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Language skills

Русский English

Publications

Article
Proton reconstruction with the TOTEM Roman pot detectors for high-b∗ LHC data
A. Tumasyan, A. Hayrapetyan, et al

Journal of Instrumentation 2025 P04012

Article
Search for light long-lived particles decaying to displaced jets in proton-proton collisions at √s = 13.6 TeV
A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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Article
Model-agnostic search for dijet resonances with anomalous jet substructure in proton–proton collisions at √s = 13 TeV
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Article
Search for heavy neutral Higgs bosons A and H in the tt¯Z channel in proton-proton collisions at 13 TeV
A. Tumasyan, A. Hayrapetyan, A. Apresyan, M. Kirakosyan, CMS Collaboration

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A. Tumasyan, A. Hayrapetyan, A. Apresyan, M. Kirakosyan, CMS Collaboration

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Constraints on standard model effective field theory for a Higgs boson produced in association with W or Z bosons in the H → bb¯ decay channel in proton-proton collisions at √s = 13 TeV

A. Tumasyan, A. Hayrapetyan, CMS collaboration

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Article

Measurement of the inclusive WZ production cross section in pp collisions at √s = 13.6 TeV

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Article

Search for pair production of heavy particles decaying to a top quark and a gluon in the lepton+jets final state in proton–proton collisions at √s = 13 TeV

A. Tumasyan, A. Hayrapetyan, CMS Collaboration 2389

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Article

Measurement of the Higgs boson mass and width using the four-lepton final state in proton-proton collisions at √s = 13 TeV

A. Tumasyan, A. Hayrapetyan, M. Kirakosyan, A. Apresyan, A. Nikitenko, O. Kodolova,

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Search for New Resonances Decaying to Pairs of Merged Diphotons in Proton-Proton Collisions at √s = 13 TeV

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Stairway to discovery: A report on the CMS programme of cross section measurements from millibarns to femtobarns

A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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Dark sector searches with the CMS experiment

A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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Article

Energy-scaling behavior of intrinsic transverse-momentum parameters in Drell-Yan

simulation
A. Tumasyan, A. Hayrapetyan, M. Kirakosyan, A. Nikitenko, O. Kodolova, A. Apresyan,

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Article
Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at √s=13 TeV
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Article
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Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at √s=13 TeV
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Article
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New Structures in the J/PsiJ/Psi Mass Spectrum in Proton-Proton Collisions at √s=13 TeV
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Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at √sNN = 5.02TeV
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Article
Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at √s=13 TeV
A. Tumasyan, A. Hayrapetyan, CMS Collaboration 2305

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Article

Luminosity determination using Z boson production at the CMS experiment
A. Tumasyan, A. Hayrapetyan, CMS Collaboration 2345

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Article

Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at √s =13TeV
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A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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Article

Search for heavy neutral leptons in final states with electrons, muons, and hadronically decaying tau leptons in proton-proton collisions at √s = 13 TeV
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Performance of the CMS high-level trigger during LHC Run 2
A. Tumasyan, A. Hayrapetyan, et al

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Search for CP violation in D0 → K0S K0S decays in proton–proton collisions at √s = 13 TeV
A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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Measurements of polarization and spin correlation and observation of entanglement in top quark pairs using lepton + jets events from proton-proton collisions at √s = 13 TeV
A. Tumasyan, A. Hayrapetyan1, A. Nikitenko, M. Kirakosyan, A. Apresyan, CMS Collaboration

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Article

Observation of four top quark production in proton-proton collisions at √s=13 TeV
A. Tumasyan, CMS Collaboration 2318

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Article

Search for electroweak production of charginos and neutralinos at √s = 13 TeV in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum
A. Tumasyan, CMS Collaboration 2295

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Article

Search for Higgs Boson Decay to a Charm Quark-Antiquark Pair in Proton-Proton Collisions at √s=13 TeV
A. Tumasyan, CMS Collaboration 2362

Physical Review Letters 2023 061801

Article

Searches for additional Higgs bosons and for vector leptoquarks in ττ final states in proton-proton collisions at √s=13 TeV
A. Tumasyan, CMS collaboration 2380

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Measurements of Higgs boson production in the decay channel with a pair of τ leptons in proton–proton collisions at √s=13 TeV
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Measurement of the top quark mass using a profile likelihood approach with the lepton + jets final states in proton–proton collisions at √s=13TeV
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Search for physics beyond the standard model in top quark production with additional leptons in the context of effective field theory
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Observation of τ Lepton Pair Production in Ultraperipheral Pb-Pb Collisions at √sNN=5.02 TeV
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Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at √s=13 TeV
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Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the tt final state
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Physical Review D 2023 032013

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Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data
A. Tumasyan, CMS collaboration 2322

Journal of Instrumentation 2023 P11017
