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Personal Information

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Publons / Web Of Science ResearcherID: ABA-7235-2020

ScopusID: 6701455465

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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (Dr), Turkey 1985 - 1991

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (YI) (Tezli), Turkey 1982 - 1985

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 1977 - 1982

Foreign Languages

English, C1 Advanced

Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Properties of special particles, Special reactions and phenomenology, Special theories and interaction models, particle systematics, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2003 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1998 - 2003

Associate Professor, Texas Tech University, College of Arts and Sciences, Physics and Astronomy, 2001 - 2002

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1996 - 1998

Lecturer, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1993 - 1996

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1982 - 1993

Academic and Administrative Experience

Middle East Technical University, 2016 - Continues

Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2012 - 2016

Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2009 - 2012

Supervised Theses

ZEYREK M. T., Cross-section measurements of SC-43 and V-48 radioisotopes produced via Bern medical cyclotron, Postgraduate, G.SÖKMEN(Student), 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, Doctorate, B.BİLİN(Student), 2017

ZEYREK M. T., Search for supersymmetry (SUSY) with topological variables at the LHC, Postgraduate, M.ÜNAL(Student), 2015

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

ZEYREK M. T., Measurement of the cross section ratio $\sigma(\text{chic}2)/\sigma(\text{chic}1)$ for prompt chic production with CMS experiment, Doctorate, I.VASİLEVA(Student), 2012

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

ZEYREK M. T., Measurement of the cross section ratio $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ for prompt χc production with CMS experiment, Doctorate, I.Vasileva(Student), 2012

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

ZEYREK M. T., Investigating the semileptonic B to K1(1270,1400) decays in QCD sum rules, Doctorate, H.Dağ(Student), 2010

ZEYREK M. T., Investigating the semileptonic B TO K1(1270; 1400) decays in QCD sum rules, Doctorate, H.DAĞ(Student), 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, Postgraduate, S.BİLMİŞ(Student), 2010

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

ZEYREK M. T., Production of scalars at electron colliders in the context of littlest higgs model, Doctorate, A.Çağıl(Student), 2009

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

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

ZEYREK M. T., Search for a standard model Higgs boson in CMS via vector boson fusion in the H->WW->lvlv channel and optimization of energy reconstruction in CMS using test beam 2006 data, Doctorate, E.YAZGAN(Student), 2007

ZEYREK M. T., Search for a standart model Higgs Boson in CMS via vector boson fusion in the H-WW-lvlv channel and optimization of energy reconstruction in CMS using test beam 2006 data, Doctorate, E.Yazgan(Student), 2007

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

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

ZEYREK M. T., Search for H-ZZ-IIjj in vector boson fusion at CMS experiment at the large hadron collider, Postgraduate, E.ÖZKAPICI(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ with the CMS and TOTEM experiments**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Valle A. E. D., et al.
European Physical Journal C, vol.80, no.12, 2020 (SCI-Expanded)
- II. **Observation of electroweak production of W gamma with two jets in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.811, 2020 (SCI-Expanded)
- III. **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., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.12, 2020 (SCI-Expanded)
- IV. **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, vol.2020, no.12, 2020 (SCI-Expanded)
- V. **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, vol.2020, no.11, 2020 (SCI-Expanded)
- VI. **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)
- VII. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.7, 2020 (SCI-Expanded)
- VIII. **Measurement of $t(\bar{t})$ normalised multi-differential cross sections in pp collisions at root s=13 TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.7, 2020 (SCI-Expanded)
- IX. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)
- X. **Determination of the strong coupling constant $\alpha(S)(m(Z))$ from measurements of inclusive W+/- and Z boson production cross sections in proton-proton collisions at root s=7 and 8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.6, 2020 (SCI-Expanded)
- XI. **Strange hadron production in pp and pPb collisions at root(NN)-N-s=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

- Valle A. E., et al.
PHYSICAL REVIEW C, vol.101, no.6, 2020 (SCI-Expanded)
- XII. **Study of J/psi meson production inside jets in pp collisions at $\sqrt{s}=8$ TeV** The CM Collaboration
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.804, 2020 (SCI-Expanded)
- XIII. **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., Eroe J., Del Valle A. E., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.5, 2020 (SCI-Expanded)
- XIV. **Search for high mass dijet resonances with a new background prediction method 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, vol.2020, no.5, 2020 (SCI-Expanded)
- XV. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.4, 2020 (SCI-Expanded)
- XVI. **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., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.3, 2020 (SCI-Expanded)
- XVII. **A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Del Valle A. E., Flechl M., et al.
European Physical Journal C, vol.80, no.3, 2020 (SCI-Expanded)
- XVIII. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.3, 2020 (SCI-Expanded)
- XIX. **Observation of the $\Lambda(0)b \rightarrow J/\psi \Lambda \phi$ 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., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.802, 2020 (SCI-Expanded)
- XX. **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., Eroe J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.2, 2020 (SCI-Expanded)
- XXI. **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., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.801, 2020 (SCI-Expanded)
- XXII. **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., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW C, vol.101, no.1, 2020 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Observation of nuclear modifications in W - \pm 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., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)
- XXV. **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., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)
- XXVI. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio 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, vol.800, 2020 (SCI-Expanded)
- XXVII. **Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Erö J., Escalante Del Valle A., et al.
European Physical Journal C, vol.80, no.1, 2020 (SCI-Expanded)
- XXVIII. **Pseudorapidity distributions of charged hadrons in xenon-xenon 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.
PHYSICS LETTERS B, vol.799, 2019 (SCI-Expanded)
- XXIX. **Probing the chiral magnetic wave in pPb and PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV using charge-dependent azimuthal anisotropies**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW C, vol.100, no.6, 2019 (SCI-Expanded)
- XXX. **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, vol.2019, no.12, 2019 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.123, no.23, 2019 (SCI-Expanded)
- XXXIII. **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, vol.798, 2019 (SCI-Expanded)

XXXIV. **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, vol.79, no.11, 2019 (SCI-Expanded)

XXXV. **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, vol.79, no.11, 2019 (SCI-Expanded)

XXXVI. **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, vol.2019, no.11, 2019 (SCI-Expanded)

XXXVII. **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, vol.2019, no.11, 2019 (SCI-Expanded)

XXXVIII. **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, vol.100, no.7, 2019 (SCI-Expanded)

XXXIX. **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, vol.2019, no.10, 2019 (SCI-Expanded)

XL. **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, vol.2019, no.10, 2019 (SCI-Expanded)

XLI. **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, vol.100, no.4, 2019 (SCI-Expanded)

XLII. **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, vol.100, no.7, 2019 (SCI-Expanded)

XLIII. **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, vol.796, pp.131-154, 2019 (SCI-Expanded)

- XLIV. **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, vol.100, no.5, 2019 (SCI-Expanded)
- XLV. **Measurement of $B\text{-}s(0)$ meson production in pp and PbPb collisions at root $S\text{-}NN=5.02$ 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, vol.796, pp.168-190, 2019 (SCI-Expanded)
- XLVI. **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, vol.795, pp.281-307, 2019 (SCI-Expanded)
- XLVII. **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 p 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, vol.2019, no.8, 2019 (SCI-Expanded)
- XLVIII. **Centrality and pseudorapidity dependence of the transverse energy density in pPb 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., Ero J., et al.
PHYSICAL REVIEW C, vol.100, no.2, 2019 (SCI-Expanded)
- XLIX. **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, vol.795, pp.398-423, 2019 (SCI-Expanded)
- L. **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, vol.795, pp.76-99, 2019 (SCI-Expanded)
- LI. **Performance of missing transverse momentum reconstruction in proton-proton collisions at root $s=13$ 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)
- LII. **Search for charged Higgs bosons in the $H\text{-}+/- \rightarrow \tau(+/-)\nu(\tau)$ decay channel in proton-proton collisions at $s=13$ 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, vol.2019, no.7, 2019 (SCI-Expanded)
- LIII. **Studies of Beauty Suppression via Nonprompt D-0 Mesons 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, vol.123, 2019 (SCI-Expanded)
- LIV. **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, vol.14, 2019 (SCI-Expanded)

- LV. **Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.793, pp.520-551, 2019 (SCI-Expanded)
- LVI. **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 root 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, vol.793, pp.320-347, 2019 (SCI-Expanded)
- LVII. **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.
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- LVIII. **Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at=13 TeV via Higgs boson decays to leptons**
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- LIX. **Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV**
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- LX. **Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at root s=13 TeV**
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- LXI. **Measurement of inclusive very forward jet cross sections in proton-lead collisions at p sNN=5:02 TeV**
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- LXII. **Measurement and interpretation of differential cross sections for Higgs boson production at root s=13 TeV**
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- LXIII. **Search for an L-mu - L-tau gauge boson using Z -> 4 mu events in proton-proton collisions at root s=13 TeV**
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- LXIV. **Search for a low-mass tau(-)tau(+) resonance in association with a bottom quark in proton-proton collisions at root s=13 TeV**
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- LXV. **Search for a W boson decaying to a tau lepton and a neutrino in proton-proton collisions at root $s=13$ TeV**
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- LXVI. **Combinations of single-top-quark production cross-section measurements and vertical bar $f(LV)V(tb)$ vertical bar determinations at root $s=7$ and 8 TeV with the ATLAS and CMS experiments**
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- LXVII. **Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at root $s=13$ TeV**
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- LXVIII. **Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at root $s(NN)=8.16$ TeV**
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- LXXIII. **Search for resonant $t(\bar{t})$ production in proton-proton collisions at root $s=13$ TeV**
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- LXXV. **Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at root S -NN=5.02 TeV**
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- LXXVI. **Search for nonresonant Higgs boson pair production in the $b(\bar{b})\text{-}b(\bar{b})$ final state at $\sqrt{s}=13$ TeV**
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- LXXVII. **Measurements of the pp WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13$ TeV**
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- LXXVIII. **Measurement of nuclear modification factors of $\gamma(1S)$, $\gamma(2S)$, and $\gamma(3S)$ mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- LXXIX. **Search for the pair production of light top squarks in the $e(+/-)\mu(-/+)$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXX. **Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXXI. **Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using razor variables and boosted object identification in zero and one lepton final states**
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- LXXXII. **Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXXIII. **Search for Narrow H γ Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- LXXXV. **Search for pair production of first-generation scalar leptoquarks at $\sqrt{s}=13$ TeV**
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- LXXXVI. **Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- LXXXVII. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at root $s=13$ TeV**
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- LXXXVIII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**
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- LXXXIX. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at root $s(NN)=5.02$ TeV**
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- XC. **Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at root $s=13$ TeV**
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- XCII. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at root $s=13$ TeV**
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- XCIII. **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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- XCIII. **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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- XCIV. **Search for the chiral magnetic effect at the LHC with the CMS experiment**
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- XCIV. **Measurement of anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment**
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- XCVI. **Search for new particles decaying to a jet and an emerging jet**
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- XCVII. **Measurement of differential cross sections for Z boson pair production in association with jets at root $s=8$ and 13 TeV**

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XCIX. Multiparticle correlations and higher order harmonics in pPb collisions at root $s(NN)=8.16$ TeV

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C. 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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CI. Search for long-lived particles decaying into displaced jets in proton-proton collisions at root $s=13$ TeV

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CII. Evidence for light-by-light scattering in ultraperipheral PbPb collisions at root $S-NN=5.02$ TeV

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CIII. Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions

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CIV. Fragmentation of J/psi in jets in pp collisions at root $s=5.02$ TeV Batoul Diab for the CMS collaboration

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

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CV. Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root $S-NN=5.02$ TeV

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CVI. Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at root $s=13$ TeV

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

CVII. 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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CVIII. Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root $s=13$ TeV

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- CIX. **Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at root s = TeV**
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- CXI. **Search for pair-produced three-jet resonances in proton-proton collisions at root s=13 TeV**
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- CXII. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**
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- CXIII. **Search for Higgs boson pair production in the gamma gamma b(b)over-bar final state in pp collisions at root s=13 TeV**
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- CXIV. **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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- CXV. **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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- CXVI. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV**
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- CXVII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV**
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- CXVIII. **Angular analysis of the decay B+ -> K+mu(+)mu(-) in proton-proton collisions at root s=8 TeV**
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- CXIX. **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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- CXX. **Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV**
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- CXXI. **Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at root s=13 TeV**
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- CXXII. **Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at root s=13 TeV**
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- CXXIII. **Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at root s=13 TeV**
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- CXXIV. **Measurement of jet substructure observables in $t(\bar{t})$ events from proton-proton collisions at root s=13 TeV**
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- CXXV. **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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- CXXVI. **Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons 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.
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- CXXVII. **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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- CXXVIII. **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**
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- CXXIX. **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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- CXXX. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**
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- CXXXI. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
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- CXXXII. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**
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- CXXXIV. **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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- CXXXV. **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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- CXXXVI. **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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- CXXXVII. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**
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- CXXXVIII. **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**
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- CXXXIX. **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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- CXL. **Precision measurement of the structure of the CMS inner tracking system using nuclear interactions**

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CXLI. 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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CXLII. 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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CXLIII. Observation of the $Z \rightarrow \psi l^{+}l^{-}$ Decay 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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CXLIV. Measurement of the groomed jet mass in PbPb 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., Eroo J., Del Valle A. E., et al.

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CXLV. Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root $s=13$ TeV

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CXLVI. Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2l2q$ final states 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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CXLVII. Observation of Higgs Boson Decay to Bottom Quarks

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

PHYSICAL REVIEW LETTERS, vol.121, no.12, 2018 (SCI-Expanded)

CXLVIII. Search for Z gamma resonances using leptonic and hadronic 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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CXLIX. Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or $\tau^{+}\tau^{-}$ at root $s=13$ 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.

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CL. Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton 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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CLI. Neutron background measurements with a hybrid neutron detector at the Kuo-Sheng Reactor

Neutrino Laboratory

Sonay A., DENİZ M., Wong H. T., Agartioglu M., Asryan G., Chen J. H., KERMAN S., Li H. B., Li J., Lin F. K., et al.
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- CLII. **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., Dragicovic M., Eroe J., Del Valle A. E., et al.
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- CLIII. **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., Dragicovic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CLIV. **Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicovic M., Eroe J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.98, no.3, 2018 (SCI-Expanded)
- CLV. **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 root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicovic M., Eroe J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CLVI. **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., Dragicovic M., Eroe J., Del Valle A. E., et al.
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- CLVII. **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**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicovic M., Eroe J., et al.
PHYSICS LETTERS B, vol.783, pp.114-139, 2018 (SCI-Expanded)
- CLVIII. **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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- CLIX. **Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root $(NN)-N-s=8.16$ TeV**
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- CLX. **Search for beyond the standard model Higgs bosons decaying into a $b(b)\overline{b}$ pair in pp collisions at root $s=13$ TeV**
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- CLXI. **Search for vector-like T and B quark pairs in final states with leptons at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicovic M., Eroe J., et al.
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- CLXII. **Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV**
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- CLXIII. **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**
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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- CLXIV. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV**
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- CLXV. **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., Eroee J., et al.
PHYSICS LETTERS B, vol.782, pp.440-467, 2018 (SCI-Expanded)
- CLXVI. **Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu(\nu)$ over-bar q(q)over-bar final state**
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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- CLXVII. **Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events 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., Eroee J., et al.
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- CLXVIII. **Nuclear modification factor of D-0 mesons in PbPb 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., Eroee J., et al.
PHYSICS LETTERS B, vol.782, pp.474-496, 2018 (SCI-Expanded)
- CLXIX. **Measurement of the inelastic proton-proton cross section at root s=13 TeV**
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- CLXX. **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., Eroee J., et al.
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- CLXXI. **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**
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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- CLXXII. **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**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

- JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)
- CLXXIII. **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., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)
- CLXXIV. **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**
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, vol.781, pp.574-600, 2018 (SCI-Expanded)
- CLXXV. **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., Eroo J., et al.
PHYSICS LETTERS B, vol.781, pp.517-541, 2018 (SCI-Expanded)
- CLXXVI. **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., Eroo J., et al.
PHYSICAL REVIEW C, vol.97, no.6, 2018 (SCI-Expanded)
- CLXXVII. **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., Eroo J., et al.
PHYSICS LETTERS B, vol.781, pp.390-411, 2018 (SCI-Expanded)
- CLXXVIII. **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., Eroo J., et al.
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- CLXXIX. **Search for $t\bar{t}$ 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., Eroo J., et al.
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- CLXXX. **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., Eroo J., et al.
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- CLXXXI. **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., Eroo J., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.24, 2018 (SCI-Expanded)
- CLXXXII. **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, vol.13, 2018 (SCI-Expanded)
- CLXXXIII. **Observation of $t\bar{t}$ Production**

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

PHYSICAL REVIEW LETTERS, vol.120, no.23, 2018 (SCI-Expanded)

CLXXXIV. **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., Dragicovic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CLXXXV. **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., Dragicovic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CLXXXVI. **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**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CLXXXVII. **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., Dragicovic M., Eroee J., et al.

PHYSICAL REVIEW D, vol.97, no.11, 2018 (SCI-Expanded)

:LXXXVIII. **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., Dragicovic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CLXXXIX. **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**

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

PHYSICS LETTERS B, vol.781, pp.244-269, 2018 (SCI-Expanded)

CXC. **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., Dragicovic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CXCI. **Evidence for the Higgs boson decay to a bottom quark-antiquark pair**

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

PHYSICS LETTERS B, vol.780, pp.501-532, 2018 (SCI-Expanded)

CXCII. **Search for new long-lived particles at root s=13 TeV**

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

PHYSICS LETTERS B, vol.780, pp.432-454, 2018 (SCI-Expanded)

CXCIII. **Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at root s=13 TeV**

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

PHYSICAL REVIEW D, vol.97, no.9, 2018 (SCI-Expanded)

CXCIV. **Search for natural and split supersymmetry in proton-proton collisions at root s=13 TeV in final**

states with jets and missing transverse momentum

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- CCXXXIII. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
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- CCXLVI. **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 $\sqrt{s}=13$ TeV**
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- CCXLIX. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at root $s=13$ TeV**
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- CCLIII. **Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root $s=13$ TeV**
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- CCLIV. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
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- CCLV. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at root $s=13$ TeV**
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- CCLVIII. **Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at root s=13 TeV**
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- CCLIX. **Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at root s=13 TeV**
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- CCLX. **Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at root s=13 TeV**
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- CCLXI. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root s=13 TeV**
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- CCLXII. **Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at root s=8 TeV**
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- CCLXIII. **Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at root s=13 TeV**
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- CCLXIV. **Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at root s=8 and 13 TeV**
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- CCLXV. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
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- CCLXVI. **Design and performance of a hybrid fast and thermal neutron detector**
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- CCLXVII. **Measurements of the pp -> W gamma gamma and pp -> Z gamma gamma cross sections and limits on anomalous quartic gauge couplings 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.
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- CCLXVIII. **Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXIX. **Measurement of the $B\rightarrow\tau\nu$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ 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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- CCLXX. **Measurement of the semileptonic $t\bar{t}\rightarrow\tau\bar{\nu}_\tau+\gamma$ production cross section in pp collisions at $\sqrt{s}=8$ TeV**
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- CCLXXI. **Search for Higgs boson pair production in the $b\bar{b}\tau\bar{\nu}_\tau$ state in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCLXXII. **Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXXIII. **Measurements of jet charge with dijet events in pp collisions at $\sqrt{s}=8$ TeV**
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- CCLXXIV. **Search for Supersymmetry in pp Collisions at $\sqrt{s}=13$ TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
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- CCLXXV. **Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXXVI. **Search for direct production of super symmetric partners of the top quark in the all-jets 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., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXXVII. **Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCLXXVIII. **Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXXIX. **Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\gamma\gamma$ at $\sqrt{s}=13$ 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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- CCLXXX. **Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events**
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- CCLXXXI. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV**
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- CCLXXXII. **Particle-flow reconstruction and global event description with the CMS detector**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- CLXXXIII. **Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s}=13$ 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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- CLXXXIV. **Search for high-mass Z gamma resonances in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV using jet substructure techniques**
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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- CCLXXXV. **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}}=5.02$ 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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- CLXXXVI. **Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the CMS experiment**
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PHYSICS LETTERS B, vol.772, pp.489-511, 2017 (SCI-Expanded)
- CLXXXVII. **Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
PHYSICS LETTERS B, vol.772, pp.634-656, 2017 (SCI-Expanded)
- CLXXXVIII. **Search for Low Mass Vector Resonances Decaying to 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., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.11, 2017 (SCI-Expanded)
- CLXXXIX. **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=13TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)

- CCXC. **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.
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- CCXCI. **Search for new phenomena with multiple charged leptons in proton-proton collisions 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.
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- CCXCII. **Search for a heavy resonance decaying to a top quark and a vector-like top quark 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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- CCXCIII. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCXCIV. **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.
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- CCXCV. **Constraints on nonstandard intermediate boson exchange models from neutrino-electron scattering**
Sevda B., Sen A., DEMİRCİ M., DENİZ M., Agartioğlu M., Ajjaq A., KERMAN S., Singh L., Sonay A., Wong H. T., et al.
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- CCXCVI. **Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13TeV**
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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- CCXCVII. **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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- CCXCVIII. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 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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- CCXCIX. **Measurement of the inclusive energy spectrum in the very forward direction 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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- CCC. **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)
- CCCI. **Search for supersymmetry in multijet events with 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., Eroe J., et al.
PHYSICAL REVIEW D, vol.96, no.3, 2017 (SCI-Expanded)
- CCCII. **Measurement of the differential inclusive B+ hadron cross sections in pp collisions 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.771, pp.435-456, 2017 (SCI-Expanded)
- CCCIII. **Search for top quark partners with charge 5/3 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.8, 2017 (SCI-Expanded)
- CCCIV. **Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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.357-379, 2017 (SCI-Expanded)
- CCCIV. **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)
- CCCVI. **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)
- CCCVII. **Search for supersymmetry in the all-hadronic final state using top quark tagging 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.
PHYSICAL REVIEW D, vol.96, no.1, 2017 (SCI-Expanded)
- CCCVIII. **Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson 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)
- CCCIX. **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**
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)
- CCCX. **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)
- CCCXI. **Search for new physics with dijet angular distributions 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)
- CCCXII. **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, vol.96, no.1, 2017 (SCI-Expanded)
- CCCXIII. **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.
JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2017 (SCI-Expanded)
- CCCXIV. **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)
- CCCXV. **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=5.02 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, vol.96, no.1, 2017 (SCI-Expanded)
- CCCXVI. **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.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.7, 2017 (SCI-Expanded)
- CCCXVII. **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)
- CCCXVIII. **Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 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.769, pp.391-412, 2017 (SCI-Expanded)
- CCCXIX. **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)
- CCCXX. **Search for dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter and other models**
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.769, pp.520-542, 2017 (SCI-Expanded)
- CCCXXI. **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)
- CCCXXII. **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.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.5, 2017 (SCI-Expanded)
- CCCXXIII. **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)
- CCCXXIV. **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.
PHYSICS LETTERS B, vol.768, pp.103-129, 2017 (SCI-Expanded)
- CCCXXV. **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)
- CCCXXVI. **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.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.5, 2017 (SCI-Expanded)
- CCCXXVII. **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, no.5, 2017 (SCI-Expanded)
- CCCXXVIII. **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.
PHYSICS LETTERS B, vol.768, pp.57-80, 2017 (SCI-Expanded)
- CCCXXIX. **Measurement of differential cross sections for top quark pair production using the lepton plus jets final state in proton-proton collisions at 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.
PHYSICAL REVIEW D, vol.95, no.9, 2017 (SCI-Expanded)
- CCCXXX. **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.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.4, 2017 (SCI-Expanded)
- CCCXXXI. **Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states**

- 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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- CCCXXXII. **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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- CCCXXXV. **Relative Modification of Prompt psi(2S) and J/psi Yields from pp to PbPb Collisions at root(S)(NN)=5.02 TeV**
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- :CCXXXVI. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at root s=8 TeV**
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- CCXXXVII. **Measurement of the WZ production cross section in pp collisions at root s=7 and 8 TeV and search for anomalous triple gauge couplings at root s=8 TeV**
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- :CXXXVIII. **Charged-particle nuclear modification factors in PbPb and pPb collisions at root s(NN)=5.02 TeV**
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- CCCXLII. **Measurement of the $t(\bar{t})$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV**
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- CCCXLVI. **Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCCXLIX. **Constraints on scalar-pseudoscalar and tensorial nonstandard interactions and tensorial unparticle couplings from neutrino-electron scattering**
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- CCCLVI. **Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLVII. **Measurement of the production cross section of a W boson in association with two b jets in pp collisions at root s=8TeV**
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- CCCLVIII. **Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at root s=8 TeV**
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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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- CCCLX. **Search for high-mass Z gamma resonances in e(+)e(-)gamma and mu(+)mu(-)gamma final states in proton-proton collisions at root s=8 and 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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- CCCLXI. **Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at root s=13 TeV**
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- CCCLXII. **Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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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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- CCCLXV. **The CMS trigger system**
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- CCCLXVI. **Searches for R-parity-violating supersymmetry in pp collisions at root s=8 TeV in final states with 0-4 leptons**
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- CCCLXXII. **Search for dark matter particles in proton-proton collisions at root s = 8 TeV using the razor variables**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCCLXXVII. **Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton plus jets final states produced in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCLXXIX. **Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter**
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The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCCLXXXII. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 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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- CCCLXXXIII. **Measurement of the integrated and differential t(t)-bar production cross sections for high-p(T) top quarks 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.
PHYSICAL REVIEW D, vol.94, no.7, 2016 (SCI-Expanded)
- CCCLXXXIV. **Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV**
The CMS collaboration C., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
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- CCCLXXXV. **Measurements of t(t)-bar charge asymmetry using dilepton final states 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.,

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- :CLXXXVI. **Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CLXXXVII. **Search for R-parity violating decays of a top squark in proton-proton collisions at root s=8TeV**
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- :LXXXVIII. **Measurement of dijet azimuthal decorrelation in pp collisions at root s=8 TeV**
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- :CLXXXIX. **Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width**
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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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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- CCCXCI. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCXCII. **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**
Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Aben R., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
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- CCCXCIII. **Measurement of the differential cross section and charge asymmetry for inclusive pp -> W-+/- + X production at root s=8 TeV**
Khachatryan V. y., 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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- CCCXCIV. **Measurement of the inelastic cross section in proton-lead 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.
PHYSICS LETTERS B, vol.759, pp.641-662, 2016 (SCI-Expanded)
- CCCXCV. **Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy 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.759, pp.9-35, 2016 (SCI-Expanded)
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quartic gauge couplings in pp collisions at and 8 TeV

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

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CCCXCVII. **Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at root s=7 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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:CCXCVIII. **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.

PHYSICS LETTERS B, vol.759, pp.36-57, 2016 (SCI-Expanded)

CCCXCIX. **Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons**

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.759, pp.369-394, 2016 (SCI-Expanded)

CD. **Combined search for anomalous pseudoscalar HW couplings in VH(H -> b(b)over-bar) production and H -> VV decay**

Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., Friedl M., Fruhwirth R., et al.

PHYSICS LETTERS B, vol.759, pp.672-696, 2016 (SCI-Expanded)

CDI. **Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states 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., Ero J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.76, no.8, 2016 (SCI-Expanded)

CDII. **Search for supersymmetry in electroweak production with photons and large missing transverse energy 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.

PHYSICS LETTERS B, vol.759, pp.479-500, 2016 (SCI-Expanded)

CDIII. **Search for new physics in same-sign dilepton events in proton-proton collisions at root s=13 TeV**

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

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CDIV. **Measurement of the t(t)over-bar production cross section in the e mu channel in proton-proton collisions at root s=7 and 8 TeV**

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

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CDV. **Measurement of the double-differential inclusive jet cross section in proton-proton collisions at root s=13TeV**

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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CDVI. **Search for supersymmetry in pp collisions at root s=13 TeV in the single-lepton final state using the sum of masses of large-radius jets**

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

- 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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- CDVIII. **Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair 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., Eroo J., et al.
PHYSICS LETTERS B, vol.758, pp.296-320, 2016 (SCI-Expanded)
- CDIX. **Measurement of inclusive jet production and nuclear modifications 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., Eroo J., et al.
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- CDX. **Measurement of the $W+W^-$ cross section in pp collisions at root $s=8$ TeV and limits on anomalous gauge couplings**
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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- CDXI. **Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CDXII. **Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon plus jets final state 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., Eroo J., et al.
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- CDXIII. **Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at root $s=8$ and 13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CDXIV. **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., Eroo J., et al.
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- CDXV. **Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at root $s=8$ TeV**
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- CDXVI. **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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- CDXVII. **Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in pp collisions at root $s=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E.,

- Dragicevic M., Eroe J., et al.
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- CDXVIII. **Measurement of the CP-violating weak phase $\phi(s)$ and the decay width difference $\Delta\Gamma(s)$ using the $B\text{-}s(0) \rightarrow J/\psi\phi(1020)$ decay channel in pp collisions at $\sqrt{s}=8$ TeV**
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- CDXIX. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV**
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- CDXX. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CDXXI. **Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CDXXII. **Search for pair-produced vectorlike B quarks in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CDXXIII. **Search for lepton flavour violating decays of heavy resonances and quantum black holes to an e mu pair in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CDXXIV. **Measurement of the ratio $B(B\text{-}s(0) \rightarrow J/\psi f(0)(980))/B(B\text{-}s(0) \rightarrow J/\psi\phi(1020))$ in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CDXXV. **Measurement of the top quark mass using charged particles in pp collisions at $\sqrt{s}=8$ TeV**
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- CDXXVI. **Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s}=2.76$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CDXXVII. **Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in final states with boosted W bosons and b jets using razor variables**
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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- CDXXVIII. **Measurement of top quark polarisation in t-channel single top quark production**
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- CDXXXIX. **Measurement of Long-Range Near-Side Two-Particle Angular Correlations 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., Ero J., et al.
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- CDXXX. **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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- CDXXXI. **Search for W ' decaying to tau lepton and neutrino in proton-proton collisions at root s=8 TeV**
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- CDXXXII. **Search for massive WH resonances decaying into the l nu b(b)over-bar final state at root s=8 TeV**
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- CDXXXIII. **Search for new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
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- CDXXXIV. **Search for heavy Majorana neutrinos in e(+/-)e(+/-)+ jets and e(+/-) mu(+/-)+jetsevents in proton-proton collisions at root s=8 TeV**
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- CDXXXV. **Search for anomalous single top quark production in association with a photon in pp collisions at root s=8 TeV**
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- CDXXXVI. **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 -> tau tau**
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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- CDXXXVII. **Measurement of the top quark mass using proton-proton data at root(s)=7**
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- CDXXXVIII. **Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at s =8 TeV**
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- CDXXXIX. **Measurements of t(t)over-bar spin correlations and top quark polarization using dilepton final states 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., Ero J., et al.

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- CDXL. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
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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- CDXLI. **Search for excited leptons in proton-proton collisions at root s=8 TeV**
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- CDXLII. **Transverse momentum spectra of inclusive b jets in pPb collisions atv root s(NN)=5.02 TeV**
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- CDXLIII. **Measurement of the t(t)over-bar production cross section in the all-jets final state 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.
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- CDXLIV. **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**
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- CDXLV. **Search for a Higgs boson decaying into gamma*gamma -> ll gamma with low dilepton mass in pp collisions at root s=8 TeV**
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- CDXLVI. **Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at root s=13 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CDXLVII. **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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- CDXLVIII. **Search for W ' -> tb in proton-proton collisions at root s=8 TeV**
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- CDXLIX. **Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at root s=13 TeV**
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- CDL. **Correlations between jets and charged particles in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- CDLI. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**

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- CDLII. **Search for single production of scalar leptoquarks in proton-proton collisions at root s=8 TeV**
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- CDLIII. **Search for pair production of first and second generation leptoquarks in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al
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- CDLIV. **Search for neutral MSSM Higgs bosons decaying to mu(+) mu(-) in pp collisions at root s=7 and 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al
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- CDLV. **Search for resonant t(t)over-bar production in proton-proton collisions at root s=8 TeV**
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- CDLVI. **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., Ero J., et al
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- CDLVII. **Reconstruction and identification of tau lepton decays to hadrons and nu(tau) at CMS**
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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- CDLVIII. **A search for pair production of new light bosons decaying into muons**
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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- CDLIX. **Measurement of transverse momentum relative to dijet systems in PbPb and pp 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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- CDLX. **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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- CDLXI. **Observation of top quark pairs produced in association with a vector boson in pp collisions at root s=8 TeV**
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- CDLXII. **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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- CDLXIII. **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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- CDLXIV. **Pseudorapidity distribution of charged hadrons in proton-proton 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., Eroev J., et al.
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- CDLXV. **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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- CDLXVI. **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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- CDLXVII. **Measurement of the differential cross section for top quark pair production in pp collisions at root s=8 TeV**
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- CDLXVIII. **Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**
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- CDLXIX. **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**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Friedl M., Fruehwirth R., Ghete V. M., et al.
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- CDLXX. **Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root s=8 TeV**
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proton-proton collisions at root s=8TeV

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DXXVII. Study of Z production in PbPb and pp collisions at root s(NN)=2.76 TeV in the dimuon and dielectron decay channels

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

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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DXXIX. Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at root s=8 TeV

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

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DXXX. Measurements of jet multiplicity and differential production cross sections of Z plus jets events in proton-proton collisions at root s=7 TeV

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

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DXXXI. Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at root s=8 TeV

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

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DXXXII. Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets

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

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DXXXIII. Performance of the CMS missing transverse momentum reconstruction in pp data at root 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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DXXXIV. Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at root 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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DXXXV. Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at root s=7 TeV

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

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

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- DXXXVII. **Measurement of the ratio of the production cross sections times branching fractions of $B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-)$ and $B\text{-}+/- \rightarrow J/\psi K\text{-}+/-$ and $B(B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-)\pi(+/-)\pi(-/+)) / B(B\text{-}c(+/-) \rightarrow J/\psi \pi(+/-))$ in pp collisions at $\sqrt{s}=7$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DXXXVIII. **Measurement of the W boson helicity in events with a single reconstructed top quark in p p collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Friedl M., Fruehwirth M., Ghete V. M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2015 (SCI-Expanded)
- DXXXIX. **Measurement of the $pp \rightarrow ZZ$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DXL. **Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DXLI. **Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- DXLII. **Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- DXLIII. **Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s}=8$ TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.739, pp.229-249, 2014 (SCI-Expanded)
- DXLIV. **Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, vol.90, no.11, 2014 (SCI-Expanded)
- DXLV. **Measurement of the $t(\bar{t})$ production cross section in pp collisions at $\sqrt{s}=8$ TeV in dilepton final states containing one tau lepton**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.739, pp.23-43, 2014 (SCI-Expanded)
- DXLVI. **Measurement of Prompt $\psi(2S)$ to J/ψ . Yield Ratios in Pb-Pb and p-p Collisions at $\sqrt{s_{NN}}=2.76$ TeV**
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- DXLVII. Identification techniques for highly boosted W bosons that decay into hadrons**
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- DXLVIII. Search for supersymmetry with razor variables in pp collisions at root s=7 TeV**
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- DXLIX. Search for excited quarks in the gamma plus jet final state in proton-proton collisions at root s=8 TeV**
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- DL. Search for standard model production of four top quarks in the lepton plus jets channel in pp collisions at root S=8 TeV**
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- DLI. Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at root s=8TeV**
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- DLII. Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at root s=7TeV**
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- DLIII. Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DLIV. Description and performance of track and primary-vertex reconstruction with the CMS tracker**
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- DLV. Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions**
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- DLVI. Measurement of the ratio of inclusive jet cross sections using the anti-k(T) algorithm with radius parameters R=0.5 and 0.7 in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLVII. Study of hadronic event-shape variables in multijet final states in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DLVIII. Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at**

root s=8 TeV by the CMS and TOTEM experiments

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

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

DLIX. Observation of the diphoton decay of the Higgs boson and measurement of its properties

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

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

DLX. Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root 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.

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, 2014 (SCI-Expanded)

DLXI. Measurement of prompt J/psi pair production in pp collisions at root s = 7 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)

DLXII. Search for the associated production of the Higgs boson with a top-quark pair

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

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2014 (SCI-Expanded)

DLXIII. Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at root 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.

PHYSICS LETTERS B, vol.736, pp.371-397, 2014 (SCI-Expanded)

DLXIV. Evidence of b-Jet Quenching in PbPb Collisions at root S-NN=2.76 TeV

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

PHYSICAL REVIEW LETTERS, vol.113, no.13, 2014 (SCI-Expanded)

DLXV. Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 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.

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, 2014 (SCI-Expanded)

DLXVI. Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs

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

PHYSICS LETTERS B, vol.736, pp.64-85, 2014 (SCI-Expanded)

DLXVII. Measurement of the ratio B(t -> Wb)/B(t -> Wq) in pp collisions at root 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.

PHYSICS LETTERS B, vol.736, pp.33-57, 2014 (SCI-Expanded)

DLXVIII. Measurement of jet fragmentation in PbPb and pp collisions at root s(NN)=2.76 TeV

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

PHYSICAL REVIEW C, vol.90, no.2, 2014 (SCI-Expanded)

DLXIX. Search for jet extinction in the inclusive jet-p(T) spectrum from proton-proton collisions at root 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.

PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)

- DLXX. **Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
- DLXXI. **Measurement of the muon charge asymmetry in inclusive $pp \rightarrow W$ plus X production at $\sqrt{s}=7$ TeV and an improved determination of light parton distribution functions**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
- DLXXII. **Measurement of WZ and ZZ production in pp collisions at in final states with b-tagged jets**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXIII. **Measurement of jet multiplicity distributions in $t(\bar{t})$ production in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
- DLXXIV. **Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DLXXV. **Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
- DLXXVI. **Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states 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.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2014 (SCI-Expanded)
- DLXXVII. **Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp 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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- DLXXVIII. **Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.735, pp.204-225, 2014 (SCI-Expanded)
- DLXXIX. **Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.74, no.7, 2014 (SCI-Expanded)
- DLXXX. **Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s}=7$ TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLXXXI. **Study of the production of charged pions, kaons, and protons in pPb collisions at root SNN=5.02 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLXXXII. **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**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.
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- DLXXXIII. **Search for pair production of excited top quarks in the lepton plus jets final state**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLXXXIV. **Search for supersymmetry in pp collisions at root s=8 TeV in events with a single lepton, large jet multiplicity, and multiple b jets**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 PHYSICS LETTERS B, vol.733, pp.328-353, 2014 (SCI-Expanded)
- DLXXXV. **Probing color coherence effects in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.74, no.6, 2014 (SCI-Expanded)
- DLXXXVI. **Observation of a peaking structure in the J/ψ ϕ mass spectrum from $B^{+/-} \rightarrow J/\psi \phi K^{+/-}$ decays**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 PHYSICS LETTERS B, vol.734, pp.261-281, 2014 (SCI-Expanded)
- DLXXXVII. **Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DLXXXVIII. **Alignment of the CMS tracker with LHC and cosmic ray data**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 JOURNAL OF INSTRUMENTATION, vol.9, 2014 (SCI-Expanded)
- DLXXXIX. **Measurement of the triple-differential cross section for photon plus jets production in proton-proton collisions at=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXC. **Observation of the Associated Production of a Single Top Quark - and a W Boson in pp Collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, vol.112, no.23, 2014 (SCI-Expanded)
- DXCI. **Measurement of the W gamma and Z gamma inclusive cross sections in pp collisions at root s=7 TeV**

and limits on anomalous triple gauge boson couplings

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

PHYSICAL REVIEW D, vol.89, no.9, 2014 (SCI-Expanded)

DXCII. Evidence for the 125 GeV Higgs boson decaying to a pair of tau leptons

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

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2014 (SCI-Expanded)

DXCIII. Measurement of the properties of a Higgs boson in the four-lepton final state

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

PHYSICAL REVIEW D, vol.89, no.9, 2014 (SCI-Expanded)

DXCIV. Measurement of Inclusive W and Z Boson Production Cross Sections in pp Collisions at root s=8 TeV

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

PHYSICAL REVIEW LETTERS, vol.112, no.19, 2014 (SCI-Expanded)

DXCV. Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow Zq$ in pp Collisions at root s=8 TeV

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

PHYSICAL REVIEW LETTERS, vol.112, no.17, 2014 (SCI-Expanded)

DXCVI. Measurement of four-jet production in proton-proton collisions at root s=7 TeV

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

PHYSICAL REVIEW D, vol.89, no.9, 2014 (SCI-Expanded)

DXCVII. Measurements of $t(\bar{t})$ Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at root s=7 TeV

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

PHYSICAL REVIEW LETTERS, vol.112, no.18, 2014 (SCI-Expanded)

DXCVIII. Search for $W' \rightarrow tb$ decays in the lepton plus jets final state in pp collisions at root s=8 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2014 (SCI-Expanded)

DXCIX. Measurement of the top-quark mass in all-jets $t(\bar{t})$ events in pp collisions at root s=7 TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.4, 2014 (SCI-Expanded)

DC. Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays

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

PHYSICAL REVIEW LETTERS, vol.112, no.16, 2014 (SCI-Expanded)

DCI. Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at root s(NN)=2.76 TeV

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

PHYSICAL REVIEW C, vol.89, no.4, 2014 (SCI-Expanded)

DCII. Search for Top-Quark Partners with Charge 5/3 in the Same-Sign Dilepton Final State

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

PHYSICAL REVIEW LETTERS, vol.112, no.17, 2014 (SCI-Expanded)

- DCIII. **Search for baryon number violation in top-quark decays**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.731, pp.173-196, 2014 (SCI-Expanded)
- DCIV. **Measurements of the $t(\bar{t})$ Overbar charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
- DCV. **Event activity dependence of (nS) production in $\sqrt{s}=5.02$ TeV pPb and $\sqrt{s}=2.76$ TeV pp collisions**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
- DCVI. **Modification of jet shapes in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.730, pp.243-263, 2014 (SCI-Expanded)
- DCVII. **Searches for light- and heavy-flavour three-jet resonances in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.730, pp.193-214, 2014 (SCI-Expanded)
- DCVIII. **Study of double parton scattering using $W+2$ -jet events in proton-proton collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2014 (SCI-Expanded)
- DCIX. **Inclusive search for a vector-like T quark with charge $2/3$ in pp collisions at $\sqrt{s}=8$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.729, pp.149-171, 2014 (SCI-Expanded)
- DCX. **Measurement of associated W plus charm production in pp collisions at $\sqrt{s}=7$ TeV**
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- DCXI. **Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s}=2.76$ TeV**
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- DCXII. **Measurement of the $t(\bar{t})$ over-bar production cross section in the dilepton channel in pp collisions at $\sqrt{s}=8$ TeV**
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- DCXIII. **Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**
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- DCXIV. **Determination of the top-quark pole mass and strong coupling constant from the $t(\bar{t})$ over-bar production cross section in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.

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- DCXV. **Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**
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- DCXVI. **Search for new physics in events with same-sign dileptons and jets in pp collisions at root s=8 TeV**
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- DCXVII. **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at root s=7 TeV**
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- DCXVIII. **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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- DCXIX. **Search for top-squark pair production in the single-lepton final state in pp collisions at root s=8 TeV**
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- DCXX. **Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV**
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- DCXXII. **Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at root s=7 TeV**
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- DCXXIII. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 TeV**
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- DCXXIV. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
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- DCXXV. **Angular analysis and branching fraction measurement of the decay B-0 -> K*(0)mu(+)mu(-)**
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- DCXXVI. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
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- DCXXVII. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
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- DCXXVIII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
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- DCXXIX. **Search for a Higgs boson decaying into a Z and a photon in pp collisions at root s=7 and 8 TeV**
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- DCXXX. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
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- DCXXXI. **Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at root s=7 TeV**
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- DCXXXII. **Measurement of the production cross section for Z gamma -> nu(nu)over-bar gamma in pp collisions at root s=7 TeV and limits on ZZ gamma and Z gamma gamma triple gauge boson couplings**
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- DCXXXIII. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV**
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- DCXXXIV. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
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- DCXXXV. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**
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- DCXXXVI. **Measurement of the W-boson helicity in top-quark decays from $t(\bar{t})$ production in lepton plus jets events in pp collisions at $\sqrt{s}=7$ TeV**
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- DCXXXVII. **Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\alpha(T)$ and b-quark multiplicity in pp collisions at $\sqrt{s}=8$ TeV**
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- DCXXXVIII. **Interpretation of searches for supersymmetry with simplified models**
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- DCXXXIX. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- DCXL. **Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s}=7$ TeV**
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- DCXLI. **Measurement of the $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ Branching Fraction and Search for $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ with the CMS Experiment**
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- DCXLII. **Searches for Higgs bosons in pp collisions at $\sqrt{s}=7$ and 8 TeV in the context of four-generation and fermiophobic models**
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- DCXLIII. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at $\sqrt{s}=7$ TeV**
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- DCXLIV. **Searches for long-lived charged particles in pp collisions at $\sqrt{s}=7$ and 8 TeV**
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- DCXLV. **Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions**
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- DCXLVI. **Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV**
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- DCXLVII. **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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- DCXLVIII. **Measurement of the Lambda(0)(b) lifetime in pp collisions at root s=7 TeV**
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- DCXLIX. **Measurement of masses in the t(t)over-tilde system by kinematic endpoints in pp collisions at root s=7 TeV**
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- DCL. **Study of exclusive two-photon production of W+W- in pp collisions at root s=7 TeV and constraints on anomalous quartic gauge couplings**
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- DCLI. **Limits on Spin-Independent Couplings of WIMP Dark Matter with a p-Type Point-Contact Germanium Detector**
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- DCLII. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**
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- DCLIII. **Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV**
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- DCLIV. **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**
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- DCLV. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- DCLVI. **Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC**
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- DCLVII. **Measurement of the inelastic proton-proton cross section at root s=7 TeV**
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- DCLVIII. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC**
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- DCLIX. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
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- DCLX. **Search for fractionally charged particles in pp collisions at root s=7 TeV**
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- DCLXI. **Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV**
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- DCLXII. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root s=7 TeV**
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- DCLXIII. **Event shapes and azimuthal correlations in Z plus jets events in pp collisions at root s=7 TeV**
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- DCLXIV. **Measurement of the t(t)-bar production cross section in the all-jet final state in pp collisions at root s=7 TeV**
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- DCLXV. **Studies of jet mass in dijet and W/Z plus jet events**
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- DCLXVI. **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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- DCLXVII. **Measurement of the W+W- and ZZ production cross sections in pp collisions at root s=8 TeV**
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- DCLXVIII. **Search for Z' resonances decaying to t(t)-bar in dilepton plus jets final states in pp collisions at root s=7 TeV**
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- DCLXIX. **Measurement of the t(t)-bar production cross section in the tau plus jets channel in pp collisions at root s=7 TeV**
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- DCLXX. **Identification of b-quark jets with the CMS experiment**
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- DCLXXI. **Search for pair-produced dijet resonances in four-jet final states in pp collisions at root s=7 TeV**
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- DCLXXII. **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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- DCLXXIII. **Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCLXXIV. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
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- DCLXXV. **Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC**
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- DCLXXVI. **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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- DCLXXVII. **Search for heavy narrow dilepton resonances in pp collisions at root s=7 TeV and root s=8 TeV**
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- DCLXXVIII. **Measurement of differential top-quark-pair production cross sections in pp collisions at root s=7 TeV**
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- DCLXXIX. **Search for excited leptons in pp collisions at root s=7 TeV**
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- DCLXXX. **Measurement of the t(t)over-bar production cross section in pp collisions at root s=7 TeV with lepton plus jets final states**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.

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- DCLXXXI. **Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- DCLXXXII. **Search for contact interactions using the inclusive jet $p(T)$ spectrum in pp collisions at $\sqrt{s}=7$ TeV**
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- CLXXXIII. **Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV**
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- CLXXXIV. **Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCLXXXV. **Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.110, no.8, 2013 (SCI-Expanded)
- CLXXXVI. **Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- CLXXXVII. **Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- LXXXVIII. **Search for contact interactions in $\mu(+)\mu(-)$ events in pp collisions at $\sqrt{s}=7$ TeV**
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- CLXXXIX. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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- DCXCI. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at $\sqrt{s}=7$ TeV**
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- DCXCII. **Search for supersymmetry in events with photons and low missing transverse energy in pp**

collisions at root s=7 TeV

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

PHYSICS LETTERS B, vol.719, pp.42-61, 2013 (SCI-Expanded)

DCXCIII. Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN=2.76 TeV

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

PHYSICAL REVIEW LETTERS, vol.110, no.4, 2013 (SCI-Expanded)

DCXCIV. Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV

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

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DCXCV. Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=2.76 TeV

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

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DCXCVI. Observation of long-range, near-side angular correlations in pPb collisions at the LHC

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

PHYSICS LETTERS B, vol.718, no.3, pp.795-814, 2013 (SCI-Expanded)

DCXCVII. Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV

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

PHYSICS LETTERS B, vol.718, no.3, pp.815-840, 2013 (SCI-Expanded)

DCXCVIII. Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from 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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DCXCIX. Measurement of the ZZ production cross section and search for anomalous couplings in 2l2l' final states in pp collisions at root s=7 TeV

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

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DCC. Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or >= 3 b-quark jets in 7 TeV pp collisions using the variable alpha(T)

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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DCCI. Observation of a diffractive contribution to dijet production in proton-proton collisions at root s = 7 TeV

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PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)

DCCII. Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root s(NN)=2.76 TeV

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- PHYSICAL REVIEW C, vol.87, no.1, 2013 (SCI-Expanded)
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCCIV. **Search for heavy quarks decaying into a top quark and a W or Z boson using lepton plus jets events in pp collisions at $\sqrt{s}=7$ TeV**
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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCCVII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCVIII. **Study of the Dijet Mass Spectrum in $pp \rightarrow W + \text{jets}$ Events at $\sqrt{s}=7$ TeV**
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PHYSICAL REVIEW LETTERS, vol.109, no.25, 2012 (SCI-Expanded)
- DCCIX. **A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider**
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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- DCCX. **Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s}=7$ TeV with a lepton in the final state**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- DCCXI. **Combined search for the quarks of a sequential fourth generation**
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- DCCXIII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.

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- DCCXIV. **Search for three-jet resonances in pp collisions at root s=7 TeV**
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- DCCXV. **Measurement of the relative prompt production rate of chi(c2) and chi(c1) in pp collisions at root s=7 TeV**
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- DCCXVI. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**
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- DCCXVII. **Measurement of the single-top-quark t-channel cross section in pp collisions at root s=7 TeV**
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- DCCXVIII. **Observation of Z decays to four leptons with the CMS detector at the LHC**
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- DCCXIX. **Search for Heavy Neutrinos and W-R Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCCXX. **Search for resonant t(t)over-bar production in lepton plus jets events in pp collisions at root s=7 TeV**
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- DCCXXI. **Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at root s=7 TeV**
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- DCCXXII. **Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCCXXIII. **Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCXXIV. **Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.

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- DCCXXV. **Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- DCCXXVI. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive e(+)e(-) production in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCCXXVII. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCCXXVIII. **Observation of Sequential upilon Suppression in PbPb Collisions**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- DCCXXIX. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.15, 2012 (SCI-Expanded)
- DCCXXX. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
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- DCCXXXI. **Search for supersymmetry in hadronic final states using M-T2 in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCCXXXII. **Performance of CMS muon reconstruction in pp collision events at root s=7TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCCXXXIII. **Tests of CMS hadron forward calorimeter upgrade readout box prototype**
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- DCCXXXIV. **Search for a W ' or Techni-rho Decaying into WZ in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Ero J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.14, 2012 (SCI-Expanded)
- DCCXXXV. **Measurement of jet fragmentation into charged particles in pp and PbPb collisions at root s(NN)=2.76 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
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- DCCXXXVI. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-**

Proton Collisions at $\sqrt{s}=7$ TeV

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

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- CCXXXVII. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s}=0.9, 2.76,$ and 7 TeV**

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

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)

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

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

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- CCXXXIX. **Search for charge-asymmetric production of W^\pm bosons in $t(\bar{t})$ plus jet events from pp collisions at $\sqrt{s}=7$ TeV**

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

PHYSICS LETTERS B, vol.717, pp.351-370, 2012 (SCI-Expanded)

- DCCXL. **Search for heavy Majorana neutrinos in $\mu^{+/-}\mu^{+/-} +$ jets and $e^{+/-}e^{+/-} +$ jets events in pp collisions at $\sqrt{s}=7$ TeV**

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

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

- DCCXLI. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in proton-proton collisions $\sqrt{s}=7$ TeV**

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

PHYSICS LETTERS B, vol.717, pp.129-150, 2012 (SCI-Expanded)

- DCCXLII. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**

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

PHYSICS LETTERS B, no.1, pp.30-61, 2012 (SCI-Expanded)

- DCCXLIII. **Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}=7$ TeV**

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

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.9, 2012 (SCI-Expanded)

- DCCXLIV. **Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s}=7$ TeV**

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

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- DCCXLV. **Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s}=7$ TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2012 (SCI-Expanded)

- DCCXLVI. **Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at $\sqrt{s}=7$ TeV**

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

- PHYSICAL REVIEW LETTERS, vol.109, no.11, 2012 (SCI-Expanded)
- DCXLVII. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DCXLVIII. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DCCXLIX. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DCCLV. **Measurement of the Lambda(b) cross section and the (Lambda)over-bar(b) to Lambda(b) ratio with J/psi Lambda decays in pp collisions at root s=7 TeV CMS Collaboration**
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- DCCLIX. **Measurement of the underlying event activity in pp collisions at root s=0.9 and 7 TeV with the novel jet-area/median approach**
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- DCCLXXV. **Search for quark compositeness in dijet angular distributions from pp collisions at root s=7 TeV**
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- DCCLXXVII. **Search for heavy bottom-like quarks in 4.9 fb(-1) of pp collisions at root s=7 TeV**
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CCLXXXII. Search for $B\text{-}S(0) \rightarrow \mu^{+}\mu^{-}$ and $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ decays

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:CLXXXIII. Inclusive b-jet production in pp collisions at $\sqrt{s}=7$ TeV

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

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:CLXXXIV. Search for microscopic black holes in pp collisions at $\sqrt{s}=7$ TeV

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CCLXXXV. Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV

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:CLXXXVI. Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\bar{q})l^{+}l^{-}$ in pp collisions at $\sqrt{s}=7$ TeV

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CLXXXVII. Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7$ TeV

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:LXXXVIII. Search for the standard model Higgs boson decaying to $W^{+}W^{-}$ in the fully leptonic final state in pp collisions at $\sqrt{s}=7$ TeV

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

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:CLXXXIX. Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider

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DCCXC. Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ channel in pp collisions at $\sqrt{s}=7$ TeV

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

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DCCXCI. Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at $\sqrt{s}=7$ TeV

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DCCXCII. Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow l^{+}l^{-}\tau^{+}\tau^{-}$ decay channel in

pp collisions at root s=7 TeV

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

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DCCXCIII. Study of high-p(T) charged particle suppression in PbPb compared to pp collisions at root s(NN)=2.76 TeV

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

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

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DCCXCV. Combined results of searches for the standard model Higgs boson in pp collisions at root s=7 TeV

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DCCXCVI. J/psi and psi(2S) production in pp collisions at root s=7 TeV

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

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DCCXCVII. 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)

DCCXCVIII. Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at root s=7 TeV

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

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DCCXCIX. Measurement of the production cross section for pairs of isolated photons in pp collisions at root s=7 TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2012 (SCI-Expanded)

DCCC. Jet production rates in association with W and Z bosons in pp collisions at root s=7 TeV

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DCCCII. Exclusive gamma gamma -> mu(+)mu(-) production in proton-proton collisions at root s=7TeV

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

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DCCCIII. Performance of tau-lepton reconstruction and identification in CMS

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

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DCCCIII. Inclusive search for squarks and gluinos in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C.,

- Friedl M., et al.
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- DCCCCIV. **Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW D, vol.84, no.11, 2011 (SCI-Expanded)
- DCCCCV. **Search for $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ and $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ Decays in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCCCVI. **Determination of jet energy calibration and transverse momentum resolution in CMS**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, vol.6, 2011 (SCI-Expanded)
- DCCCCVII. **Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCCCVIII. **Measurement of the $t\bar{t}$ production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCCCIX. **Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}=0.9$ and 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCCCX. **Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCCCCXI. **Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s}=7$ TeV**
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- DCCCCXIII. **Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s}=7$ TeV with the CMS experiment**
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- DCCCCXIV. **Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS**
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- DCCCXV. **A search for excited leptons in pp collisions at root s=7 TeV**
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- DCCCXVI. **Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DCCCXVII. **Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DCCCXVIII. **Measurement of the underlying event activity at the LHC with root s=7 TeV and comparison with root s=0.9 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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Publication: 946

Citation (WoS): 58892

Citation (Scopus): 49586

H-Index (WoS): 106

H-Index (Scopus): 97

Non Academic Experience

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Texas Tech University, Misafir Profesör

ODTÜ, Y. Doç. Dr.

ODTÜ, Öğretim Görevlisi (Dr.)

ODTÜ, Araştırma Görevlisi