

Prof. MEHMET TEVFİK ZEYREK

Personal Information

Fax Phone: [+90 312 210 1105](tel:+903122101105)

Email: zeyrek@metu.edu.tr

Web: <http://www.physics.metu.edu.tr/People/MehmetZeyrek>

Address: Rektörlük ODTÜ 06800 Ankara

Education Information

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

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

Under Graduate, 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

Professional Experience

Vice Rector, Middle East Technical University, 2016 - Continues

Head of Department, 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, Post Graduate, 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, Post Graduate, M.ÜNAL(Student), 2015

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

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

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

ZEYREK M. T. , Production of Z+jet and HF jet energy scale calibration at 7 TeV in the CMS experiment at LHC, Post Graduate, 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. , Study on non standard interaction of neutrino and unparticle physics with neutrino-electron scattering data at low energy in texono experiment, Post Graduate, S.BİLMİŞ(Student), 2010

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

ZEYREK M. T. , Production of scalars at electron colliders in the context of the lightest Higgs model, Doctorate, A.ÇAĞIL(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 $H \rightarrow WW \rightarrow l\nu l\nu$ 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, Post Graduate, 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 $H \rightarrow ZZ \rightarrow l\nu l\nu$ in vector boson fusion at CMS experiment at the large hadron collider, Post Graduate, E.ÖZKAPICI(Student), 2001

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

- **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.
PHYSICAL REVIEW LETTERS, vol.125, 2020 (Journal Indexed in SCI)
- **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2020 (Journal Indexed in SCI)
- **Determination of the strong coupling constant $\alpha(S)(m(Z))$ from measurements of inclusive W-
+/- and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2020 (Journal Indexed in SCI)
- **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, 2020 (Journal Indexed in SCI)

Strange hadron production in pp and pPb collisions at $\sqrt{s}=5.02$ 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, 2020 (Journal Indexed in SCI)

Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.80, 2020 (Journal Indexed in SCI)

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, 2020 (Journal Indexed in SCI)

Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2020 (Journal Indexed in SCI)

Observation of the $\Lambda(0)b \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, vol.802, 2020 (Journal Indexed in SCI)

Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2020 (Journal Indexed in SCI)

Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, vol.801, 2020 (Journal Indexed in SCI)

Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2020 (Journal Indexed in SCI)

Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s}=13$ TeV

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

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

Multiparticle correlation studies in pPb collisions $\sqrt{s(NN)}=8.16$ TeV

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

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Observation of nuclear modifications in W-+/- boson production in pPb collisions at \sqrt{s}

$s(\text{NN})=8.16$ 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.

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

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

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

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, 2020 (Journal Indexed in SCI)

Probing the chiral magnetic wave in pPb and PbPb collisions at root $S\text{-NN}=5.02$ 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, 2019 (Journal Indexed in SCI)

Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root $S\text{-NN}=5.44$ 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 (Journal Indexed in SCI)

The Belle II Physics Book

Kou E., Urquijo P., Altmannshofer W., Beaujean F., Bell G., Beneke M., Bigi I. I. , Bishara F., Blanke M., Bobeth C., et al.

PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2019 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

Search for supersymmetry using Higgs boson to diphoton decays at root $s=13$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW C, vol.100, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)

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., Eroo J., Escalante Del Valle A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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., Eroo J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.796, pp.168-190, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.796, pp.131-154, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)

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., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.795, pp.76-99, 2019 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at root s(NN)=5.02 TeV

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

PHYSICAL REVIEW C, vol.100, 2019 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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 (Journal Indexed in SCI)

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, 2019 (Journal Indexed in SCI)

Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at root s=8 and 13 TeV

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

PHYSICS LETTERS B, vol.793, pp.320-347, 2019 (Journal Indexed in SCI)

An embedding technique to determine tau tau backgrounds in proton-proton collision data

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

Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, vol.14, 2019 (Journal Indexed in SCI)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

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

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

PHYSICS LETTERS B, vol.792, pp.107-131, 2019 (Journal Indexed in SCI)

Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV

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

EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)

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

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

PHYSICS LETTERS B, vol.792, pp.345-368, 2019 (Journal Indexed in SCI)

Measurement of inclusive very forward jet cross sections in proton-lead collisions at $p_{\text{sNN}}=5.02$ TeV

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

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

Combinations of single-top-quark production cross-section measurements and vertical $\bar{f}(L)V(t\bar{b})$ vertical bar determinations at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS experiments

Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)

Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV

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

PHYSICS LETTERS B, vol.792, pp.369-396, 2019 (Journal Indexed in SCI)

Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13$ TeV

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

- PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
Search for excited leptons in 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.
- JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)
Search for resonant $t(\bar{t})$ production in proton-proton collisions at root s=13 TeV
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E. , et al.
- JOURNAL OF HIGH ENERGY PHYSICS, 2019 (Journal Indexed in SCI)
Search for contact interactions and large extra dimensions in the dilepton mass spectra from 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, 2019 (Journal Indexed in SCI)
Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at root S-NN=5.02 TeV
 Sirunyan A. M. , Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E. , et al.
- PHYSICAL REVIEW LETTERS, vol.122, 2019 (Journal Indexed in SCI)
Observation of prompt J/psi meson elliptic flow in high-multiplicity 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.
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Collaboration

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● **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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● **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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● **Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state root s=13 TeV**

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● **Measurement of the $\Lambda(b)$ polarization and angular parameters in $\Lambda(b) \rightarrow J/\psi \Lambda$ decays from pp collisions at $\sqrt{s}=7$ and 8 TeV**

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

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● **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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● **Measurement of the Splitting Function in $t\bar{t}$ and Pb-Pb Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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● **Search for pair production of vector-like quarks in the $bW(b)\bar{W}$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e \mu$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV**

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● **Search for massive resonances decaying into WW , WZ , ZZ , qW , and qZ with dijet final states at $\sqrt{s}=13$ TeV**

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

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● **Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s}=8$ TeV**

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● **Measurement of normalized differential $t(\bar{t})$ over-bar cross sections in the dilepton channel from pp collisions at root $s=13$ TeV**

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● **Search for ZZ resonances in the $2l2\nu$ final state in proton-proton collisions at 13 TeV**

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

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● **Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s(NN)}=5.02$ and 8.16 TeV**

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

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● **Measurement of the top quark mass in the dileptonic t(t)-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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● **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**

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

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

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

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● **Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at root sNN=5.02 TeV**

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● **Measurement of the cross section for electroweak production of Z gamma in association with two**

jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at root s=8 TeV

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

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Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=8$ TeV

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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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● **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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● **Constraints on scalar-pseudoscalar and tensorial nonstandard interactions and tensorial unparticle couplings from neutrino-electron scattering**

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● **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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● **Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at root s=8TeV**

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● **Evidence for collectivity in pp collisions at the LHC**

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● **Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at root s=8 TeV**

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● **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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● **Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV**

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● **Inclusive search for supersymmetry using razor variables in pp collisions at root s=13 TeV**

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● **Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at**

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● **Measurement of the ZZ production cross section and $Z \rightarrow l^{(+)}l^{(-)}l'^{(+)}l'^{-}$ branching fraction in pp collisions at root s=13TeV**

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● **Searches for R-parity-violating supersymmetry in pp collisions at root s=8 TeV in final states with 0-4 leptons**

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● **Measurement of the inelastic cross section in proton-lead collisions at root s(NN)=5.02 TeV**

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● **Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks**
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- **Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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● **Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s(NN)}=5.02$ TeV**

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

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

● EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

● **Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV**

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

● JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)

● **Measurement of the Z gamma production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings**

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

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

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● PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)

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

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

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

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

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

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● **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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● **Observation of the diphoton decay of the Higgs boson and measurement of its properties**

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

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● **Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV**

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

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Search for jet extinction in the inclusive jet-p(T) spectrum from proton-proton collisions at root s=8 TeV
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Alignment of the CMS tracker with LHC and cosmic ray data

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Probing color coherence effects in pp collisions at root s=7 TeV

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

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

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

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

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Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV
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Measurements of the $t(\bar{t})$ Overbar charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s}=7$ TeV
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● **Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV**

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Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\alpha(T)$ and b-quark multiplicity in pp collisions at $\sqrt{s}=8$ TeV

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Interpretation of searches for supersymmetry with simplified models

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Measurement of the $B_s(0) \rightarrow \mu(+) \mu(-)$ Branching Fraction and Search for $B-0 \rightarrow \mu(+) \mu(-)$ with the CMS Experiment

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● **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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● **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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● **Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at root s=7 TeV**

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● **Search for microscopic black holes in pp collisions at root s=8 TeV**

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● **Limits on Spin-Independent Couplings of WIMP Dark Matter with a p-Type Point-Contact Germanium Detector**

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● **Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC**

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● **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**

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Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector

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Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV

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Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC

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

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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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● **Search for anomalous production of highly boosted Z bosons decaying to $\mu^{(+)}\mu^{(-)}$ in proton-proton collisions at $\sqrt{s}=7$ TeV**

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● **Search for Z' resonances decaying to $t(\bar{t})$ in dilepton plus jets final states in pp collisions at $\sqrt{s}=7$ TeV**

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

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

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