Արմեն Ռաֆիկի Թումասյան

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Ֆիզիկայի ինստիտուտ
Միջուկային ֆիզիկայի և աստղաֆիզիկայի ամբիոն
Ամբիոնի վարիչ (ասիստենտ)

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Ֆիզիկայի գիտահետազոտական ինստիտուտ
Միջուկային ֆիզիկայի և աստղաֆիզիկայի կենտրոն
Կենտրոնի ղեկավար

Լեզուների իմացություն

Русский English

Հրապարակումներ

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

Journal of Instrumentation 2025 P04012

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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

Reports on Progress in Physics 2025 037801

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Model-agnostic search for dijet resonances with anomalous jet substructure in proton–proton collisions at √s = 13 TeV
A Tumasyan, A. Hayrapetyan, CMS Collaboration

Reports on Progress in Physics 2025 067802

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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

Physics Letters B 2025 139568

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Search for rare decays of the Z and Higgs bosons to a J/Psi or Psi(2S) meson and a photon in proton-proton collisions at √s=13TeV
A. Tumasyan, A. Hayrapetyan, A. Apresyan, M. Kirakosyan, CMS Collaboration

Physics Letters B 2025 139462

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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

Journal of High Energy Physics 2025 114

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

A. Tumasyan, A. Hayrapetyan, CMS collaboration

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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,

et al. (CMS Collaboration)

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Search for Nuclear Modifications of B+ Meson Production in p-Pb Collisions at √sNN = 8.16 TeV

A. Tumasyan, A. Hayrapetyan, A. Apresyan, M. Kiraksyan, A. Nikitenko, O. Kodolova, CMS Collaboration

Physical Review Letters 2025 111903

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

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

Physical Review Letters 2025 041801

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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

Physics Reports 2025 3-115

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Dark sector searches with the CMS experiment

A. Tumasyan, A. Hayrapetyan, CMS Collaboration

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

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

et al. (CMS Collaboration)
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Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at √sNN=5.02 TeV
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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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Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at √s=13 TeV
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A. Tumasyan, A. Hayrapetyan, CMS Collaboration 2191

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New Structures in the J/PsiJ/Psi Mass Spectrum in Proton-Proton Collisions at √s=13 TeV
A. Tumasyan, A. Hayrapetyan, CMS Collaboration 2320

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Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC
A. Tumasyan, A. Hayrapetyan, CMS Collaboration

Reports on Progress in Physics 2024 077801

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Search for heavy neutral leptons in final states with electrons, muons, and hadronically decaying tau leptons in proton-proton collisions at √s = 13 TeV
A. Tumasyan, A. A. Hayrapetyan, CMS collaboration

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Performance of the CMS high-level trigger during LHC Run 2
A. Tumasyan, A. Hayrapetyan, et al

Journal of Instrumentation 2024 P11021

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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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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
A. Tumasyan, A. Hayrapetyan, CMS collaboration

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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
A. Tumasyan, et al. 2283

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Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data
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