigma(\text{chic1})$ for prompt chic production with CMS experiment, Doktora, I.VASİLEVA(Öğrenci), 2012

ZEYREK M. T. , Measurement of neutron background in Kuo-Sheng neutrino laboratory, Yüksek Lisans, İ.OZAN(Öğrenci), 2012

SERİN M., ZEYREK M. T. , Search for Z' via forward backward asymmetry in dielectron channel with the CMS detector at the large hadron collider, Yüksek Lisans, M.ÖZGÜR(Öğrenci), 2012

ZEYREK M. T. , Production of Z+jet and HF jet energy scale calibration at 7 TeV in the CMS experiment at LHC, Yüksek Lisans, B.BİLİN(Öğrenci), 2011

ZEYREK M. T. , Investigating the semileptonic B TO K1(1270; 1400) decays in QCD sum rules, Doktora, H.DAĞ(Öğrenci), 2010

ZEYREK M. T. , Study on non standard interaction of neutrino and unparticle physics with neutrino-electron scattering data at low energy in texono experiment, Yüksek Lisans, S.BİLMİŞ(Öğrenci), 2010

ZEYREK M. T. , Search for scalar and tensor unparticles in the diphoton final state in CMS experiment at the LHC, Yüksek Lisans, I.VASİLEVA(Öğrenci), 2009

ZEYREK M. T. , Production of scalars at electron colliders in the context of the littlest Higgs model, Doktora, A.ÇAĞIL(Öğrenci), 2009

ZEYREK M. T. , Supersymmetry with heavy scalars at the LHC, Doktora, S.SEKMEN(Öğrenci), 2008

ZEYREK M. T. , Search for a standard model Higgs boson in CMS via vector boson fusion in the $H \rightarrow WW \rightarrow l\nu l\nu$ channel and optimization of energy reconstruction in CMS using test beam 2006 data, Doktora, E.YAZGAN(Öğrenci), 2007

ZEYREK M. T. , Higgs formation at the black hole decays at Large Hadron Collider, Yüksek Lisans, S.SEKMEN(Öğrenci), 2003

ZEYREK M. T. , Observing higgs in weak boson fusion with forward jet tagging at the CERN CMS experiment, Doktora, H.DURAN(Öğrenci), 2002

ZEYREK M. T. , Search for $H \rightarrow ZZ \rightarrow 4l$ in vector boson fusion at CMS experiment at the large hadron collider, Yüksek Lisans, E.ÖZKAPICI(Öğrenci), 2001

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s(\text{NN})}=5.02$ 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, cilt.125, 2020 (SCI İndekslerine Giren Dergi)
- **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, 2020 (SCI İndekslerine Giren Dergi)
- **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 $\sqrt{s}=7$ 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, 2020 (SCI İndekslerine Giren Dergi)
- **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, cilt.15, 2020 (SCI İndekslerine Giren Dergi)

- **Strange hadron production in pp and pPb 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., Eroo J., Del Valle A. E. , et al.
PHYSICAL REVIEW C, cilt.101, 2020 (SCI İndekslerine Giren Dergi)
- **Measurement of differential cross sections and charge ratios for t-channel single top quark production 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.
EUROPEAN PHYSICAL JOURNAL C, cilt.80, 2020 (SCI İndekslerine Giren Dergi)
- **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., Eroo J., Del Valle A. E. , et al.
JOURNAL OF INSTRUMENTATION, cilt.15, 2020 (SCI İndekslerine Giren Dergi)
- **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., Eroo J., Del Valle A. E. , et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2020 (SCI İndekslerine Giren Dergi)
- **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda$ decay 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.
PHYSICS LETTERS B, cilt.802, 2020 (SCI İndekslerine Giren Dergi)
- **Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E. , et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2020 (SCI İndekslerine Giren Dergi)
- **Combined search for supersymmetry with photons 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.
PHYSICS LETTERS B, cilt.801, 2020 (SCI İndekslerine Giren Dergi)
- **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton 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., Eroo J., Del Valle A. E. , et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2020 (SCI İndekslerine Giren Dergi)
- **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks 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., Eroo J., Del Valle A. E. , et al.
PHYSICS LETTERS B, cilt.800, 2020 (SCI İndekslerine Giren Dergi)
- **Multiparticle correlation studies in pPb collisions $\sqrt{s_{NN}}=8.16$ 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 C, cilt.101, 2020 (SCI İndekslerine Giren Dergi)
- **Observation of nuclear modifications in W-+/- boson production in 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., Eroo J., Del Valle A. E. , et al.

- PHYSICS LETTERS B, cilt.800, 2020 (SCI İndekslerine Giren Dergi)
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, cilt.800, 2020 (SCI İndekslerine Giren Dergi)
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, cilt.80, 2020 (SCI İndekslerine Giren Dergi)
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, cilt.100, 2019 (SCI İndekslerine Giren Dergi)
Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root 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.
- PHYSICS LETTERS B, cilt.799, 2019 (SCI İndekslerine Giren Dergi)
The Belle II Physics Book
 Kou E., Urquijo P., Altmannshofer W., Beaujean F., Bell G., Beneke M., Bigi I. I. , Bishara F., Blanke M., Bobeth C., et al.
- PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2019 (SCI İndekslerine Giren Dergi)
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, cilt.123, 2019 (SCI İndekslerine Giren Dergi)
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, cilt.100, 2019 (SCI İndekslerine Giren Dergi)
Search for supersymmetry using Higgs boson to diphoton decays 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, 2019 (SCI İndekslerine Giren Dergi)
Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.
- PHYSICS LETTERS B, cilt.798, 2019 (SCI İndekslerine Giren Dergi)
Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities 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.
- EUROPEAN PHYSICAL JOURNAL C, cilt.79, 2019 (SCI İndekslerine Giren Dergi)
Search for new physics in top quark production in dilepton final states in proton-proton collisions at root s=13 TeV
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.
- EUROPEAN PHYSICAL JOURNAL C, cilt.79, 2019 (SCI İndekslerine Giren Dergi)

● **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states 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, 2019 (SCI İndekslerine Giren Dergi)

● **Measurement of the top quark polarization and $t(t)$ over-barspin correlations using dilepton final states in proton-proton collisions at root s=13 TeV**

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

PHYSICAL REVIEW D, cilt.100, 2019 (SCI İndekslerine Giren Dergi)

● **Charged-particle angular correlations in XeXe collisions at root 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, cilt.100, 2019 (SCI İndekslerine Giren Dergi)

● **Measurement of the top quark Yukawa coupling from $t(t)$ over-bar kinematic distributions in the lepton plus jets 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., Dragicevic M., Eroe J., Del Valle A. E. , et al.

PHYSICAL REVIEW D, cilt.100, 2019 (SCI İndekslerine Giren Dergi)

● **Search for resonances decaying to a pair of Higgs bosons in the $b(b)$ over-bar $q(q)$ over-bar ' l nu 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., Dragicevic M., Ero J., Escalante Del Valle A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI İndekslerine Giren Dergi)

● **Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum**

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, 2019 (SCI İndekslerine Giren Dergi)

● **Measurement of B-s(0) meson production in pp and PbPb 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., Eroe J., Del Valle A. E. , et al.

PHYSICS LETTERS B, cilt.796, ss.168-190, 2019 (SCI İndekslerine Giren Dergi)

● **A search for pair production of new light bosons decaying into muons 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.

PHYSICS LETTERS B, cilt.796, ss.131-154, 2019 (SCI İndekslerine Giren Dergi)

● **Search for vectorlike leptons in multilepton final states in proton-proton collisions at root s=13 TeV**

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

PHYSICAL REVIEW D, cilt.100, 2019 (SCI İndekslerine Giren Dergi)

● **Search for dark matter in events with a leptoquark 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.

PHYSICS LETTERS B, cilt.795, ss.76-99, 2019 (SCI İndekslerine Giren Dergi)

● **Measurement of electroweak WZ boson production and search for new physics in WZ plus two jets events 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.

- PHYSICS LETTERS B, cilt.795, ss.281-307, 2019 (SCI İndekslerine Giren Dergi)
Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton 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., Eroe J., Del Valle A. E. , et al.
- JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI İndekslerine Giren Dergi)
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, cilt.100, 2019 (SCI İndekslerine Giren Dergi)
Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp 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.
- PHYSICS LETTERS B, cilt.795, ss.398-423, 2019 (SCI İndekslerine Giren Dergi)
Studies of Beauty Suppression via Nonprompt D-0 Mesons in Pb-Pb 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., Eroe J., et al.
- PHYSICAL REVIEW LETTERS, cilt.123, 2019 (SCI İndekslerine Giren Dergi)
Search for charged Higgs bosons in the $H^{+/-} \rightarrow \tau^{+/-}\nu(\tau)$ 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, 2019 (SCI İndekslerine Giren Dergi)
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, cilt.14, 2019 (SCI İndekslerine Giren Dergi)
Search for invisible decays of a Higgs boson produced through vector boson fusion 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.
- PHYSICS LETTERS B, cilt.793, ss.520-551, 2019 (SCI İndekslerine Giren Dergi)
Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state
 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, cilt.99, 2019 (SCI İndekslerine Giren Dergi)
Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.
- PHYSICS LETTERS B, cilt.793, ss.320-347, 2019 (SCI İndekslerine Giren Dergi)
An embedding technique to determine tau tau backgrounds in proton-proton collision data
 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, cilt.14, 2019 (SCI İndekslerine Giren Dergi)
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, 2019 (SCI İndekslerine Giren Dergi)

Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to leptons

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

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Search for a low-mass $\tau(-)\tau(+)$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI İndekslerine Giren Dergi)

Search for a W' boson decaying to a tau lepton and a neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, cilt.792, ss.107-131, 2019 (SCI İndekslerine Giren Dergi)

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, cilt.79, 2019 (SCI İndekslerine Giren Dergi)

Search for an $L\text{-}\mu - L\text{-}\tau$ gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $\sqrt{s}=13$ TeV

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● **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**

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● **Search for pair production of second-generation leptoquarks at root s=13 TeV**

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● **Measurements of $t(\bar{t})$ over-bar differential cross sections in proton-proton collisions at root $s=13$ TeV using events containing two leptons**

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

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● **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**

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● **Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at root s=13 TeV**

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● **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**

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● **Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at root s(NN)=5.02 TeV Using Isolated Photon-Tagged Jets**

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● **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root s=13 TeV**

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● **Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at root s=13 TeV**

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● **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at root s=13TeV**

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

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● **Measurements of the differential jet cross section as a function of the jet mass in dijet events from**

proton -proton collisions at=13 TeV

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Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two tau leptons in proton-proton collisions at TeV

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Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV

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

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Study of jet quenching with isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=5.02 TeV

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Precision measurement of the structure of the CMS inner tracking system using nuclear interactions

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Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV

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Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two bquarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS Collaboration

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Performance of reconstruction and identification of tau leptons decaying to hadrons and nu(tau) in pp collisions at root s=13 TeV

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Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at root s=13 TeV

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● **Observation of the $Z \rightarrow \psi l^{(+)}l^{(-)}$ Decay in pp Collisions at $\sqrt{s}=13$ TeV**

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

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● **Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at $\sqrt{s}=13$ TeV**

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● **Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2l2q final states at $\sqrt{s}=13$ TeV**

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● **Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Search for Z gamma resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Observation of Higgs Boson Decay to Bottom Quarks**

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● **Neutron background measurements with a hybrid neutron detector at the Kuo-Sheng Reactor Neutrino Laboratory**

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● **Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV**

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● **Observation of the $\chi(b1)(3P)$ and $\chi(b2)(3P)$ and Measurement of their Masses**

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.

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● **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons 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, 2018 (SCI İndekslerine Giren Dergi)

● **Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at root s=13 TeV**

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JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **Search for R-parity violating supersymmetry in pp collisions at root s=13 TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**

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● **Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV**

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● **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root(NN)-N-s=8.16 TeV**

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

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● **Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter mediators and other new particles**

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JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **Search for disappearing tracks as a signature of new long-lived particles 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., Eroo J., et al.

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● **Search for beyond the standard model Higgs bosons decaying into a b(b)over-bar pair 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., Eroo J., et al.

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● **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead 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., Eroo J., Del Valle A. E. , et al.

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● **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., Eroo J., et al.

PHYSICS LETTERS B, cilt.782, ss.440-467, 2018 (SCI İndekslerine Giren Dergi)

● **Electroweak production of two jets in association with a Z boson in proton-proton collisions root 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.

EUROPEAN PHYSICAL JOURNAL C, cilt.78, 2018 (SCI İndekslerine Giren Dergi)

Measurement of the underlying event activity in inclusive Z boson production 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., Eroo J., et al.

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Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer

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Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at root s=13 TeV

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Measurement of the inelastic proton-proton cross section at root s=13 TeV

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Nuclear modification factor of D-0 mesons in PbPb collisions at root s(NN)=5.02 TeV

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PHYSICS LETTERS B, cilt.782, ss.474-496, 2018 (SCI İndekslerine Giren Dergi)

Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at root s=13 TeV

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JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

Search for a heavy resonance decaying into a Z boson and a vector boson in the $v(\nu)$ over-bar q(q)over-bar final state

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JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

Performance of the CMS muon detector and muon reconstruction with 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., Eroo J., et al.

JOURNAL OF INSTRUMENTATION, cilt.13, 2018 (SCI İndekslerine Giren Dergi)

Search for high-mass resonances in dilepton 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., Eroo J., et al.

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Observation of (tt)over-barH Production

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PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI İndekslerine Giren Dergi)

Search for dark matter in events with energetic, hadronically decaying top quarks 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., Eroee J., et al.

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Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV

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JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI Indekslerine Giren Dergi)

Search for single production of vector-like quarks decaying to a b quark and a Higgs boson

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

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Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at root s=13 TeV

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PHYSICS LETTERS B, cilt.781, ss.574-600, 2018 (SCI Indekslerine Giren Dergi)

Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV

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

PHYSICAL REVIEW C, cilt.97, 2018 (SCI Indekslerine Giren Dergi)

Search for t(t)over-barH production in the all-jet final state in proton-proton collisions root s=13 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI Indekslerine Giren Dergi)

Search for a new scalar resonance decaying to a pair of Z bosons 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., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI Indekslerine Giren Dergi)

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., Eroee J., et al.

PHYSICS LETTERS B, cilt.781, ss.390-411, 2018 (SCI Indekslerine Giren Dergi)

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., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI Indekslerine Giren Dergi)

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., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI Indekslerine Giren Dergi)

Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons 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., Brondolin E., Dragicevic M., Eroee J., et al.

PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI Indekslerine Giren Dergi)

● **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **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., Eroe J., et al.

PHYSICAL REVIEW D, cilt.97, 2018 (SCI İndekslerine Giren Dergi)

● **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at root s=13 TeV**

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PHYSICS LETTERS B, cilt.781, ss.244-269, 2018 (SCI İndekslerine Giren Dergi)

● **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., Eroe J., et al.

PHYSICS LETTERS B, cilt.781, ss.517-541, 2018 (SCI İndekslerine Giren Dergi)

● **Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets root s at=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **Measurement of Prompt D^0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV**

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

PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI İndekslerine Giren Dergi)

● **Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at root s=13 TeV**

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

PHYSICAL REVIEW LETTERS, cilt.120, 2018 (SCI İndekslerine Giren Dergi)

● **Search for natural and split supersymmetry in proton-proton collisions at root s=13 TeV in final states with jets and missing transverse momentum**

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, 2018 (SCI İndekslerine Giren Dergi)

● **Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the 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., Eroe J., et al.

PHYSICS LETTERS B, cilt.780, ss.384-409, 2018 (SCI İndekslerine Giren Dergi)

● **Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at root s=13 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, 2018 (SCI İndekslerine Giren Dergi)

● **Measurement of quarkonium production cross sections in pp collisions at root s=13 TeV**

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● **Measurement of the Lambda(b) polarization and angular parameters in Lambda(b) -> J/psi Lambda decays from pp collisions at root s=7 and 8 TeV**

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● **Measurement of the associated production of a single top quark and a Z boson in pp collisions at, root s=13 TeV**

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● **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Particle-flow reconstruction and global event description with the CMS detector**

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● **Search for top squark pair production in pp collisions at root s=13 TeV using single lepton events**

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● **Measurements of jet charge with dijet events in pp collisions at root s=8 TeV**

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● **Search for direct production of super symmetric partners of the top quark in the all-jets final state in proton-proton collisions at root s=13 TeV**

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● **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)=8 TeV**

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● **Search for leptophobic Z ' bosons decaying into four-lepton final states in proton-proton collisions at root s=8 TeV**

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Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root $s=13\text{TeV}$

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Search for standard model production of four top quarks in proton-proton collisions at root $s=13\text{TeV}$

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Search for high-mass Z gamma resonances in proton-proton collisions at root $s=8$ and 13TeV using jet substructure techniques

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Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at root $s(\text{NN})=2.76\text{TeV}$ with the CMS experiment

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Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at root $s=13\text{TeV}$

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Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root $s_{\text{NN}}=5.02\text{TeV}$

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● **Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at root $s=13$ TeV**

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● **Measurement of the top quark mass in the dileptonic $t(\bar{t})$ decay channel using the mass observables M_{bl} , M_{T2} , and M_{blv} in pp collisions at root=8 TeV**

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● **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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● **Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state**

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● **Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV**

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● **Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13TeV**

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● **Measurement of the jet mass in highly boosted $t(\bar{t})$ events from pp collisions at root $s=8$ TeV**

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● **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root $s_{NN}=5.02$ TeV**

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● **Measurement of the cross section for electroweak production of Z gamma in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at root $s=8$ TeV**

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● **Search for $t(\bar{t})$ resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at root $s=13$ TeV**

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● **Search for new physics with dijet angular distributions in proton-proton collisions at root $S = 13$ TeV**

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● **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at root $S=13$ TeV**

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● **Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at root $s=13$ TeV**

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● **Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at root $s=8$ TeV**

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● **Measurement of double-differential cross sections for top quark pair production in pp collisions at root $s=8$ TeV and impact on parton distribution functions**

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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● **Measurement of the mass difference between top quark and antiquark in pp collisions at root $s=8$ TeV**

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● **Suppression of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ quarkonium states in PbPb collisions at root $S_{NN}=2.76$ 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, cilt.770, ss.357-379, 2017 (SCI İndekslerine Giren Dergi)

● **Measurement of inclusive jet cross sections in pp and PbPb collisions at root $s(NN)=2.76$ 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 C, cilt.96, 2017 (SCI İndekslerine Giren Dergi)

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

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

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- **Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at root $s=13$ TeV**
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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- **Measurement of electroweak-induced production of W gamma with two jets in pp collisions at root $s=8$ TeV and constraints on anomalous quartic gauge couplings**
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- **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV**
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- **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**
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- **Measurement of the top quark mass using single top quark events in proton-proton collisions at root $s=8$ TeV**
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- **Search for narrow resonances in dilepton mass spectra in proton-proton collisions at root $s=13$ TeV and combination with 8 TeV data**
Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**
Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- **Searches for pair production of third-generation squarks in root $s=13$ TeV pp collisions**

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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A search for new phenomena in pp collisions at root s=13TeV in final states with missing transverse momentum and at least one jet using the alpha(T) variable

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

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Observation of gamma(1S) pair production 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.

JOURNAL OF HIGH ENERGY PHYSICS, 2017 (SCI İndekslerine Giren Dergi)

Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at root s(NN)=5.02 TeV

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

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

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Suppression and azimuthal anisotropy of prompt and nonprompt J/psi production in PbPb collisions at root S-NN=2.76 TeV

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

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

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Charged-particle nuclear modification factors in PbPb and pPb collisions at root s(NN)=5.02 TeV

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JOURNAL OF HIGH ENERGY PHYSICS, 2017 (SCI İndekslerine Giren Dergi)

Mechanical stability of the CMS strip tracker measured with a laser alignment system

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● **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at root $s=8\text{ TeV}$**

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● **Combined search for anomalous pseudoscalar HW couplings in $VH(H \rightarrow b(\bar{b}))$ production and $H \rightarrow VV$ decay**

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● PHYSICS LETTERS B, cilt.759, ss.672-696, 2016 (SCI İndekslerine Giren Dergi)

● **Search for supersymmetry in pp collisions at root $s=13\text{ TeV}$ in the single-lepton final state using the**

sum of masses of large-radius jets

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

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Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at root s=7 and 8 TeV

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Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at root s=8 TeV

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Study of Z boson production in pPb collisions at root S-NN=5.02 TeV

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

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Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at root s=8 and 13 TeV

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Search for Narrow Resonances in Dijet Final States at root s=8 TeV with the Novel CMS Technique of Data Scouting

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

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Measurement of the W+W- cross section in pp collisions at root s=8 TeV and limits on anomalous gauge couplings

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Measurement of t(t)over-bar production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at root s=8TeV

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Search for a low-mass pseudoscalar Higgs boson produced in association with a b(b)over-bar pair in pp collisions at root s=8 TeV

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Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks

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Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at root s=8 TeV
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Measurement of the CP-violating weak phase $\phi(s)$ and the decay width difference $\Delta\Gamma(s)$ using the $B_s(0) \rightarrow J/\psi \phi(1020)$ decay channel in pp collisions at root s=8 TeV
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Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at root s=8 TeV
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Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV

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Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at root s=7 and 8 TeV

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Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau\tau$

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Event generator tunes obtained from underlying event and multiparton scattering measurements
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Measurement of the t(t)over-bar production cross section in the all-jets final state in pp collisions at root s=8TeV
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Transverse momentum spectra of inclusive b jets in pPb collisions atv root s(NN)=5.02 TeV
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Measurement of the charge asymmetry in top quark pair production in pp collisions at root s=8 TeV using a template method
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Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at root s=13 TeV

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Search for pair production of first and second generation leptoquarks in proton-proton collisions at root s=8 TeV

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Correlations between jets and charged particles in PbPb and pp collisions at root s(NN)=2.76 TeV

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Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at root s=8 TeV

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

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Observation of top quark pairs produced in association with a vector boson in pp collisions at root s=8 TeV

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Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons in pp collisions at root s=8 TeV

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Search for resonant t(t)over-bar production in proton-proton collisions at root s=8 TeV

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Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at root s=8 TeV

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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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Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays

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

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Search for neutral MSSM Higgs bosons decaying to mu(+) mu(-) in pp collisions at root s=7 and 8 TeV

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A search for pair production of new light bosons decaying into muons

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Reconstruction and identification of tau lepton decays to hadrons and nu(tau) at CMS

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Search for a light charged Higgs boson decaying to c(s)over-bar in pp collisions at root s=8 TeV

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Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root s=8 TeV

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Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root s=8 TeV

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

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

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Angular coefficients of Z bosons produced in pp collisions at root S=8 TeV and decaying to mu(+)-mu(-) as a function of transverse momentum and rapidity

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Observation of the rare B-s(0)->mu(+)-mu(-) decay from the combined analysis of CMS and LHCb

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● Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s}=8$ TeV

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● Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s}=7$ TeV

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● Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV

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● Measurement of J/psi and psi(2S) Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV

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● Search for a standard model-like Higgs boson in the $\mu^{+}\mu^{-}$ and $e^{+}e^{-}$ decay channels at the LHC

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● **Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments**

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● **Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8\text{TeV}$**

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● **Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**

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● **Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV**

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● **Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV**

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

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● **Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range**

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● **Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV**

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● **Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8\text{TeV}$**

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● **Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing**

transverse momentum in pp collisions at 8 TeV

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Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=8\text{ TeV}$

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Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s}=8\text{TeV}$

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Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$

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Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies

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Performance of the CMS missing transverse momentum reconstruction in pp data at root s=8 TeV

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Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at root s=8 TeV

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Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters

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Measurement of the muon charge asymmetry in inclusive pp -> W plus X production at root s=7 TeV and an improved determination of light parton distribution functions

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● **Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at root s=8 TeV**

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● **Measurement of the production cross section for a W boson and two b jets in pp collisions at root s=7 TeV**

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● **Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at root s(NN)=5.02 TeV**

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● **Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at root s=7 TeV**

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● **Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at root s=8 TeV**

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● **Observation of a peaking structure in the J/psi phi mass spectrum from B-+/- -> J/psi phi K-+/- decays**

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● **Measurement of the t-channel single-top-quark production cross section and of the |V (tb)| CKM matrix element in pp collisions at root s=8 TeV**

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● **Measurement of the top-quark mass in all-jets $t(\bar{t})$ events in pp collisions at root $s=7$ TeV**
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● **Search for baryon number violation in top-quark decays**
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● **Search for Top-Quark Partners with Charge 5/3 in the Same-Sign Dilepton Final State**
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● **Event activity dependence of (nS) production in $\sqrt{s}=5.02$ TeV pPb and $\sqrt{s}=2.76$ TeV pp collisions**
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● **Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at root $s(NN)=2.76$ TeV**
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● **Measurements of the $t(\bar{t})$ Overbar charge asymmetry using the dilepton decay channel in pp collisions at root $s=7$ TeV**
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● **Study of double parton scattering using $W+2$ -jet events in proton-proton collisions at root $s=7$ TeV**
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● **Modification of jet shapes in PbPb collisions at root $s(NN)=2.76$ TeV**
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● **Searches for light- and heavy-flavour three-jet resonances in pp collisions at root $s=8$ TeV**
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● **Measurement of the $t(\bar{t})$ overbar production cross section in the dilepton channel in pp collisions at root $s=8$ TeV**
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● **Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at root $s=8$ TeV**
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● **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at root s=7 TeV**

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

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The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC

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Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at root s=7 TeV
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● **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**

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● **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**

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

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

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

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● **Search for anomalous production of highly boosted Z bosons decaying to mu(+)-mu(-) in proton-proton collisions at root s=7 TeV**

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

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● **Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network**

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● **Identification of b-quark jets with the CMS experiment**

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

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● **Search for pair-produced dijet resonances in four-jet final states in pp collisions at root s=7 TeV**

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

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

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Toplam Atıf Sayısı (WOS):52666

h-indeksi (WOS):102