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Personal Information

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International Researcher IDs

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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 (Yl) (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

Advising 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 $\sigma(\text{chic2})/\sigma(\text{chic1})$ 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 $\sigma(\chi c_2)/\sigma(\chi c_1)$ 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->l_vl_v 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-l_vl_v 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. **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)
- II. **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)
- III. **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., Eroe J., Del Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.12, 2020 (SCI-Expanded)
- IV. **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)
- 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., Eroe 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 $t(t)\bar{t}$ 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., Eroe J., Del Valle A. E., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.80, no.7, 2020 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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)
- XIII. **Study of J/ψ meson production inside jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$** 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)
- XIV. **Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \bar{\phi}$ decay in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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)
- XIX. **Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**
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)
- XX. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s} = 13 \text{ TeV}$**
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 $\sqrt{s} = 13 \text{ TeV}$**
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. **Measurement of electroweak production of a W boson in association with two jets in proton-proton**

- collisions at $\sqrt{s}=13\text{TeV}$**
 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)
- 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. Multiparticle correlation studies in pPb collisions root 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)
- XXV. Observation of nuclear modifications in $W+/-$ boson production in pPb collisions at root 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)
- XXVI. 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 root s d=13TeV**
 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 the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)
- XXVIII. Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root S-NN=5.44 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, vol.799, 2019 (SCI-Expanded)
- XXIX. Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW LETTERS, vol.123, no.23, 2019 (SCI-Expanded)
- XXX. Probing the chiral magnetic wave in pPb and PbPb collisions at root S-NN=5.02 TeV using charge-dependent azimuthal anisotropies**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW C, vol.100, no.6, 2019 (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. 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)
- XXXIII. 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)
- XXXIV. 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)
- XXXV. 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)
- XXXVI. 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)
- XXXVII. 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)
- XXXVIII. 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)
- 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., Eroe J., Escalante Del Valle A., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.10, 2019 (SCI-Expanded)
- XL. 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)
- XLI. 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)
- 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. Measurement of B-s(0) meson production in pp and PbPb collisions at root S-NN=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICS LETTERS B, vol.796, pp.168-190, 2019 (SCI-Expanded)
- XLIV. 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)
- XLV. 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)
- XLVI. 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)
- XLVII. 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)
- XLVIII. 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)
- XLIX. 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)
- L. 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., Eroe J., et al.
PHYSICAL REVIEW C, vol.100, no.2, 2019 (SCI-Expanded)
- LI. 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)
- LII. Search for charged Higgs bosons in the H-+/- -> 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. 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)
- LIV. Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del

- Valle A. E., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.6, 2019 (SCI-Expanded)
- LV. Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.
 PHYSICAL REVIEW D, vol.99, no.11, 2019 (SCI-Expanded)
- LVI. 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)
- LVII. 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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- CXXII. **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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- CXXVII. **Measurement of jet substructure observables in t(t)over-bar events from proton-proton collisions at root s=13 TeV**
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- CXXVIII. **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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- CXXIX. **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**
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- CXXXI. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at root s=13 TeV**
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- CXXXII. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**
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- CXXXIII. **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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- CXXXIV. **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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- CXXXV. **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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- CXXXVI. **Observation of the Z → psi l(+)-l(-) Decay in pp Collisions at root s=13 TeV**
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- CXXXVII. **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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- CXXXVIII. **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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- CXXXIX. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**
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- CXL. **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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- CXLII. **Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions**
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- CXLIII. **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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- CXLVI. **Search for Z gamma resonances using leptonic and hadronic final states in proton-proton collisions at root s=13 TeV**
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- CXLVII. **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**
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- CXLVIII. **Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV**
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- CLI. **Neutron background measurements with a hybrid neutron detector at the Kuo-Sheng Reactor**

Neutrino Laboratory

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- CLII. **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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- CLIII. **Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at root s=13 TeV**
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- CLIV. **Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at root s=13 TeV**
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- CLV. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at root s(NN)=5.02 TeV**
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- CLVI. **Search for beyond the standard model Higgs bosons decaying into a b(b)over-bar pair in pp collisions at root s=13 TeV**
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- CLVII. **Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV**
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- 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. **Search for R-parity violating supersymmetry in pp collisions at root s=13 TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
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- CLX. **Observation of the chi(b1)(3P) and chi(b2)(3P) and Measurement of their Masses**
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- CLXI. **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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- CLXII. Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter mediators and other new particles**
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- CLXIII. 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**
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- CLXIV. Search for a heavy resonance decaying into a Z boson and a vector boson in the v(v)over-bar q(q)over-bar final state**
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- CLXV. Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV**
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- CLXVI. Electroweak production of two jets in association with a Z boson in proton-proton collisions root s =13 TeV**
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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**
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- CLXVIII. Measurement of the inelastic proton-proton cross section at root s=13 TeV**
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- CLXIX. Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer**
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- CLXX. 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., Eroe J., et al.
PHYSICS LETTERS B, vol.782, pp.440-467, 2018 (SCI-Expanded)
- CLXXI. Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at root s=13 TeV**
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- CLXXII. 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., Eroe J., et al.

- PHYSICS LETTERS B, vol.782, pp.474-496, 2018 (SCI-Expanded)
- CLXXIII. Search for lepton flavour violating decays of the Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV**
- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CLXXIV. Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at root s=13 TeV**
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- CLXXV. 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**
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- CLXXVI. Search for t(t)/over-barH production in the all-jet final state in proton-proton collisions root s=13 TeV**
- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CLXXVII. Search for single production of vector-like quarks decaying to a b quark and a Higgs boson**
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- CLXXVIII. Observation of (tt)/over-barH Production**
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- CLXXIX. 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., Eroe J., et al.
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- CLXXX. Measurement of angular parameters from the decay B-0 -> K*(0)mu(+)mu(-) in proton-proton collisions at root s=8 TeV**
- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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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., Eroe J., et al.
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- CLXXXII. Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV**
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- CLXXXIII. Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at root s=13 TeV**
- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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

- CLXXXIV. **Search for high-mass resonances in final states with a lepton and missing transverse momentum at root s=13 TeV**

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

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- CLXXXV. **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., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, vol.781, pp.244-269, 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., Dragicevic M., Eroe J., et al.

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

- CLXXXVII. **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., Eroe J., et al.

PHYSICS LETTERS B, vol.781, pp.574-600, 2018 (SCI-Expanded)

- CLXXXVIII. **Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV**

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

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- CLXXXIX. **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., Eroe J., et al.

PHYSICS LETTERS B, vol.781, pp.390-411, 2018 (SCI-Expanded)

- CXC. **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., Eroe J., et al.

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

- CXCI. **Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at ,root s=13 TeV**

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

PHYSICS LETTERS B, vol.780, pp.118-143, 2018 (SCI-Expanded)

- CXCII. **Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV**
- Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW LETTERS, vol.120, no.20, 2018 (SCI-Expanded)

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

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

PHYSICAL REVIEW LETTERS, vol.120, no.22, 2018 (SCI-Expanded)

- CXCIV. **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., Dragicevic M., Erö J., et al.
 PHYSICS LETTERS B, vol.780, pp.501-532, 2018 (SCI-Expanded)
- CXCV. **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**
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- CCXXIV. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root $s(NN)=5.02$ TeV**
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- CCXXV. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root $s=13$ TeV**
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- CCXXVI. **Search for ZZ resonances in the 2l2v final state in proton-proton collisions at 13 TeV**
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- CCXXX. **Measurement of the inclusive t(t)over-bar cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton**
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- CCXXXIII. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- CCXXXIV. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**
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- CCXXXV. **Constraintson the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at root s=8TeV**
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- CCXXXVI. **Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p plus Pb Collisions at the LHC**

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- CCXXXVII. Search for Higgsino pair production in pp collisions at root s=13 TeV in final states with large missing transverse momentum and two Higgs bosons decaying via H -> b(b)over bar**
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- :CXXXVIII. Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**
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- CCXXXIX. Search for top squarks and dark matter particles in opposite-charge dilepton final states at root s=13 TeV**
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- CCXL. Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at root s=13TeV**
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- CCXLI. Pseudorapidity distributions of charged hadrons in proton-lead collisions at root s(NN)=5:02 and 8.16 TeV**
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- CCXLII. Search for resonant and nonresonant Higgs boson pair production in the b(b)over-barl nu l nu final state in proton-proton collisions at root s=13 TeV**
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- CCXLIII. Measurements of t(t)over-bar cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at root s=13 TeV**
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- CCXLIV. Azimuthal anisotropy of charged particles with transverse momentum up to 100GeV/c in PbPb collisions at root S-NN=5.02 TeV**
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- CCXLV. Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
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- CCXLVI. Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at root s=13 TeV**
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- JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2018 (SCI-Expanded)
- CCXLVII. Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks**
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- CCXLVIII. Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS**
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- CCXLIX. Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at root s=13TeV**
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- CCL. Observation of Top Quark Production in Proton-Nucleus Collisions**
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- CCLI. 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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- CCLII. Measurement of charged pion, kaon, and proton production in proton-proton collisions at root s=13 TeV**
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- CCLIII. 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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- 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 a heavy composite Majorana neutrino in the final state with two leptons and two quarks at root s=13 TeV**
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 PHYSICS LETTERS B, vol.775, pp.315-337, 2017 (SCI-Expanded)
- CCLVI. Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**
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- CCLVII. Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions**

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- CCLVIII. 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**
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.774, pp.533-558, 2017 (SCI-Expanded)
- CCLIX. 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**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
PHYSICS LETTERS B, vol.774, pp.682-705, 2017 (SCI-Expanded)
- CCLX. Search for electroweak production of charginos and neutralinos in WH events 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. Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
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- CCLXIII. Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at root s=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCLXIV. Measurements of properties of the Higgs boson decaying into the four-lepton final state 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., Eroe J., Flechl M., et al.
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- CCLXV. 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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- CCLXVI. Measurement of the semileptonic t(t)over-bar plus gamma production cross section in pp collisions at root s=8 TeV**
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- CCLXVII. Measurement of the B+-/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root s(NN)=5.02 TeV**
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- PHYSICAL REVIEW LETTERS, vol.119, no.15, 2017 (SCI-Expanded)
- CCLXVIII. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13TeV**
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- CCLXIX. **Search for top squark pair production in pp collisions at root s=13 TeV using single lepton events**
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- CCLXXIV. **Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at root s=13 TeV**
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- CCLXXV. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root s=13 TeV**
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- CCLXXVI. **Search for direct production of super symmetric partners of the top quark in the all-jets final state in proton-proton collisions at root s=13 TeV**
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- CCLXXVII. **Search for Supersymmetry in pp Collisions at root s=13 TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
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- CCLXXIX. **Search for associated production of dark matter with a Higgs boson decaying to b(b)over-bar or gamma gamma at root s=13 TeV**
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- CCLXXX. **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**
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- CCLXXXI. **Search for new physics in the monophoton final state in proton-proton collisions at root s=13 TeV**
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- CCLXXXV. **Search for standard model production of four top quarks in proton-proton collisions at root s=13TeV**
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- CCLXXXVI. **Search for a heavy resonance decaying to a top quark and a vector-like top quark at root s=13 TeV**
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- CLXXXVII. **Cross section measurement of t-channel single top quark production in pp collisions at root s=13 TeV**
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- CCLXXXIX. **Measurement of the t(t)over-bar production cross section using events with one lepton and at least one jet in pp collisions at root s=13 TeV**

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- CCXCI.** **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**
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- CCXCII.** **Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at root sNN=5.02TeV**
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- CCXCIII.** **Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at root s=13 TeV**
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- CCXCIV.** **Search for high-mass Z gamma resonances in proton-proton collisions at root s=8 and 13 TeV using jet substructure techniques**
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- CCXCVI.** **Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state**
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- CCXCVII.** **Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV**
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- CCXCVIII.** **Measurement of the top quark mass in the dileptonic t(t)over-bar decay channel using the mass observables M-bl, M-T2, and M-blv in pp collisions at root=8 TeV**
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- CCXCIX.** **Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at root s=13 TeV**
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- CCC. Measurement of the differential inclusive $B+$ hadron cross sections in pp collisions at root $s=13\text{TeV}$**
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- CCCI. Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13TeV**
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- CCCII. Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root $s(\text{NN})=5.02\text{ TeV}$**
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- CCCIII. Search for top quark partners with charge $5/3$ in proton-proton collisions at root $s=13\text{ TeV}$**
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- CCCIV. Search for $t(t)\overline{\text{over-bar}}$ resonances in highly boosted lepton plus jets and fully hadronic final states in proton-proton collisions at root $s=13\text{ TeV}$**
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- CCCV. Search for new physics with dijet angular distributions in proton-proton collisions at root $S = 13\text{ TeV}$**
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- CCCVI. Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at root $s=8\text{ TeV}$**
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- CCCVII. Measurement of inclusive jet cross sections in pp and PbPb collisions at root $s(\text{NN})=2.76\text{ TeV}$**
 Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.
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- CCCVIII. Measurement of the jet mass in highly boosted $t(t)\overline{\text{over-bar}}$ events from pp collisions at root $s=8\text{TeV}$**
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- CCCX. 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 $s=8\text{ TeV}$**
 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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- CCCX. 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 $s=13\text{ TeV}$**
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- CCCXI. Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=5.02 TeV**
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- CCCXII. Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at root S=13 TeV**
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- CCCXIII. Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at root s=13 TeV**
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- CCCXIV. Suppression of gamma(1S), gamma(2S), and gamma(3S) quarkonium states in PbPb collisions at root S-NN=2.76TeV**
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- CCCXV. Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**
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- CCCXVI. Search for heavy gauge W' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**
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- CCCXVII. Measurement of double-differential cross sections for top quark pair production in pp collisions at root s=8 TeV and impact on parton distribution functions**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., Flechl M., et al.
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- CCCXVIII. 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.
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- CCCXIX. Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV**
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- CCCXX. 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.

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- CCCXXI. Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**
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- CCCXXII. 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.
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- CCCXXIII. Search for single productio no 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.
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- CCCXXIV. Observation of gamma(1S) pair production in proton-proton collisions at root s=8 TeV**
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- CCCXXV. 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)
- 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. 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)
- CCCXXVIII. 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)
- 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. Measurement of the WZ production cross section in pp collisions at root s=7 and 8 TeV and search for anomalous triple gauge couplings at root s=8 TeV**
- Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
- EUROPEAN PHYSICAL JOURNAL C, vol.77, no.4, 2017 (SCI-Expanded)
- CCCXXXI. Charged-particle nuclear modification factors in PbPb and 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.,

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- CCCXXXII. 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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- CCCXXXIII. Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at root s=8 TeV using the alpha(T) variable**
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- CCCXXXIV. Mechanical stability of the CMS strip tracker measured with a laser alignment system**
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- CCCXXXV. 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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- CCCXXXVI. Suppression and azimuthal anisotropy of prompt and nonprompt J/psi production in PbPb collisions at root S-NN=2.76 TeV**
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- CCXXXVII. 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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- CCCXXXVIII. 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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- CCCXXXIX. Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**
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- CCCXLI. Search for massive resonances decaying in to WW,WZ or ZZ bosons in proton-proton collisions at root s=13 TeV**
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- CCCXLII. **Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at root s=8 TeV and cross section ratios to 2.76 and 7 TeV**
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- CCCXLIII. **Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at root s=8 TeV**
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- CCCXLIV. **Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying tau leptons and two jets in proton-proton collisions at root s=13 TeV**
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- CCCXLV. **Measurement of the t(t)over-bar production cross section using events in the e mu final state in pp collisions at root s=13 TeV**
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- CCCXLVI. **Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- CCCXLIX. **Constraints on scalar-pseudoscalar and tensorial nonstandard interactions and tensorial unparticle couplings from neutrino-electron scattering**
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- CCCL. **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**
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- CCCLI. **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. Inclusive search for supersymmetry using razor variables in pp collisions at root s=13 TeV**
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- CCCLXIV. Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s}=8$ TeV**
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- CCCLXV. Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CCCLXVII. Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV**
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- CCCLXX. Searches for R-parity-violating supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in final states with 0-4 leptons**
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- CCCLXXI. Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets**
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- CCCLXXIV. Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at TeV**
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- CCLXXXIII. **Upsilon (nS) polarizations versus particle multiplicity in pp collisions at root s=7 TeV**
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- CCLXXXIV. **Measurements of $t(t)\overline{t}$ charge asymmetry using dilepton final states in pp collisions at root s=8 TeV**
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- CCLXXXV. **Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV**
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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**
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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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- CLXXXVIII. **Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV**
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- CCCXC. **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**
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- CCCXCI. **Measurement of the Z gamma -> nu(nu)over-bar gamma production cross section in pp collisions at root s=8 TeV and limits on anomalous ZZ gamma and Z gamma gamma trilinear gauge boson couplings**
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- CCCXCII. **Study of Z boson production in pPb collisions at root S-NN=5.02 TeV**
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- CCCXCIII. **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**
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- CCCXCIV. **Measurement of the inelastic cross section in proton-lead collisions at root s(NN)=5.02 TeV**
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- CCCXCV. **Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at root s=8TeV**
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- CCCXCVI. **Search for supersymmetry in pp collisions at root s=13 TeV in the single-lepton final state using the sum of masses of large-radius jets**

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- CCCXCVII. Combined search for anomalous pseudoscalar HW couplings in VH($H \rightarrow b\bar{b}$) production and $H \rightarrow VV$ decay**
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- CCCXCVIII. Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=8$ TeV**
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- CCCXCIX. Evidence for exclusive gamma gamma $\rightarrow W (+) W (-)$ production and constraints on anomalous quartic gauge couplings in pp collisions at 8 TeV**
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- CD. 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 $\sqrt{s}=7$ and 8 TeV**
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- CDI. Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons**
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- CDII. Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s}=7$ TeV**
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- CDIII. Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CDIV. Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at $\sqrt{s}=8$ TeV**
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- CDVII. Search for supersymmetry in the multijet and missing transverse momentum final state in pp**

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CDVIII. **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**
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CDIX. **Search for Narrow Resonances in Dijet Final States at root s=8 TeV with the Novel CMS Technique of Data Scouting**
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CDX. **Measurement of inclusive jet production and nuclear modifications in pPb collisions at root s(NN)=5.02 TeV**
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CDXIV. **Measurement of t(t)over-bar production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at root s=8TeV**
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CDXV. **Measurement of spin correlations in tf production using the matrix element method in the muon plus jets final state in pp collisions at root S=8 TeV**
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CDXVI. **Measurement of the W+W- cross section in pp collisions at root s=8 TeV and limits on anomalous gauge couplings**
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CDXVII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=8 TeV**
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CDXVIII. Search for pair-produced vectorlike B quarks in proton-proton collisions at root 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 root s=8 TeV**
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- CDXX. Measurement of the CP-violating weak phase phi(s) and the decay width difference Delta Gamma(s) using the B-s(0) -> J/psi phi (1020) decay channel in pp collisions at root s=8 TeV**
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- CDXXII. Inclusive and differential measurements of the t(t)over-bar charge asymmetry in pp collisions at root s=8 TeV**
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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 root s=8 TeV**
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- CDXXIV. Measurement of the top quark mass using charged particles in pp collisions at root s=8 TeV**
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- CDXXV. Measurement of the inclusive jet cross section in pp collisions at root s=2.76 TeV**
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- CDXXVI. Measurement of the ratio B(B-s(0) -> J/psi f(0)(980))/B(B-s(0) -> J/psi phi(1020)) in pp collisions at root s=7 TeV**
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- CDXXVII. Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables**
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- CDXXVIII. 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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- CDXXX. 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**
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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 new phenomena in monophoton final states in proton-proton collisions at root s=8 TeV**
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- CDXXXIII. Measurement of the top quark mass using proton-proton data at root(s)=7**
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- CDXXXIV. Search for heavy Majorana neutrinos in e(+/-)e(+/-)+ jets and e(+/-) mu(+/-) +jetseventsinproton-protoncollisionsat root s=8TeV**
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- CDXXXV. 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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- CDXXXVI. Search for anomalous single top quark production in association with a photon in pp collisions at root s=8 TeV**
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- CDXXXVII. Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at root s=13 TeV**
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- DXXXVIII. 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. Event generator tunes obtained from underlying event and multiparton scattering measurements**
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- CDXL. **Measurements of t(t)over-bar spin correlations and top quark polarization using dilepton final states in pp collisions at root s=8 TeV**
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- CDXLI. **Transverse momentum spectra of inclusive b jets in pPb collisions atv root s(NN)=5.02 TeV**
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- CDXLII. **Measurement of the t(t)over-bar production cross section in the all-jets final state in pp collisions at root s=8TeV**
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- CDXLIII. **Search for excited leptons in proton-proton collisions at root s=8 TeV**
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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. **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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- CDXLVI. **Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at root s=13 TeV**
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- CDXLVII. **Search for exotic decays of a Higgs boson into undetectable particles and one or more photons**
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- CDXLVIII. **Search for single production of scalar leptoquarks in proton-proton collisions at root s=8 TeV**
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- CDXLIX. **Correlations between jets and charged particles in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- CDL. **Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at root s=13 TeV**
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- CDLI. **Search for W ' -> tb in proton-proton collisions at root s=8 TeV**
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- CDLII. Search for pair production of first and second generation leptoquarks in proton-proton collisions at root s=8 TeV**
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- CDLIII. 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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- CDLIV. Search for neutral MSSM Higgs bosons decaying to mu(+) mu(-) in pp collisions at root s=7 and 8 TeV**
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- CDLV. 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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- CDLVI. 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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- CDLVII. Reconstruction and identification of tau lepton decays to hadrons and nu(tau) at CMS**
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- CDLVIII. Observation of top quark pairs produced in association with a vector boson in pp collisions at root s=8 TeV**
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- CDLIX. Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at root s=8 TeV**
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- CDLX. Search for resonant t(t)over-bar production in proton-proton collisions at root s=8 TeV**
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- CDLXI. A search for pair production of new light bosons decaying into muons**
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- CDLXII. Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at root s(NN)=2.76 TeV**

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- CDLXIII. Study of B Meson Production in p plus Pb Collisions at root s(NN)=5.02 TeV Using Exclusive Hadronic Decays**
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- CDLXIV. 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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- CDLXV. Pseudorapidity distribution of charged hadrons in proton-proton collisions at root s=13TeV**
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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=8TeV**
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- CDLXVIII. Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root s=8TeV**
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- CDLXX. Angular coefficients of Z bosons produced in pp collisions at root S=8 TeV and decaying to mu(+)mu(-) as a function of transverse momentum and rapidity**
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- CDLXXI. Search for a charged Higgs boson in pp collisions at root s=8 TeV**
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- CDLXXII. Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at root s=8 TeV**
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- CDLXXIII. Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks**
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- DXLIV. **Measurement of the $t(t)\bar{\nu}$ production cross section in pp collisions at root s=8 TeV in dilepton final states containing one tau lepton**
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- DXLV. **Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at v root s=8 TeV**
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- DXLVI. **Measurement of Prompt $\psi(2S)$ to J/ψ . Yield Ratios in Pb-Pb and p-p Collisions at root sNN=2.76 TeV**
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- DXLVIII. 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**
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- DXLIX. 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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- DL. Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV**
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- DLI. Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at root $s=8$ TeV**
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- DLIII. Search for excited quarks in the gamma plus jet final state in proton-proton collisions at root $s=8$ TeV**
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- DLIV. 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**
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- DLVIII. Description and performance of track and primary-vertex reconstruction with the CMS tracker**
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- DLIX. Study of hadronic event-shape variables in multijet final states in pp collisions at root s=7 TeV**
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- DLXI. Search for the associated production of the Higgs boson with a top-quark pair**
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- DLXII. Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at root s=8 TeV**
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- DLXIII. Measurement of prompt J/psi pair production in pp collisions at root s = 7 TeV**
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- DLXIV. Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**
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- DLXV. Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs**
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- DLXVI. Measurement of the ratio B(t -> Wb)/B(t -> Wq) in pp collisions at root s=8 TeV**
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- DLXVIII. Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at root s=8 TeV**
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- DLXIX. Search for jet extinction in the inclusive jet-p(T) spectrum from proton-proton collisions at root s=8 TeV**
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- DLXX.** **Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at root s=8 TeV**
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- DLXXI.** JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2014 (SCI-Expanded)
- DLXXI.** **Measurement of jet fragmentation in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- DLXXII.** PHYSICAL REVIEW C, vol.90, no.2, 2014 (SCI-Expanded)
- DLXXII.** **Measurement of WZ and ZZ production in pp collisions at in final states with b-tagged jets**
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- DLXXIII.** EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
- DLXXIII.** **Measurement of the muon charge asymmetry in inclusive pp -> W plus X production at root s=7 TeV and an improved determination of light parton distribution functions**
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- DLXXIV.** PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
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- DLXXV.** EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
- DLXXV.** **Measurement of jet multiplicity distributions in t(t)over-bar production in pp collisions at root s=7TeV**
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- DLXXVI.** EUROPEAN PHYSICAL JOURNAL C, vol.74, no.8, 2014 (SCI-Expanded)
- DLXXVI.** **Search for anomalous production of events with three or more leptons in pp collisions at root s=8 TeV**
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- DLXXVII.** PHYSICAL REVIEW D, vol.90, no.3, 2014 (SCI-Expanded)
- DLXXVII.** **Search for WW gamma and WZ gamma production and constraints on anomalous quartic gauge couplings in pp collisions at root s=8 TeV**
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- DLXXVIII.** **Measurement of the production cross section for a W boson and two b jets in pp collisions at root s=7 TeV**
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- DLXXIX.** 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 root s(NN)=5.02 TeV**
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- DLXXX.** EUROPEAN PHYSICAL JOURNAL C, vol.74, no.7, 2014 (SCI-Expanded)
- DLXXX.** **Study of the production of charged pions, kaons, and protons in pPb collisions at root SNN=5.02 TeV**

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- DLXXXI. Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at root s=8 TeV**
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- DLXXXII. Measurement of the triple-differential cross section for photon plus jets production in proton-proton collisions at root s=7 TeV**
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- DLXXXIII. Measurement of the t-channel single-top-quark production cross section and of the |V (tb)| CKM matrix element in pp collisions at root s=8 TeV**
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- DLXXXIV. Alignment of the CMS tracker with LHC and cosmic ray data**
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- DLXXXV. Search for pair production of excited top quarks in the lepton plus jets final state**
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- DLXXXVI. Observation of a peaking structure in the J/psi phi mass spectrum from B-+/- -> J/psi phi K-+/- decays**
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- DLXXXVII. Search for supersymmetry in pp collisions at root s=8 TeV in events with a single lepton, large jet multiplicity, and multiple b jets**
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- LXXXVIII. Probing color coherence effects in pp collisions at root s=7 TeV**
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- DLXXXIX. Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at root s=7 TeV**
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- DXC. Observation of the Associated Production of a Single Top Quark - and a W Boson in pp Collisions at root s=8 TeV**
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- 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.
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- DXCII. Evidence for the 125 GeV Higgs boson decaying to a pair of tau leptons**
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- DXCIII. Measurement of Inclusive W and Z Boson Production Cross Sections in pp Collisions at root s=8 TeV**
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- DXCIV. Measurement of the properties of a Higgs boson in the four-lepton final state**
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- DXCV. Measurement of four-jet production in proton-proton collisions at root s=7 TeV**
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- DXCVI. Search for W' -> tb decays in the lepton plus jets final state in pp collisions at root s=8 TeV**
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- DXCVII. Search for Flavor-Changing Neutral Currents in Top-Quark Decays t -> Zq in pp Collisions at root s=8 TeV**
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- DXCVIII. Measurements of t(t)over-bar Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at root s=7 TeV**
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- DXCIX. 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.
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- DC. Event activity dependence of (nS) production in=5.02 TeV pPb and=2.76 TeV pp collisions**
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- DCI. Measurements of the t(t)Overbar charge asymmetry using the dilepton decay channel in pp collisions at root s=7 TeV**
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- DCII. Search for baryon number violation in top-quark decays**
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- DCIII. Search for Top-Quark Partners with Charge 5/3 in the Same-Sign Dilepton Final State**
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- DCIV. Measurement of the top-quark mass in all-jets $t(t)\bar{t}$ events in pp collisions at $\sqrt{s}=7$ 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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- DCV. 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.
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- 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., Ero J., Fabjan C., Friedl M., et al.
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- DCVII. 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., Ero J., Fabjan C., Friedl M., et al.
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- DCVIII. 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., Ero J., Fabjan C., Friedl M., et al.
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- DCIX. Measurement of the $t(t)\bar{t}$ production cross section in the dilepton channel 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.
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- DCX. 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., Ero J., Fabjan C., Friedl M., et al.
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- DCXI. Measurement of associated W plus charm production in pp collisions at $\sqrt{s}=7$ 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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- DCXII. Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s}=2.76$ 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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- DCXIII. Determination of the top-quark pole mass and strong coupling constant from the $t(t)\bar{t}$ 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., Ero J., Fabjan C., Friedl M., et al.
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- DCXIV. Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s}=8$ TeV**
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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. **Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**
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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. **Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV**
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- DCXIX. **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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- DCXX. **Search for top-squark pair production in the single-lepton final state in pp collisions at root s=8 TeV**
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- DCXXI. **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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- DCXXII. **Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV**
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- DCXXIII. **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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- DCXXIV. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
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- DCXXV. **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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- DCXXVI. Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
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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. 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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- DCXXIX. Angular analysis and branching fraction measurement of the decay B-0 -> K*(0)mu(+)mu(-)**
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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 W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
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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 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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- DCXXXV. Measurement of the W-boson helicity in top-quark decays from t(t)over-bar production in lepton plus jets events in pp collisions at root s=7 TeV**
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- DCXXXVI. **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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- DCXXXVII. **Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at root s=7 TeV**
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- DCXXXVIII. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root s=7 TeV**
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- DCXXXIX. **Interpretation of searches for supersymmetry with simplified models**
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- DCXL. **Search for supersymmetry in hadronic final states with missing transverse energy using the variables alpha(T) and b-quark multiplicity in pp collisions at root s=8 TeV**
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- DCXLI. **Measurement of the B-s(0) -> mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- DCXLII. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root s=7 TeV**
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- DCXLIII. **Searches for Higgs bosons in pp collisions at root s=7 and 8 TeV in the context of four-generation and fermiophobic models**
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- DCXLIV. **Searches for long-lived charged particles in pp collisions at root 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. **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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- 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**
- 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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- DCXLVIII. Search for microscopic black holes in pp collisions at root s=8 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. Measurement of the Lambda(0)(b) lifetime in pp collisions at root s=7 TeV**
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- DCLI. Limits on Spin-Independent Couplings of WIMP Dark Matter with a p-Type Point-Contact Germanium Detector**
- Li H. B., Liao H. Y., Lin S. T., Liu S. K., Singh L., Singh M. K., Soma A. K., Wong H. T., Wu Y. C., Zhao W., et al.
- PHYSICAL REVIEW LETTERS, vol.110, no.26, 2013 (SCI-Expanded)
- DCLII. Search for heavy resonances in the W/Z-tagged dijet mass spectrum 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.
- PHYSICS LETTERS B, vol.723, pp.280-301, 2013 (SCI-Expanded)
- DCLIII. Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- DCLIV. Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV 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.
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- DCLV. Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV**
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- DCLVI. Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**
- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
- PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- DCLVII. Search for anomalous production of highly boosted Z bosons decaying to mu(+)mu(-) in proton-proton 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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- DCLVIII. Search for fractionally charged particles 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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- DCLIX. **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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- DCLX. **Measurement of the t(t)over-bar production cross section in the all-jet final state in pp collisions at root s=7 TeV**
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- DCLXI. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCLXII. **Studies of jet mass in dijet and W/Z plus jet events**
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- DCLXIII. **Measurement of the inelastic proton-proton cross section at root s=7 TeV**
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- DCLXIV. **Search for long-lived particles in events with photons and missing energy in proton-proton 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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- DCLXV. **Event shapes and azimuthal correlations in Z plus jets events in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCLXVI. **Search for the standard model Higgs boson produced in association with a top-quark pair in pp 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.
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- DCLXVII. **Measurement of the X(3872) production cross section via decays to J/psi pi(+)pi(-) 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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- DCLXVIII. **Search for Z' resonances decaying to t(t)over-bar in dilepton plus jets final states in pp collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
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- DCLXIX. **Measurement of the W+W- and ZZ production cross sections in pp collisions at root s=8 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J.,

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- DCLXX. **Identification of b-quark jets with the CMS experiment**
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- DCLXXI. **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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- DCLXXII. **Measurement of the t(t)over-bar production cross section in the tau plus jets channel in pp collisions at root s=7 TeV**
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- DCLXXIII. **Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC**
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- DCLXXIV. **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.,
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- DCLXXV. **Search for pair-produced dijet resonances in four-jet final states in pp collisions at root s=7 TeV**
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 Fabjan C., et al.
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- DCLXXVI. **Measurement of associated production of vector bosons and top quark-antiquark pairs 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.,
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- DCLXXVII. **Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton 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.,
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- DCLXXVIII. **Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
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- DCLXXIX. **Measurement of differential top-quark-pair production cross sections 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.,
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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 excited leptons 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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- DCLXXXII. **Search for heavy narrow dilepton resonances in pp collisions at root s=7 TeV and root s=8 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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- DCLXXXIII. **Search for new physics in events with same-sign dileptons and b jets in pp collisions at root s=8 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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- DCLXXXIV. **Search for contact interactions using the inclusive jet p(T) spectrum in pp collisions at root s=7 TeV**
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- DCXC. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**
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DCXCIII. Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or >= 3 b-quark jets in 7 TeV pp collisions using the variable alpha(T)

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

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DCXCV. Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root s=7 TeV

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DCXCVI. Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at root s=7 TeV

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DCXCVII. Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-barl(+)l(-) final state

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DCXCVIII. Search for a W' boson decaying to a bottom quark and a top quark in pp collisions at root s=7 TeV

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

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

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DCCII. Measurement of the ZZ production cross section and search for anomalous couplings in 2l2l' final states in pp collisions at root s=7 TeV

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- DCCIV. **Observation of a diffractive contribution to dijet production in proton-proton collisions at root s = 7 TeV**
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- DCCVII. **Search for heavy quarks decaying into a top quark and a W or Z boson using lepton plus jets events in pp collisions at root s=7 TeV**
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DCCXV. 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

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DCCXVI. 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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DCCXVII. Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state

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DCCXVIII. Study of the Dijet Mass Spectrum in pp -> W + jets Events at root s=7 TeV

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DCCXIX. Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV

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DCCXX. Measurement of the top-quark mass in t(t)over-bar events with lepton plus jets final states in pp collisions at root s=7 TeV

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

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DCCXXI. Observation of Sequential upsilon Suppression in PbPb Collisions

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DCCXXII. 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

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DCCXXIII. 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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DCCXXIV. Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s=7 TeV

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- DCCXXVIII. **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**
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- DCCXXX. **Search for charge-asymmetric production of W' bosons in t(t)over-bar plus jet events from pp collisions at root s=7 TeV**
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- DCCXXXII. **Search for supersymmetry in hadronic final states using M-T2 in pp collisions at root s=7 TeV**
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- DCCXXXIII. **Measurement of the top-quark mass in t(t)over-bar events with dilepton final states in pp collisions at root s=7 TeV**
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- CCXXXVII. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root s=0.9, 2.76, and 7 TeV**
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- DCCXLI. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**
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- DCCXLII. **Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root s=7 TeV**
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- DCCXLIV. **Search for dark matter and large extra dimensions in monojet events in pp collisions at root s=7 TeV**
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- DCCLIV. **Search for stopped long-lived particles produced in pp collisions at root s=7 TeV**
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CCLXXXII. Search for the standard model Higgs boson decaying into two photons in pp collisions at root s=7 TeV

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CCLXXXIV. Inclusive b-jet production in pp collisions at root s=7 TeV

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CCLXXXV. Search for microscopic black holes in pp collisions at root s=7 TeV

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CCLXXXVI. Search for B-S(0) -> mu(+)mu(-) and B-0 -> mu(+)mu(-) decays

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CCLXXXIX. 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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DCCXC. Search for the standard model Higgs boson in the H -> ZZ -> 2l2v channel in pp collisions at root s=7 TeV

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

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DCCXCIII. Search for the Standard Model Higgs Boson in the Decay Channel H -> ZZ -> 4l in pp Collisions at root s=7 TeV

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

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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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DCCXCVII. Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at root(s)=7 TeV

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

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

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DCCC. Inclusive search for squarks and gluinos 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

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

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- DCCCXXI. **Measurement of the t(t)over-bar production cross section in pp collisions at root s=7 TeV using the kinematic properties of events with leptons and jets**
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Non Academic Experience

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