

ԱՍԳԼ-ի Հ. ՎԱՐԴԱՊԵՏՅԱՆԻ ԱՆՎԱՆ ՓՈՐՁԱՐԱՐԱԿԱՆ ՖԻԶԻԿԱՅԻ
ԲԱԺԱՆՍՈՒՆՔԻ ԳԻՏԱԿԱՆ ՀՐԱՊԱՐԱԿՈՒՄՆԵՐԻ ՑԱՆԿ

2025թ.

226 հրատարակում

1. Aram Hayrapetyan et al., (CMS Collaboration), “Search for a Neutral Gauge Boson with Nonuniversal Fermion Couplings in Vector Boson Fusion Processes in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys.Rev.Lett.* 135 (2025) 6, 061803.
2. V. Chekhovsky et al., (CMS Collaboration), “Identification of low-momentum muons in the CMS detector using multivariate techniques in proton-proton collisions at $\sqrt{s} = 13.6 \text{ TeV}$ ”, *JINST* 20 (2025) 04, P04021.
3. V. Chekhovsky et al., (CMS Collaboration), “Determination of the strong coupling and its running from measurements of inclusive jet production”, *Phys.Lett.B* 868 (2025) 139651.
4. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the W boson decay branching fraction ratio $B(W \rightarrow c\bar{q}) / B(W \rightarrow q, \bar{q})$ in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys. Lett. B* 868 (2025) 139754.
5. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of light-by-light scattering and the Breit-Wheeler process, and search for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ ”, *JHEP* 08 (2025) 006.
6. Aram Hayrapetyan et al., (CMS Collaboration), “Search for heavy neutral resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys.Rev.D* 111 (2025) 11, 112004.
7. Aram Hayrapetyan et al., (CMS Collaboration), “Model-agnostic search for dijet resonances with anomalous jet substructure in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Rep. Prog. Phys.* 88 (2025) 067802.
8. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the inclusive WZ production cross section in pp collisions at $\sqrt{s} = 13.6 \text{ TeV}$ ”, *JHEP* 04 (2025) 115.
9. Aram Hayrapetyan et al., (CMS Collaboration), “Search for heavy neutral Higgs bosons A and H in the $t\bar{t}Z$ channel in proton-proton collisions at 13 TeV ”, *Phys.Lett.B* 866 (2025) 139568.
10. Aram Hayrapetyan et al., (CMS and TOTEM Collaboration), “Proton reconstruction with the TOTEM Roman pot detectors for high- β^* LHC data”, *JINST* 20 (2025) 04, P04012.
11. Aram Hayrapetyan et al., (CMS Collaboration), “Constraints on standard model effective field theory for a Higgs boson produced in association with W or Z bosons in the $H \rightarrow b\bar{b}$, decay channel in proton-proton collisions”, *JHEP* 03 (2025) 114.
12. Aram Hayrapetyan et al., (CMS Collaboration), “Search for rare decays of the Z and Higgs bosons to a J/ψ or $\psi(2S)$ meson and a photon in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys.Lett.B* 865 (2025) 139462.
13. Aram Hayrapetyan et al., (CMS Collaboration), “Angular analysis of the $B^0 \rightarrow K^*(892)^0 \mu^+ \mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys.Lett.B* 864 (2025) 139406.
14. Aram Hayrapetyan et al., (CMS Collaboration), “Reweighting simulated events using machine-learning techniques in the CMS experiment”, *Eur.Phys.J.C* 85 (2025) 5, 495.
15. Aram Hayrapetyan et al., (CMS Collaboration), “Search for a heavy resonance decaying into a Z and a Higgs boson in events with an energetic jet and two electrons, two muons, or missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *JHEP* 02 (2025) 089.
16. Aram Hayrapetyan et al., (CMS Collaboration), “Measurements of inclusive and differential cross sections for top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *JHEP* 02 (2025) 177.
17. Aram Hayrapetyan et al., (CMS Collaboration), “Measurements of inclusive and differential cross sections for top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$, with 302 pb-1 of pp - collisions at $\sqrt{s} = 5.02 \text{ TeV}$ ”, *JHEP* 04 (2025) 099.
18. Aram Hayrapetyan et al., (CMS Collaboration), “Search for excited tau leptons in the $\tau\tau\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *JHEP* 06 (2025) 006.
19. Aram Hayrapetyan et al., (CMS Collaboration), “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 $\sqrt{s} = 13 \text{ TeV}$ ”, *Eur. Phys. J. C* 85 (2025) 342.
20. Aram Hayrapetyan et al., (CMS Collaboration), “Search for the Higgs boson decays to a ρ^0 , ϕ , or K^0_S meson and a photon in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”, *Phys. Lett. B* 862 (2025) 139296.

21. Aram Hayrapetyan et al., (CMS Collaboration), “Search for high-mass resonances in a final state comprising a gluon and two hadronically decaying W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV”, JHEP 02 (2025) 199.
22. Aram Hayrapetyan et al., (CMS Collaboration), “Search for heavy long-lived charged particles with large ionization energy loss in proton-proton collisions at $\sqrt{s} = 13$ TeV”, JHEP 04 (2025) 109.
23. Aram Hayrapetyan et al., (CMS Collaboration), “Study of same-sign W boson scattering and anomalous couplings in events with one tau lepton from pp collisions at $\sqrt{s} = 13$ TeV”, JHEP 10 (2025) 219.
24. Aram Hayrapetyan et al., (CMS Collaboration), “Energy-scaling behavior of intrinsic transverse-momentum parameters in Drell-Yan simulation”, Phys.Rev.D 111 (2025) 7, 072003.
25. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the Higgs boson mass and width using the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys.Rev.D 111 (2025) 9, 092014.
26. Aram Hayrapetyan et al., (CMS Collaboration), “Search for light long-lived particles decaying to displaced jets in proton-proton collisions at $\sqrt{s} = 13.6$ TeV”, Rep. Prog. Phys. 88 (2025) 037801.
27. Aram Hayrapetyan et al., (CMS Collaboration), “Bottom quark energy loss and hadronization with B+ and B0s nuclear modification factors using pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”, JHEP 02 (2025) 195.
28. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of inclusive and differential cross sections of single top quark production in association with a W boson in proton-proton collisions at $\sqrt{s} = 13.6$ TeV”, JHEP 01 (2025) 107.
29. Aram Hayrapetyan et al., (CMS Collaboration), “Pseudorapidity distributions of charged hadrons in lead-lead collisions at $\sqrt{s_{NN}} = 5.36$ TeV”, Phys.Lett.B 861 (2025) 139279.
30. Aram Hayrapetyan et al., (CMS Collaboration), “Search for dark matter produced in association with a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV”, JHEP 02 (2025) 050.
31. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the Drell-Yan forward-backward asymmetry and of the effective leptonic weak mixing angle in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys.Lett.B 866 (2025) 139526.
32. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the inclusive cross sections for W and Z boson production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV”, JHEP 04 (2025) 162.
33. Aram Hayrapetyan et al., (CMS Collaboration), “Search for bottom quark associated production of the standard model Higgs boson in final states with leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys.Lett.B 860 (2025) 139173.
34. Aram Hayrapetyan et al., (CMS Collaboration), “Test of lepton flavor universality in semileptonic Bc+ meson decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys.Rev.D 111 (2025) 5, L051102.
35. Aram Hayrapetyan et al., (CMS Collaboration), “Search for flavor-changing neutral current interactions of the top quark mediated by a Higgs boson in proton-proton collisions at 13 TeV”, Phys.Rev.D 112 (2025) 3, 032008.
36. Aram Hayrapetyan et al., (CMS Collaboration), “Multiplicity dependence of charm baryon and charm meson production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”, Phys.Lett.B 868 (2025) 139672.
37. Aram Hayrapetyan et al., (CMS Collaboration), “Constraints on the Higgs boson self-coupling from the combination of single and double Higgs boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys.Lett.B 861 (2025) 139210.
38. Aram Hayrapetyan et al., (CMS Collaboration), “Search for long-lived heavy neutral leptons in proton-proton collision events with a lepton-jet pair associated with a secondary vertex at $\sqrt{s} = 13$ TeV”, JHEP 02 (2025) 036.
39. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the tt, H and tH production rates in the H \rightarrow bb decay channel using proton-proton collision data at $\sqrt{s} = 13$ TeV”, JHEP 02 (2025) 097.
40. I. Dutta et al., “Results for pixel and strip centimeter-scale AC-LGAD sensors with a 120 GeV proton beam”, Nucl.Instrum.Meth.A 1072 (2025) 170224.
41. Aram Hayrapetyan et al., (CMS Collaboration), “Search for Nuclear Modifications of B+ Meson Production in p-Pb Collisions at $\sqrt{s_{NN}} = 8.16$ TeV”, Phys.Rev.Lett. 134 (2025) 11, 111903.
42. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of inclusive and differential cross sections for W+W- production in proton-proton collisions at $s = 13$ TeV”, Phys. Lett. B 861 (2025) 139231.
43. Aram Hayrapetyan et al., (CMS Collaboration), “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 $\sqrt{s} = 13$ TeV”, Phys.Lett.B 860 (2025) 139067.

44. Aram Hayrapetyan et al., (CMS Collaboration), “Stairway to discovery: A report on the CMS programme of cross section measurements from millibarns to femtobarns”, *Phys.Rept.* 1115 (2025) 3-115.
45. Aram Hayrapetyan et al., (CMS Collaboration), “Review of searches for vector-like quarks, vector-like leptons, and heavy neutral leptons in proton–proton collisions at $\sqrt{s} = 13$ TeV at the CMS experiment”, *Phys.Rept.* 1115 (2025) 570-677.
46. Aram Hayrapetyan et al., (CMS Collaboration), “Study of WH production through vector boson scattering and extraction of the relative sign of the W and Z couplings to the Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV”, *Phys.Lett.B* 860 (2025) 139202.
47. Aram Hayrapetyan et al., (CMS Collaboration), “Dark sector searches with the CMS experiment”, *Phys.Rept.* 1115 (2025) 448-569.
48. Aram Hayrapetyan et al., (CMS Collaboration), “Overview of high-density QCD studies with the CMS experiment at the LHC”, *Phys.Rept.* 1115 (2025) 219-367.
49. Aram Hayrapetyan et al., (CMS Collaboration), “Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV”, *Phys.Lett.B* 861 (2025) 139088.
50. Aram Hayrapetyan et al., (CMS Collaboration), “Search for New Resonances Decaying to Pairs of Merged Diphotons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV”, *Phys.Rev.Lett.* 134 (2025) 4, 041801.
51. Aram Hayrapetyan et al., (CMS Collaboration), “for Higgs boson production through decays of heavy resonances”, *Phys.Rept.* 1115 (2025) 368-447.
52. Aram Hayrapetyan et al., (CMS Collaboration), “Enriching the physics program of the CMS experiment via data scouting and data parking”, *Phys.Rept.* 1115 (2025) 678-772.
53. Aram Hayrapetyan et al., (CMS Collaboration), “Review of top quark mass measurements in CMS”, *Phys.Rept.* 1115 (2025) 116-218.
54. Aram Hayrapetyan et al., (CMS Collaboration), “Search for Fractionally Charged Particles in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV”, *Phys.Rev.Lett.* 134 (2025) 13, 131802.
55. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV”, *Phys.Lett.B* 868 (2025) 139651.
56. Aram Hayrapetyan, “The Reconstruction of Long-Lived Particles in the CMS (LHC) Experiment”, of *Contemporary Physics (Armenian Academy of Sciences)*, 16 March 2025, Volume 59, pages 353–358.
57. Budkovsky, D.V., Lapushansky, I.V., Tumasyan, A. et al., “The Potential for Observing Hadron Jets in the SPD Experiment at NICA”, *Phys. Part. Nuclei* 56, 784–789 (2025).
58. Aram Hayrapetyan et al., (CMS Collaboration), “Performance of heavy-flavour jet identification in Lorentz-boosted topologies in proton-proton collisions at $\sqrt{s} = 13$ TeV”, *JINST* 20 (2025) 11, P11006.
59. Aram Hayrapetyan et al., (CMS Collaboration), “A method for correcting the substructure of multiprong jets using the Lund jet plane”, *JHEP* 11 (2025) 038.
60. Aram Hayrapetyan et al., (CMS Collaboration), “Search for heavy pseudoscalar and scalar bosons decaying to a top quark pair in proton–proton collisions at, $\sqrt{s} = 13$ TeV”, *Rep. Prog. Phys.* 88 127801.
61. Aram Hayrapetyan et al., (CMS Collaboration), “Operation and performance of the CMS silicon strip tracker with proton-proton collisions at the CERN LHC”, *JINST* 20 (2025) 08, P08027.
62. Aram Hayrapetyan et al., (CMS Collaboration), “Search for top squarks in final states with many light-flavor jets and 0, 1, or 2 charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 10 (2025) 236.
63. Aram Hayrapetyan et al., (CMS Collaboration), “Determination of the spin and parity of all-charm tetraquarks”, *Nature* 648 (2025) 8092, 58-63.
64. V. Chekhovsky et al., (CMS Collaboration), “Search for the Rare Decay $D_0 \rightarrow \pi^+ \mu^-$ in Proton-Proton Collisions at $\sqrt{s} = 13.6$ TeV”, *Phys.Rev.Lett.* 135 (2025) 15, 151803.
65. V. Chekhovsky et al., (CMS Collaboration), “Search for dark matter produced in association with a Higgs boson decaying to a τ lepton pair in proton-proton collisions at, $\sqrt{s} = 13$ TeV”, *JHEP* 10 (2025) 170.
66. Aram Hayrapetyan et al., (CMS Collaboration), “Search for violation in events with top quarks and Z bosons at $\sqrt{s} = 13$ and 13.6 TeV”, CMS-PAS-TOP-24-012.
67. Aram Hayrapetyan et al., (CMS Collaboration), “Measurement of WWZ and ZH Production Cross Sections at $\sqrt{s} = 13$ and 13.6 TeV”, *Phys.Rev.Lett.* 135 (2025) 9, 091802.
68. V. Chekhovsky et al., (CMS Collaboration), “Measurement of event shapes in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV”, *Phys.Rev.D* 112 (2025) 11, 112006.
69. Aram Hayrapetyan et al., (CMS Collaboration), “Search for dark matter produced in association with one or two top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 08 (2025) 085.

70. Aram Hayrapetyan et al., (CMS Collaboration), “Measurements of inclusive and differential Higgs boson production cross sections at, $\sqrt{s} = 13.6$ TeV in the $H \rightarrow \gamma\gamma$ decay channel”, JHEP 09 (2025) 070.
71. V. Chekhovsky et al., (CMS Collaboration), “Search for jet quenching with dijets from high-multiplicity pPb collisions at, $\sqrt{s_{NN}} = 8.16$ TeV”, JHEP 07 (2025) 118.
72. Aram Hayrapetyan et al., (CMS Collaboration), “Observation of a pseudoscalar excess at the top quark pair production threshold,”, Rept.Prog.Phys. 88 (2025) 8, 087801.
73. V. Chekhovsky et al., (CMS Collaboration), “Observation of nuclear modification of energy-energy correlators inside jets in heavy ion collisions”, Phys.Lett.B 866 (2025) 139556.
74. V. Chekhovsky et al., (CMS Collaboration), “Search for dark matter production in association with a single top quark in proton-proton collisions at, $\sqrt{s} = 13$ TeV”, JHEP 09 (2025) 141.
75. V. Chekhovsky et al., (CMS Collaboration), “Search for vector-like leptons with long-lived particle decays in the CMS muon system in proton-proton collisions at, $\sqrt{s} = 13$ TeV”, JHEP 08 (2025) 156.
76. V. Chekhovsky et al., (CMS Collaboration), “Probing Gluon Fluctuations in Nuclei with the First Energy-Dependent Measurement of Incoherent J/ψ Photoproduction in Ultraperipheral PbPb Collisions”, Phys.Rev.Lett. 135 (2025) 11, 112301.
77. V. Chekhovsky et al., (CMS Collaboration), “Search for a cH signal in the associated production of at least one charm quark with a Higgs boson in the diphoton decay channel in pp collisions at $\sqrt{s} = 13$ TeV”, JHEP 11 (2025) 060.
78. Aram Hayrapetyan et al., (CMS Collaboration), “Search for New Physics in Jet Multiplicity Patterns of Multilepton Events at $\sqrt{s} = 13$ TeV”, Phys.Rev.Lett. 135 (2025) 23, 231804.
79. V. Chekhovsky et al., (CMS Collaboration), “Observation of the Charged-Particle Multiplicity Dependence of $\sigma\psi(2S)/\sigma J/\psi$ in p-Pb Collisions at 8.16 TeV”, Phys.Rev.Lett. 135 (2025) 9, 092301.
80. V. Chekhovsky et al., (CMS Collaboration), “Search for medium effects using jet axis decorrelation in inclusive jets from PbPb collisions at, $\sqrt{s_{NN}} = 5.02$ TeV”, JHEP 06 (2025) 120.
81. V. Chekhovsky et al., (CMS Collaboration), “Development of systematic uncertainty-aware neural network trainings for binned-likelihood analyses at the LHC, CMS Collaboration”, Eur.Phys.J.C 85 (2025) 11, 1360.
82. V. Chekhovsky et al., (CMS Collaboration), “Evidence for Similar Collectivity of High Transverse-Momentum Particles in p-Pb and Pb-Pb Collisions”, Phys.Rev.Lett. 135 (2025) 7, 071903.
83. Aram Hayrapetyan et al., (CMS Collaboration), “Observation of Λ Hyperon Local Polarization in p-Pb Collisions at $\sqrt{s_{NN}} = 8.16$ TeV”, Phys.Rev.Lett. 135 (2025) 13, 132301.
84. V. Chekhovsky et al., (CMS Collaboration), “Search for bosons of an extended Higgs sector in b quark final states in proton-proton collisions at, $\sqrt{s} = 13$ TeV”, JHEP 06 (2025) 144.
85. V. Chekhovsky et al., (CMS Collaboration), “Search for γH production and constraints on the Yukawa couplings of light quarks to the Higgs boson”, Phys.Rev.D 112 (2025) 11, 112001.
86. V. Chekhovsky et al., (CMS Collaboration), “Measurements of the Higgs boson production cross section in the four-lepton final state in proton-proton collisions at, $\sqrt{s} = 13.6$ TeV”, JHEP 05 (2025) 079.
87. V. Chekhovsky et al., (CMS Collaboration), “Search for a heavy pseudoscalar Higgs boson decaying to a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons in proton-proton collisions at, $\sqrt{s} = 13$ TeV”, JHEP 10 (2025) 074.
88. G. Aad et al., (ATLAS Collaboration), “Search for the production of a Higgs boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 10 (2025), 093.
89. G. Aad et al., (ATLAS Collaboration), “Evidence for the Dimuon Decay of the Higgs Boson in pp Collisions with the ATLAS Detector”, Phys. Rev. Lett. 135 (2025) no.23, 231802.
90. G. Aad et al., (ATLAS Collaboration), “Measurements and interpretations of WZ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 11 (2025), 006.
91. G. Aad et al., (ATLAS Collaboration), “A search for dark matter produced in association with a dark Higgs boson decaying into a Higgs boson pair in 3b or 4b final states using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 09 (2025), 067.
92. G. Aad et al., (ATLAS Collaboration), “Search for decays of the Higgs boson into scalar particles decaying into four or six b-quarks using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Phys. Rev. D 112 (2025) no.7, 072005.

93. G. Aad et al., (ATLAS Collaboration), “Probing the Higgs boson CP properties in vectorboson fusion production in the $H \rightarrow \tau^+ \tau^-$ channel with the ATLAS detector”, JHEP 10 (2025), 092.
94. G. Aad et al., (ATLAS Collaboration), “An implementation of neural simulation-based inference for parameter estimation in ATLAS”, Rept. Prog. Phys. 88 (2025) no.6, 067801.
95. G. Aad et al., (ATLAS Collaboration), “A continuous calibration of the ATLAS flavourtagging classifiers via optimal transportation maps”, Eur. Phys. J. C 85 (2025) no.11, 1272.
96. G. Aad et al., (ATLAS Collaboration), “Observation of double parton scattering in same-sign W boson pair production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, Phys. Lett. B 870 (2025), 139892.
97. G. Aad et al., (ATLAS Collaboration), “Search for emerging jets in pp collisions at $\sqrt{s} = 13.6$ TeV with the ATLAS experiment”, Rept. Prog. Phys. 88 (2025) no.9, 097801.
98. G. Aad et al. (ATLAS), “Search for new physics in final states with semivisible jets or anomalous signatures using the ATLAS detector”, Phys. Rev. D 112 (2025) no.1, 012021.
99. G. Aad et al., (ATLAS Collaboration), “Constraining off-shell Higgs boson production and the Higgs boson total width using $WW \rightarrow \ell \nu \ell \nu$ final states with the ATLAS detector”, Phys. Lett. B 870 (2025), 139898.
100. G. Aad et al., (ALICE and ATLAS Collaborations), “Measurement of substructuredependent suppression of large-radius jets with charged particles in Pb+Pb collisions with ATLAS”, Phys. Lett. B 871 (2025), 139929.
101. G. Aad et al. (ATLAS), “Search for electroweak production of vectorlike leptons in τ -lepton and b-jet final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.11, 1335.
102. G. Aad et al. (ATLAS), “Search for events with one displaced vertex from long-lived neutral particles decaying into hadronic jets in the ATLAS muon spectrometer in pp collisions at $\sqrt{s}=13$ TeV”, Phys. Rev. D 112 (2025) no.9, 092001.
103. G. Aad et al., (ATLAS Collaboration), “A measurement of the high-mass $\tau \tau$ production cross-section at $\sqrt{s} = 13$ TeV with the ATLAS detector and constraints on new particles and couplings”, JHEP 10 (2025), 054.
104. G. Aad et al., (ATLAS Collaboration), “Measurements of the production cross-sections of a Higgs boson in association with a vector boson and decaying into WW^* with the ATLAS detector at $\sqrt{s} = 13$ TeV”, JHEP 08 (2025), 034.
105. G. Aad et al., (ATLAS Collaboration), “Searches for direct slepton production in the compressed-mass corridor in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, JHEP 08 (2025), 053.
106. G. Aad et al., (ATLAS Collaboration), “Search for a new pseudoscalar decaying into a pair of bottom and antibottom quarks in top-associated production in $\sqrt{s} = 13$ TeV proton–proton collisions with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.8, 886.
107. G. Aad et al., (ATLAS Collaboration), “Search for heavy neutral leptons in decays of W bosons using leptonic and semi-leptonic displaced vertices in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, JHEP 07 (2025), 196.
108. G. Aad et al. (ATLAS), “Search for cascade decays of charged sleptons and sneutrinos in final states with three leptons and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, Phys. Rev. D 112 (2025) no.1, 012005.
109. G. Aad et al., (ATLAS Collaboration), “Evidence for Longitudinally Polarized W Bosons in the Electroweak Production of Same-Sign W Boson Pairs in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector”, Phys. Rev. Lett. 135 (2025) no.11, 111802.
110. G. Aad et al., (ATLAS Collaboration), “Charged-hadron and identified-hadron (K_S^0 , Λ , Ξ^-) yield measurements in photonuclear Pb+Pb and p+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with ATLAS”, Phys. Rev. C 111 (2025) no.6, 064908.

111. G. Aad et al., (ATLAS Collaboration), “Search for Higgs boson exotic decays into Lorentz-boosted light bosons in the four- τ final state at $s=13\text{TeV}$ with the ATLAS detector”, Phys. Lett. B 870 (2025), 139843.
112. G. Aad et al., (ATLAS Collaboration), “Measurement of double-differential charged-current Drell-Yan cross-sections at high transverse masses in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, JHEP 07 (2025), 026.
113. G. Aad et al. (ATLAS), “Measurement of the top quark mass with the ATLAS detector using $t\bar{t}$ events with a high transverse momentum top quark”, Phys. Lett. B 867 (2025), 139608.
114. G. Aad et al., (ATLAS Collaboration), “Measurement of W_{\pm} -boson differential crosssections in proton-proton collisions with low pile-up data at $\sqrt{s} = 5.02 \text{ TeV}$ and 13 TeV with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.7, 729.
115. G. Aad et al., (ATLAS Collaboration), “Weakly supervised anomaly detection for resonant new physics in the dijet final state using proton-proton collisions at $s=13 \text{ TeV}$ with the ATLAS detector”, Phys. Rev. D 112 (2025) no.7, 072009.
116. G. Aad et al., (ATLAS Collaboration), “Search for long-lived charged particles using large specific ionisation loss and time of flight in 140 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, JHEP 07 (2025), 140.
117. G. Aad et al., (ATLAS Collaboration), “Measurement of jet track functions in pp collisions at $s=13 \text{ TeV}$ with the ATLAS detector”, Phys. Lett. B 868 (2025), 139680.
118. G. Aad et al., (ATLAS Collaboration), “Configuration, Performance, and Commissioning of the ATLAS b-jet Triggers for the 2022 and 2023 LHC data-taking periods”, JINST 20 (2025) no.03, P03002.
119. G. Aad et al., (ATLAS Collaboration), “Search for charged Higgs bosons produced in topquark decays or in association with top quarks and decaying via $H_{\pm} \rightarrow \tau_{\pm} \nu_{\tau}$ in 13 TeV pp collisions with the ATLAS detector”, Phys. Rev. D 111 (2025) no.7, 072006.
120. G. Aad et al., (ATLAS Collaboration), “Azimuthal anisotropies of charged particles with high transverse momentum in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ with the ATLAS detector”, Phys. Rev. C 112 (2025) no.2, 024910.
121. G. Aad et al., (ATLAS Collaboration), “Energy scale and resolution for anti-kt jets with radius parameters $R = 0.2$ and 0.6 measured in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.7, 791.
122. G. Aad et al., (ATLAS Collaboration), “Observation of $V V Z$ production at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Phys. Lett. B 866 (2025), 139527.
123. G. Aad et al., (ATLAS Collaboration), “Improved reconstruction of highly boosted τ - lepton pairs in the $\tau\tau \rightarrow (\mu\nu\mu\nu)(\text{hadrons}+\nu_{\tau})$ decay channels with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.6, 706.
124. G. Aad et al. (ATLAS), “Expected tracking performance of the ATLAS Inner Tracker at the High-Luminosity LHC”, JINST 20 (2025) no.02, P020.
125. G. Aad et al., (ATLAS Collaboration), “Search for Higgs boson decays into a pair of pseudoscalar particles in the $\gamma\gamma\text{had}\tau\text{had}$ final state using pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, JHEP 03 (2025), 19.
126. G. Aad et al., (ATLAS Collaboration), “Cross-section measurements for the production of a W-boson in association with high-transverse-momentum jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Eur. Phys. J. C 85 (2025) no.7, 738.
127. G. Aad et al., (ATLAS Collaboration), “Test of lepton flavour universality in W-boson decays into electrons and τ -leptons using pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, JHEP 05 (2025).
128. G. Aad et al., (ATLAS Collaboration), “Measurement of off-shell Higgs boson production in the $H^* \rightarrow ZZ \rightarrow 4\ell$ decay channel using a neural simulationbased inference technique in 13 TeV pp collisions with the ATLAS detector”, Rept. Prog. Phys. 88 (2025) no.5, 057803.

129. G. Aad et al., (ATLAS Collaboration), “Search for Higgs boson decays into a Z boson and a light hadronically decaying resonance in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Lett. B* 868 (2025), 139671.
130. G. Aad et al., (ATLAS Collaboration), “Observation of $t\bar{t}$ Production in Pb+Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS Detector”, *Phys. Rev. Lett.* 134 (2025) no.14, 142301.
131. G. Aad et al., (ATLAS Collaboration), “Reconstruction and identification of pairs of collimated τ - leptons decaying hadronically using $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”, *Eur. Phys. J. C* 85 (2025) no.5, 561.
132. G. Aad et al., (ATLAS Collaboration), “Search for vector-like leptons coupling to first- and second-generation Standard Model leptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* 05 (2025), 075.
133. G. Aad et al., (ATLAS Collaboration), “Search for a heavy charged Higgs boson decaying into a W boson and a Higgs boson in final states with leptons and b-jets in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *JHEP* 02 (2025), 143.
134. G. Aad et al., (ATLAS Collaboration), “Search for triple Higgs boson production in the 6b final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Rev. D* 111 (2025) no.3, 032006.
135. G. Aad et al., (ATLAS Collaboration), “Measurements of WH and ZH production with Higgs boson decays into bottom quarks and direct constraints on the charm Yukawa coupling in 13 TeV pp collisions with the ATLAS detector”, *JHEP* 04 (2025), 075.
136. G. Aad et al., (ATLAS Collaboration), “Search for displaced leptons in $\sqrt{s} = 13$ TeV and 13.6 TeV pp collisions with the ATLAS detector”, *Phys. Rev. D* 112 (2025) no.1, 012016.
137. G. Aad et al., (ATLAS Collaboration), “Search for same-charge top-quark pair production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* 02 (2025), 084.
138. G. Aad et al., (ATLAS Collaboration), “Measurement of photonuclear jet production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector”, *Phys. Rev. D* 111 (2025) no.5, 052006.
139. G. Aad et al., (ATLAS Collaboration), “Measurement of top-quark pair production in association with charm quarks in proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Lett. B* 860 (2025), 139177.
140. G. Aad et al., (ATLAS Collaboration), “Search for Magnetic Monopole Pair Production in Ultraperipheral Pb+Pb Collisions at $\sqrt{s_{NN}}=5.36$ TeV with the ATLAS Detector at the LHC”, *Phys. Rev. Lett.* 134 (2025) no.6, 061803.
141. G. Aad et al., (ATLAS Collaboration), “Combination of searches for singly produced vectorlike top quarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Rev. D* 111 (2025) no.1, 012012.
142. G. Aad et al. (ATLAS Collaboration), “Differential cross-section measurements of Higgs boson production in the $H \rightarrow \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* 03 (2025), 010.
143. G. Aad et al., (ATLAS Collaboration), “Constraint on the total width of the Higgs boson from Higgs boson and four-top-quark measurements in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett. B* 861 (2025), 139277.
144. G. Aad et al., (ATLAS Collaboration), “Combination of searches for singly and doubly charged Higgs bosons produced via vector-boson fusion in proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Lett. B* 860 (2025), 139137.
145. G. Aad et al., (ATLAS Collaboration), “Measurement of the associated production of a topantitop-quark pair and a Higgs boson decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC”, *Eur. Phys. J. C* 85 (2025) no.2, 210.
146. I. J. Abualro, S. Acharya, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Study of $\langle p_T \rangle$ and its higher moments, and extraction of the speed of sound in Pb-Pb collisions with ALICE”, *JHEP* 11 (2025), 076.

147. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration) “D0-meson-tagged jet axes difference in proton-proton collisions at 5.02 TeV”, *Phys. Rev. D* 112 (2025) No 9, 092012.
148. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “First measurement of D^{*+} vector meson spin alignment in Pb–Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV”, *JHEP* 10 (2025), 094.
149. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Multiplicity-dependent inclusive J/ψ production at forward rapidity in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 7 (2025), 238.
150. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of correlations among net-charge, net-proton, and net-kaon multiplicity distributions in Pb-Pb collisions at 5.02 TeV”, *JHEP* 8 (2025), 210.
151. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of meson production in pp and p-Pb collisions at 5.02 TeV”, *Phys. Rev. C*, 112 (2025) no 4, 4.
152. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Investigating the $p\text{--}\pi^{+}$ and $p\text{--}p\text{--}\pi^{+}$ dynamics with femtoscopy in pp collisions at $\sqrt{s}=13$ TeV”, *Eur. Phys. J. A* 61 (2025) no. 8, 194.
153. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Observation of the $\Omega(2112)$ baryon at the LHC”, *Phys. Rev. D*, 112 (2025) no 9, 9.
154. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Charged-particle multiplicity distributions over a wide pseudorapidity range in p–Pb collisions at 5.02 TeV”, *Eur. Phys. J. C* 85 (2025) no 8, 919.
155. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “First measurement of symmetric cumulants of hexagonal flow harmonics in Pb-Pb collisions at TeV”, *Phys. Rev. C* 112 (2025) no 2, 2.
156. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Direct-photon production in inelastic and high-multiplicity proton–proton collisions at 13 TeV”, *Phys. Lett. B* 868 (2025), 139645.
157. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Studying charm hadronisation into baryons with azimuthal correlations of with charged particles in pp collisions at TeV”, *Phys. Lett. B* 868 (2025), 139681.
158. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al. (ALICE Collaboration), “Measurement of ω meson production in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 4 (2025), 067.
159. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al. (ALICE Collaboration), “System size and energy dependence of the mean transverse momentum fluctuations at the LHC”, *Eur. Phys. J C* 85 (2025) no 7, 776.
160. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Light neutral-meson production in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 8 (2025), 035.
161. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Proton emission in ultraperipheral Pb-Pb collisions at 5.02 TeV”, *Phys. Rev. C* 111 (2025) no 5, 054906.
162. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurements of differential two-particle number and transverse momentum correlation functions in pp collisions at $\sqrt{s} = 13$ TeV”, *Eur. Phys. J C* 85 (2025) no 8, 866.
163. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Medium-induced modification of groomed and ungroomed jet mass and angularities in Pb–Pb collisions at the LHC”, *Phys. Lett. B* 864 (2025), 139409.
164. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Multimuons in cosmic-ray events as seen in ALICE at the LHC”, *Journal of Cosmology and Astroparticle Physics* 04 (2025), 009.

165. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “First Measurement of A=4 Hypernuclei and Antihypernuclei at the LHC”, *Phys. Rev. Lett.* 134 (2025) no 16, 162301.
166. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “First observation of strange baryon enhancement with effective energy in pp collisions at the LHC”, *JHEP*, 3 (2025), 029.
167. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Search for Quasiparticle Scattering in the Quark-Gluon Plasma with Jet Splittings in pp and Pb-Pb Collisions at the LHC”, *Phys. Rev. Lett.* 135 (2025) no 3, 031901.
168. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “First measurement of Ds1(1+)(2536)+ and Ds2(2+)(2573)+ production in proton-proton collisions at the LHC”, *Phys. Rev. D* 111 (2025) no 11, 112005.
169. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of f1(1285) production in pp collisions at = 13 TeV”, *Phys. Lett. B* 866 (2025), 139562.
170. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Exploring nuclear structure with multiparticle azimuthal correlations at the LHC”, *Phys. Lett. B* 869 (2025), 139855.
171. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Higher-order symmetry plane correlations in Pb-Pb collisions at 5.02 TeV”, *Phys. Rev. C* 111 (2025), no 6, 064913.
172. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “J/ψ-hadron correlations at midrapidity in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP* 7 (2025) 023.
173. S. Acharya, A. Agarwal, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Multiplicity-dependent jet modification from di-hadron correlations in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP*, 3 (2025) 194.
174. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Particle production as a function of charged-particle flatnecity in pp collisions at 13 TeV”, *Phys. Rev. D* 111 (2025) no 1, 012010.
175. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Rapidity dependence of antideuteron coalescence in pp collisions at 13 TeV with ALICE”, *Phys. Lett. B* 860 (2025), 139191.
176. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of the inclusive isolated-photon production cross section in pp collisions at $\sqrt{s}=13$ TeV”, *Eur. Phys. J. C* 85 (2025), no 1, 98.
177. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of Lambda3H production in Pb-Pb collisions at 5.02 TeV”, *Phys. Lett. B* 860 (2025) 139066.
178. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Probing Strangeness Hadronization with Event-by-Event Production of Multistrange Hadrons”, *Phys. Rev. Lett.* 134 (2025), no 2, 022303.
179. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Investigating baryon production in p-Pb collisions in jets and the underlying event using angular correlations”, *Phys. Rev. C* 111 (2025) no 1, 015201.
180. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), “Measurement of the production cross section of prompt Ξ^0_{charm} baryons in p-Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV”, *Eur. Phys. J. C* 85 (2025) no 1, 86.
181. S. Acharya, D. Adamová, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), “Common femtoscopic hadron-emission source in pp collisions at the LHC”, *Eur. Phys. J. C* 85 (2025) no 2, 198.

182. Acharya, D. Adamová, G. Aglieri Rinella, ..., S. Grigoryan et al., (ALICE Collaboration), "Dielectron production in central Pb-Pb collisions at 5.02 TeV", *Phys. Rev. C* 112 (2025) no5, 054906.
183. S. Acharya, D. Adamová, A. Adler, ..., S. Grigoryan et al., (ALICE Collaboration), "First polarisation measurement of coherently photoproduced J/ψ in ultra-peripheral Pb-Pb collisions at TeV", *Phys. Lett. B* 865 (2025) 139466.
184. S. Acharya, D. Adamová, A. Adler, ..., S. Grigoryan et al., (ALICE Collaboration), "Multiplicity dependence of Υ production at forward rapidity in pp collisions at 13 TeV", *Nucl. Phys. B* 111 (2025) 116786.
185. S. Acharya, D. Adamová, A. Agarwal, ..., S. Grigoryan et al., (ALICE Collaboration), "Addendum: Dielectron production in proton-proton and proton-lead collisions at 5.02 TeV", *Phys. Rev. C* 111 (2025) no 2, 024905.
186. G.D. Alexeev et al., (COMPASS Collaboration), "Measurement of the Hard Exclusive π^0 Muoproduction Cross Section at COMPASS", *Phys. Lett. B* 870 (2025) 139832.
187. G.D. Alexeev et al., (COMPASS Collaboration), "Multiplicities of Positive and Negative Pions, Kaons, and Unidentified Hadrons from Deep-Inelastic Scattering of Muons off a Liquid Hydrogen Target", *Phys. Rev. D* 112 (2025) 012002.
188. D. Abrams et al., "EMC Effect of Tritium and Helium-3 from the JLab MARATHON Experiment", *Phys.Rev.Lett.* 135 (2025) 6, 062502.
189. S. Li., S. N. Santiesteban, J. Arrigton et al., "Inclusive studies of two- and three-nucleon short-range correlations in ^3H and ^3He ", *Phys.Lett.B* 868 (2025) 139734.
190. L. Clark, B. McKinnon, D. G. Ireland, et al., (CLAS Collaboration), "Photoproduction of the hyperon using linearly polarized photons with CLAS", *Phys. Rev. C* 111 (2025) no 2, 025204/10.
191. T. Mineeva, W. K. Brooks, A. El Alaoui, et al., (CLAS Collaboration), "Suppression of neutral-pion production in deep-inelastic scattering off nuclei with the CLAS detector", *Phys. Rev. C* 112 (2025) no 3, 035203/8.
192. S. J. Paul, S. Morán, M. Arratia, et al., (CLAS Collaboration), "Dihadron azimuthal correlations in deep-inelastic scattering off nuclear targets", *Phys. Rev. C* 111 (2025), no 3, 035201/32.
193. P. Roy, S. Cao, V. Crede, et al., (CLAS Collaboration), *Physical Review C*, 2025, 112 (3), 035201/22.
194. A. Kripko, S. Diehl, K. Joo, et al., (CLAS Collaboration), "Multidimensional measurements of beam single-spin asymmetries in semi-inclusive deep- inelastic charged-kaon electroproduction off protons in the valence region", *Phys. Rev. C* 112 (2025) no 5, 055202/8.
195. D. S. Carman, A. D'Angelo, L. Lanza, et al., (CLAS Collaboration), "Recoil polarization in electroproduction in the nucleon resonance region with CLAS12" Measurement of single- and double-polarization observables in the photoproduction of meson pairs off the proton using CLAS at Jefferson Laboratory", *Phys. Rev. C* 112 (2025) no 3, 035206/23.
196. A. Deur, S. E. Kuhn, M. Ripani, et al., (CLAS Collaboration), "Measurement of the nucleon spin structure functions for using CLAS", *Phys. Rev. C* 111 (202), no3, 035202/33.
197. A. V. Sarantsev, E. Klempt, K. V. Nikonov, et al., "Photoproduction of two charged pions off protons in the resonance region", *Phys. Rev. C* 111 (2025), no 3, 035203/19.
198. V. Klimenko, D. S. Carman, R. W. Gothe et al., (CLAS Collaboration), "Inclusive electron scattering in the resonance region off a hydrogen target", *Phys.Rev.C* 112 (2025) no 2,025201.
199. H. Bhatt et al., "Flavor dependence of charged pion fragmentation functions", *Phys. Lett. B* 865 (2025)139485.
200. T. Horn et al., "Scintillating glass for precision calorimetry in nuclear physics", *Eur. Phys. Journal A* 61 (2025) 72.
201. F. Afzal et al., (GlueX Collaboration), "First measurement of a_{20} (1320) polarized photoproduction cross section", *Phys. Rev. C* 112 (2025) no 1, 015204.

202. F. Afzal, C.S. Akondi, M. Albrecht et al., (GlueX Collaboration), "Measurement of spin-density matrix elements in $\phi(1020) \rightarrow K_S^0 K_L^0$ photoproduction with a linearly polarized photon beam at $E_\gamma = 8.2\text{--}8.8$ GeV", *Phys.Rev.C* 112 (2025) no 2, 025203.
203. J.R. Pybus, L. EHINGWR, T. Kolar et al., "First Measurement of Near-Threshold and Subthreshold J/ψ Photoproduction off Nuclei", *Phys.Rev.Lett.* 134 (2025) 20, 201903.
204. F. Afzal, C.S. Akondi, M. Albrecht, M. Amaryan et al., "Measurement of spin-density matrix elements in $\Delta^{++}(1232)$ photoproduction", *Physics Letters B* 863 (2025), 139368.
205. F. Afzal, C.S. Akondi, M. Albrecht et al., "Measurement of the total Compton scattering cross section between 6.5 and 11 GeV", *Phys.Lett.B* 870 (2025), 139914.
206. F. Aharonian, F. Ait Benkhali, J. Aschersleben, ... V. Sahakian, ... et al., (H.E.S.S. Collaboration), "The H.E.S.S. extragalactic sky survey with the first decade of observations", *Astronomy & Astrophysics*, 695, A261 (2025).
207. H. Abe, S. Abe, V. A. Acciari ... V. Sahakian, ... et al., "Multiwavelength study of OT 081: broadband modelling of a transitional blazar", *Monthly Notices of the Royal Astronomical Society*, 540, 364–384 (2025).
208. F. Aharonian, F. Ait Benkhali, J. Aschersleben, ... V. Sahakian, ... et al (H.E.S.S. Collaboration), "Detection of very high-energy gamma-ray emission from Eta Carinae during its 2020 periastron passage", *Astronomy & Astrophysics*, 694, A328 (2025).
209. H. Mkrtchyan, H. Marukyan, A. Mkrtchyan, A. Shahinyan, V. Tadevosyan, H. Voskanyan, A. Movsisyan and A. Hoghmrtsyan, "Lead Tungstate Electromagnetic Calorimeter Prototype Built in AANL for EIC", *EPJ Web of Conferences* 320 (2025) 00049.
210. X. Li, J.K. Adkins, Y. Akiba et al., "Design of the ECCE detector for the Electron Ion Collider", *Nucl.Instrum.Meth.A* 1073 (2025) 170240.
211. V. Kakoyan et al., "Picosecond resolution photoelectron emission lifetime detection system", *JINST*, 20 (07) (2025) C07030.
212. D. Adhikari et al., "Measurement of the parity-violating asymmetry in the $\Sigma \rightarrow \Delta$ transition at low Q^2 ", *Phys. Rev. C* 112 (2025) no 1, L012501.
213. A. R. Balabekyan et al, Low-pressure multi-wire proportional chamber-based fission-fragment sensitive detection system: application in nuclear forensic analysis, *Eur. Phys. J. Spec. Top.* (2025), <https://doi.org/10.1140/epjs/s11734-025-01689-7>.
214. Hayk L. Gevorgyan, "Narrowband and passband composite rotational quantum gates", *Phys. Rev. A* 111 (2025) no 5, 052607.
215. Hayk L. Gevorgyan, "Ultra-broadband, ultra-narrowband, and ultra-passband composite polarisation half-wave plates, ultra-broadband composite polarisation π -rotators, and on the quantum-classical analogy", *Optics Express* 33 (2025) no 11, 23095.
216. Hayk L. Gevorgyan et al., "Line shape of soft photon radiation generated at zero angle in an undulator with a dispersive medium", *Nucl.Instrum.Meth. A* 1075 (2025) no 3, 170313.
217. Hayk L. Gevorgyan and Andon A. Rangelov, "Arbitrary polarization retarders and polarization controllers, constructed from sequences of half-Wave and quarter-wave plates", *Photonics* 12 (2025) no 8, 754.
218. N. Margaryan et al., "Enhancement of infrared absorption of liquid-phase exfoliated graphene by 15.5 MeV proton irradiation in ambient conditions", *Materials Letters*, 399, (2025) 139035.
219. N. Margaryan et al., "Thermal reduction and fractal analysis of liquid phase exfoliated graphene", *Nucl.Instrum.Meth. A* 1075 (2025) 170407.
220. Vigen R. Gareyan, Narek B. Margaryan, Zhyrair S. Gevorkian, "Antireflectivity and diffuse scattering from rough surfaces". *IET CP*. 2024 (36), 1-5, (2025).
221. V. Gareyan, N. Margaryan, Zh. Gevorkian, "Modern Theoretical Approach for Description of Antireflectivity", *Physics of Particles and Nuclei*, 2025, 56 (6), 1439-1443, 0.1134/S1063779625700649, 1063-7796, 1531-8559.

222. A. Yu. Petrosyan “Study of Excitation Functions of Proton-Induced Reactions on Natural Tin Using Talys 1.96 and Empire 3.2 Codes” *Journal of Contemporary Physics (Armenian Academy of Sciences)*, 2025, Vol. 60, No. 1, pp. 8–15.
223. R. V. Avetisyan, A. G. Barseghyan, Yu. H. Gharibyan, H. A. Mkrtchyan*, A. Yu. Petrosyan & I. A. Kerobyan “Excitation function of proton-induced production of ^{160}Tb ”. *The European Physical Journal Plus*, 2025, 27, 140.
224. T.V. Kotanjyan et al., “Photodisintegration of Manganese with Formation of Scandium Radioisotopes at Maximum Bremsstrahlung Photons Energy of 40, 55 and 70 MeV”, *European Physical Journal A*. Volume 61, article number 95, (2025).
225. A.S. Hakobyan, L.R. Vahradyan, L.A. Poghosyan, T.V. Kotanjyan, H.H. Marukyan. «On the Divergence and Profile of the Beam of the LUE-75 Linear Electron Accelerator Operating at the AANL (YerPhi)», vol. 60, p. 121, (2025).
226. M. Krmar, R. Smolović, N. Jovančević, D. Maletić, Y. Teterev, S. Mitrofanov, K.D. Timoshenko, S.I. Alexeev, H. Marukyan, A. Hakobyan. «Some results of ^{209}Bi photoactivation experiment», *Eur. Phys. J. A*, vol. 61, p. 20, (2025).