

INFORMAȚII PERSONALE

Andrei-Alexandru Geantă

EXPERIENȚA PROFESIONALĂ

2021 - prezent

Asistent postdoctoral de Cercetare

Departamentul de Fizica Particulelor Elementare, Institutul Național de Fizică și Inginerie Nucleară – Horia Hulubei

- analiză de date
- simulări Monte Carlo

2017 - 2020

Asistent Cercetare Științifică

Departamentul de Fizica Particulelor Elementare, Institutul Național de Fizică și Inginerie Nucleară – Horia Hulubei

- analiză de date
- simulări Monte Carlo

2017

Inginer debutant

Departamentul de Fizica Particulelor Elementare, Institutul Național de Fizică și Inginerie Nucleară – Horia Hulubei

EDUCAȚIE ȘI FORMARE

2017 - 2020

Doctorat

Scrieți nivelul EQF, dacă îl cunoașteți

Școala doctorală de Fizică, Facultatea de Fizică, Universitatea București
Direcția: Fizică Teoretică

2015 - 2017

Master

Facultatea de Științe Aplicate, Universitatea Politehnica București
Programul de studii: Ingineria și Aplicațiile Laserilor și Acceleratorilor

2011 - 2015

Licență

Facultatea de Științe Aplicate, Universitatea Politehnica București
Specializare: Inginerie fizică

COMPETENTE PERSONALE

Limba(i) maternă(e)

română

Alte limbi străine cunoscute

engleză

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare conversație	la Discurs oral	
C1	C1	C1	C1	C1

Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
[Cadrul european comun de referință pentru limbi străine](#)

Competențe de comunicare

- competențe de comunicare dobândite prin participarea activă la întâlnirile interne ale colaborării ATLAS

Competențe digitale

AUTOEVALUARE

Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat
 Competențele digitale - Grilă de auto-evaluare

- Sisteme de operare: Linux, Windows
- Limbaje de programare: C++, Python, cunoștințe elementare de bash scripting
- Programe/pachete software: Pythia, Geant4, ROOT, Origin, Microsoft Office
- Cunoaștere de bază a sistemului GIT
- Bună cunoaștere a limbajului LaTeX

INFORMATII SUPLIMENTARE

Publicații

- 124 de articole publicate în cadrul colaborării ATLAS
<https://inspirehep.net/author/profile/A.A.Geanta.1>

Conferințe

- Participare cu poster la conferința internațională: „European Physical Society Conference on High Energy Physics”, Iulie 2019, Gent, Belgia.
 Titlul posterului „ Search for the strong pair production of squarks and gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector” -
<https://indico.cern.ch/event/577856/contributions/3422444/>
 Proceedings: <https://pos.sissa.it/364/602/pdf>

Distincții

- Diploma Marin Ivașcu pentru contribuții științifice remarcabile ale tinerilor cercetători în Fizica Nucleară Experimentală (Locul II), anul 2019

Cursuri

- Participare curs specializare: „Introduction to Accelerator Physics”, 02 Octombrie 2016 - 16 Octombrie 2016, Budapesta, Ungaria

Listă lucrări reprezentative

1. A.A.Geanta, ATLAS Collaboration, "Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.8, 691, DOI: 10.1140/epjc/s10052-020-8050-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000559326900004
2. A.A.Geanta, ATLAS Collaboration, "Search for squarks and gluinos in final states with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector", Trimisă spre publicare către: Eur.Phys.J. C, <https://arxiv.org/pdf/2101.01629.pdf>
3. A.A.Geanta, "Search for the strong pair production of squarks and gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector", Proceedings of Science (2019), PoS(EPS-HEP2019)602, ISSN: 1824-8039, Indexat: InspireHEP, Scopus. Lucrare prezentată în cadrul conferinței internaționale: The European Physical Society Conference on High Energy Physics (EPS-HEP), 2019, Ghent, Belgium

Lista completă de publicații

Andrei-Alexandru Geantă <https://inspirehep.net/author/profile/A.A.Geanta.1>

I. Teză de doctorat:

„Search for supersymmetry in the single-lepton final state and NCB studies in the ATLAS experiment at the LHC”, Domeniul: Fizică, Universitatea București, 2020, Conducător științific: CȘ1. Călin Alexa

II. Articole publicate (Ris):

1. ATLAS Collaboration, A.A.Geanta, ”Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 2104 (2021) 165, DOI: 10.1007/JHEP04(2021)165, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000642153100001
2. ATLAS Collaboration, A.A.Geanta, ”Search for new phenomena in final states with b -jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, JHEP 2105 (2021) 093, DOI: 10.1007/JHEP05(2021)093, ISSN: 1029-8480, Factor Impact: 5.875, AIS: 1.028, WOS: 000652225500001
3. ATLAS Collaboration, A.A.Geanta, ”Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 2104 (2021) 174, DOI: 10.1007/JHEP04(2021)174, ISSN: 1029-8481, Factor Impact: 5.875, AIS: 1.028, WOS: 000645244200001
4. ATLAS Collaboration, A.A.Geanta, ”Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell b\bar{b}$ and $\ell\ell W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur.Phys.J. C81 (2021) no.5, 396, DOI: 10.1140/epjc/s10052-021-09117-5, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153
5. ATLAS Collaboration, A.A.Geanta, ”Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 2102 (2021) 226, DOI: 10.1007/JHEP02(2021)226, ISSN: 1029-8481, Factor Impact: 5.875, AIS: 1.028, WOS: 000625548600001
6. ATLAS Collaboration, A.A.Geanta, ”Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”, JHEP 2102 (2021) 143, DOI: 10.1007/JHEP02(2021)143, ISSN: 1029-8481, Factor Impact: 5.875, AIS: 1.028, WOS: 000621845200001
7. ATLAS Collaboration, A.A.Geanta, ”Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector”, JHEP 2103 (2021) 268, DOI: 10.1007/JHEP03(2021)268, ISSN: 1029-8481, Factor Impact: 5.875, AIS: 1.028, WOS: 000638157200001
8. ATLAS Collaboration, A.A.Geanta, ”Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\mp}$ or ZZ in Fully Hadronic

Final States from $\sqrt{s} = 13\text{TeV}$ pp Collisions Recorded with the ATLAS Detector”, Phys.Rev.Lett. 126 (2021) no.12, 121802, DOI: 10.1103/PhysRevLett.126.121802, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000646119900006

9. ATLAS Collaboration, A.A.Geanta, ”Observation of photon-induced W^+W^- production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, Phys.Lett. B816 (2021) 136190, DOI: 10.1016/j.physletb.2021.136190, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000647421500033
10. ATLAS Collaboration, A.A.Geanta, ”Search for pair production of scalar leptons decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur.Phys.J. C81 (2021) no.4, 313, DOI: 10.1140/epjc/s10052-021-09009-8, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000639810800003
11. ATLAS Collaboration, A.A.Geanta, ”Search for phenomena beyond the Standard Model in events with large b -jet multiplicity using the ATLAS detector at the LHC”, Eur.Phys.J. C81 (2021) no.1, 11, DOI: 10.1140/epjc/s10052-020-08730-0, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000610446600001
12. ATLAS Collaboration, A.A.Geanta, ”Search for heavy resonances decaying into a pair of Z bosons in the $\ell^+\ell^-\ell'^+\ell'^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using 139 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur.Phys.J. C81 (2021) no.4, 332, DOI: 10.1140/epjc/s10052-021-09013-y, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000641660400003
13. ATLAS Collaboration, A.A.Geanta, ”Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS”, Phys.Rev.Lett. 125 (2020) no.26, 261801, DOI: 10.1103/PhysRevLett.125.261801, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000601155900004
14. ATLAS Collaboration, A.A.Geanta, ”Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions”, Eur.Phys.J. C81 (2021) no.4, 334, DOI: 10.1140/epjc/s10052-021-09054-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000641660400005
15. ATLAS Collaboration, A.A.Geanta, ”Medium-Induced Modification of Z -Tagged Charged Particle Yields in $Pb+Pb$ Collisions at 5.02 TeV with the ATLAS Detector”, Phys.Rev.Lett. 126 (2021) no.7, 072301, DOI: 10.1103/PhysRevLett.126.072301, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000620021300012
16. ATLAS Collaboration, A.A.Geanta, ”Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur.Phys.J. C81 (2021) no.3, 218, DOI: 10.1140/epjc/s10052-021-08929-9, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000626601800003
17. ATLAS Collaboration, A.A.Geanta, ”Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC”, JHEP 2010 (2020) 062, DOI: 10.1007/JHEP10(2020)062, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000583331700001
18. ATLAS Collaboration, A.A.Geanta, ”Search for heavy resonances decaying into a photon and a hadronically decaying Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV

with the ATLAS detector”, Phys.Rev.Lett. 125 (2020) 251802, DOI: 10.1103/PhysRevLett.125.251802, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000600286000006

19. ATLAS Collaboration, A.A.Geanta, ”Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb^{-1} of Pb+Pb data with the ATLAS detector”, JHEP 2103 (2021) 243, DOI: 10.1007/JHEP03(2021)243, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000634886800001
20. ATLAS Collaboration, A.A.Geanta, ”Measurement of the associated production of a Higgs boson decaying into b -quarks with a vector boson at high transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Phys.Lett. B816 (2021) 136204, DOI: 10.1016/j.physletb.2021.136204, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000647421500036
21. ATLAS Collaboration, A.A.Geanta, ”Evidence for $t\bar{t}\bar{t}$ production in the multilepton final state in protonproton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Eur.Phys.J. C80 (2020) no.11, 1085, DOI: 10.1140/epjc/s10052-020-08509-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000595710000001
22. ATLAS Collaboration, A.A.Geanta, ”Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS”, JHEP 2011 (2020) 163, DOI: 10.1007/JHEP11(2020)163, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000600146700001
23. ATLAS Collaboration, A.A.Geanta, ”Measurement of hadronic event shapes in high- p_T multijet final states at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, JHEP 2101 (2021) 188, DOI: 10.1007/JHEP01(2021)188, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000613473000001
24. ATLAS Collaboration, A.A.Geanta, ”Operation of the ATLAS trigger system in Run 2”, JINST 15 (2020) no.10, P10004, DOI: 10.1088/1748-0221/15/10/P10004, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000577278000004
25. ATLAS Collaboration, A.A.Geanta, ”A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector”, Phys.Lett. B812 (2021) 135980, DOI: 10.1016/j.physletb.2020.135980, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000608167600020
26. ATLAS Collaboration, A.A.Geanta, ”Alignment of the ATLAS Inner Detector in Run-2”, Eur.Phys.J. C80 (2020) no.12, 1194, DOI: 10.1140/epjc/s10052-020-08700-6, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000603037700005
27. ATLAS Collaboration, A.A.Geanta, ”Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $tW\gamma$ production in the $e\mu$ channel at 13 TeV with the ATLAS detector”, JHEP 2009 (2020) 049, DOI: 10.1007/JHEP09(2020)049, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000570902100005
28. ATLAS Collaboration, A.A.Geanta, ”Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, Phys.Rev. D102 (2020) no.11, 112008, DOI: 10.1103/PhysRevD.102.112008, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000599467700002

29. ATLAS Collaboration, A.A.Geanta, "Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at 13 TeV with the ATLAS detector", Eur.Phys.J. C81 (2021) no.2, 178, DOI: 10.1140/epjc/s10052-020-08677-2, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000623088700004
30. ATLAS Collaboration, A.A.Geanta, "Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in protonproton collisions at ATLAS", Eur.Phys.J. C81 (2021) no.2, 163, DOI: 10.1140/epjc/s10052-020-08734-w, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000620538400001
31. ATLAS Collaboration, A.A.Geanta, "Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS experiment", Phys.Lett. B810 (2020) 135797, DOI: 10.1016/j.physletb.2020.135797, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000582969900023
32. ATLAS Collaboration, A.A.Geanta, "Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector", JHEP 2011 (2020) 005, DOI: 10.1007/JHEP04(2021)142, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000642908800001
33. ATLAS Collaboration, A.A.Geanta, "Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector", JHEP 2101 (2021) 033, DOI: 10.1007/JHEP01(2021)033, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000607134800001
34. ATLAS Collaboration, A.A.Geanta, "Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.11, 1080, DOI: 10.1140/epjc/s10052-020-08469-8, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000595779800001
35. ATLAS Collaboration, A.A.Geanta, "Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector", JHEP 2010 (2020) 112, DOI: 10.1007/JHEP10(2020)112, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000581000700001
36. ATLAS Collaboration, A.A.Geanta, "Search for Higgs boson decays into two new low-mass spin-0 particles in the $4b$ channel with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV", Phys.Rev. D102 (2020) 112006, DOI: 10.1103/PhysRevD.102.112006, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000596369400003
37. ATLAS Collaboration, A.A.Geanta, "Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking", JHEP 2008 (2020) 080, DOI: 10.1007/JHEP08(2020)080, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000563641800001
38. ATLAS Collaboration, A.A.Geanta, "A search for the $Z\gamma$ decay mode of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B809 (2020) 135754, DOI: 10.1016/j.physletb.2020.135754, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000581871500054
39. ATLAS Collaboration, A.A.Geanta, "Search for $t\bar{t}$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 2010 (2020)

061, DOI: 10.1007/JHEP10(2020)061, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000579438800001

40. ATLAS Collaboration, A.A.Geanta, "Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger", JINST 15 (2020) no.11, P11016, DOI: 10.1088/1748-0221/15/11/P11016, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000595650800004
41. ATLAS Collaboration, A.A.Geanta, "Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV", JHEP 2008 (2020) no.08, 051, DOI: 10.1007/JHEP08(2020)051, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000562898300001
42. ATLAS Collaboration, A.A.Geanta, "Dijet resonance search with weak supervision using $\sqrt{s} = 13$ TeV pp collisions in the ATLAS detector", Phys.Rev.Lett. 125 (2020) no.13, 131801, DOI: 10.1103/PhysRevLett.125.131801, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000571399800004
43. ATLAS Collaboration, A.A.Geanta, "Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.12, 1165, DOI: 10.1140/epjc/s10052-020-08554-y, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000600230600004
44. ATLAS Collaboration, A.A.Geanta, "Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.8, 737, DOI: 10.1140/epjc/s10052-020-8102-8, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000639389400002
45. ATLAS Collaboration, A.A.Geanta, "Performance of the ATLAS muon triggers in Run 2", JINST 15 (2020) no.09, P09015, DOI: 10.1088/1748-0221/15/09/p09015, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000577273400015
46. ATLAS Collaboration, A.A.Geanta, "Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 2010 (2020) 005, DOI: 10.1007/JHEP10(2020)005, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000576978000001
47. ATLAS Collaboration, A.A.Geanta, " CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}H$ and tH Processes Using $H \rightarrow \gamma\gamma$ with the ATLAS Detector", Phys.Rev.Lett. 125 (2020) no.6, 061802, DOI: 10.1103/PhysRevLett.125.061802, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000555785600003
48. ATLAS Collaboration, A.A.Geanta, "Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV", Eur.Phys.J. C80 (2020) no.10, 942, DOI: 10.1140/epjc/s10052-020-8223-0, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000615187600004
49. ATLAS Collaboration, A.A.Geanta, "Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector", Phys.Rev.Lett. 124 (2020) no.22, 222002, DOI: 10.1103/PhysRevLett.124.222002, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000537620500004

50. ATLAS Collaboration, A.A.Geanta, "Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.10, 957, DOI: 10.1140/epjc/s10052-020-8227-9, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000586401900002
51. ATLAS Collaboration, A.A.Geanta, "Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector", Phys.Rev.Lett. 125 (2020) no.22, 221802, DOI: 10.1103/PhysRevLett.125.221802, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000592070700003
52. ATLAS Collaboration, A.A.Geanta, "Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Rev. D102 (2020) no.3, 032006, DOI: 10.1103/PhysRevD.102.032006, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000559739200002
53. ATLAS Collaboration, A.A.Geanta, "Measurements of the production cross-section for a Z boson in association with b -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 2007 (2020) 044, DOI: 10.1007/JHEP07(2020)044, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000566576600001
54. ATLAS Collaboration, A.A.Geanta, "Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector", Phys.Lett. B807 (2020) 135595, DOI: 10.1016/j.physletb.2020.135595, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000571765700063
55. ATLAS Collaboration, A.A.Geanta, "Search for heavy Higgs bosons decaying into two tau leptons with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV", Phys.Rev.Lett. 125 (2020) no.5, 051801, DOI: 10.1103/PhysRevLett.125.051801, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000552610300004
56. ATLAS Collaboration, A.A.Geanta, "Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector", JHEP 2006 (2020) 151, DOI: 10.1007/JHEP06(2020)151, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000545715400001
57. ATLAS Collaboration, A.A.Geanta, "Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 2007 (2020) 124, DOI: 10.1007/JHEP07(2020)124, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000565307900001
58. ATLAS Collaboration, A.A.Geanta, "Test of CP invariance in vector-boson fusion production of the Higgs boson in the $H \rightarrow \tau\tau$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B805 (2020) 135426, DOI: 10.1016/j.physletb.2020.135426, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000541379800022
59. ATLAS Collaboration, A.A.Geanta, "Measurement of the CP -violating phase ϕ_s in $B_s^0 \rightarrow J/\psi\phi$ decays in ATLAS at 13 TeV", Eur.Phys.J. C81 (2021) no.4, 342, DOI: 10.1140/epjc/s10052-021-09011-0, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000643913400004
60. ATLAS Collaboration, A.A.Geanta, "Search for the $HH \rightarrow b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the

- ATLAS detector”, JHEP 2007 (2020) 108, DOI: 10.1007/JHEP07(2020)108, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000568562900001
61. ATLAS Collaboration, A.A.Geanta, ”Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}} = 5.44\text{TeV}$ with the ATLAS Detector”, Phys.Rev.Lett. 126 (2021) no.12, 122301, DOI: 10.1103/PhysRevLett.126.122301, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000651646900004
 62. ATLAS Collaboration, A.A.Geanta, ”Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector”, JHEP 2003 (2020) 179, DOI: 10.1007/JHEP03(2020)179, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000524515700001
 63. ATLAS Collaboration, A.A.Geanta, ”Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s} = 13\text{ TeV}$ ”, Phys.Rev. D101 (2020) no.5, 052007, DOI: 10.1103/PhysRevD.101.052007, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000519886300002
 64. ATLAS Collaboration, A.A.Geanta, ”Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector”, Phys.Rev. D101 (2020) no.7, 072001, DOI: 10.1103/PhysRevD.101.072001, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000524321800002
 65. ATLAS Collaboration, A.A.Geanta, ”Measurement of the transverse momentum distribution of DrellYan lepton pairs in protonproton collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector”, Eur.Phys.J. C80 (2020) no.7, 616, DOI: 10.1140/epjc/s10052-020-8001-z, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000568561400003
 66. ATLAS Collaboration, A.A.Geanta, ”Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector”, Phys.Rev. D101 (2020) no.5, 052005, DOI: 10.1103/PhysRevD.101.052005, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000518956500001
 67. ATLAS Collaboration, A.A.Geanta, ”Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13\text{ TeV}$ decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer”, Phys.Rev. D101 (2020) no.5, 052013, DOI: 10.1103/PhysRevD.101.052013, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000522163200001
 68. ATLAS Collaboration, A.A.Geanta, ”Search for direct stau production in events with two hadronic τ -leptons in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector”, Phys.Rev. D101 (2020) no.3, 032009, DOI: 10.1103/PhysRevD.101.032009, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000517252200003
 69. ATLAS Collaboration, A.A.Geanta, ”Measurement of the $Z(\rightarrow \ell^+\ell^-)\gamma$ production cross-section in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector”, JHEP 2003 (2020) 054, DOI: 10.1007/JHEP03(2020)054, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000519163600001
 70. ATLAS Collaboration, A.A.Geanta, ”Measurement of the azimuthal anisotropy of charged-particle production in $Xe + Xe$ collisions at $\sqrt{s_{NN}} = 5.44\text{ TeV}$ with the ATLAS detector”, Phys.Rev. C101 (2020) no.2, 024906, DOI: 10.1103/PhysRevC.101.024906, ISSN: 2469-9993, Factor Impact: 2.988, AIS: 0.647, WOS: 000513213800003

71. ATLAS Collaboration, A.A.Geanta, "ATLAS data quality operations and performance for 20152018 data-taking", JINST 15 (2020) no.04, P04003, DOI: 10.1088/1748-0221/15/04/P04003, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000534740000003
72. ATLAS Collaboration, A.A.Geanta, "Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer", JHEP 2002 (2020) 042, DOI: 10.1007/JHEP02(2020)042, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000515812400002
73. ATLAS Collaboration, A.A.Geanta, "Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{NN}} = 8.16$ TeV p +Pb collisions with the ATLAS detector", Eur.Phys.J. C80 (2020) no.1, 73, DOI: 10.1140/epjc/s10052-020-7624-4, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000513720900001
74. ATLAS Collaboration, A.A.Geanta, " Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the ATLAS experiment", Phys.Lett. B802 (2020) 135262, DOI: 10.1016/j.physletb.2020.135262, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000515091400074
75. ATLAS Collaboration, A.A.Geanta, "Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B803 (2020) 135341, DOI: 10.1016/j.physletb.2020.135341, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000521730300023
76. ATLAS Collaboration, A.A.Geanta, "Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.6, 528, DOI: 10.1140/epjc/s10052-020-7907-9, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000546998500003
77. ATLAS Collaboration, A.A.Geanta, "Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 2003 (2020) 145, DOI: 10.1007/JHEP03(2020)145, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000524489600001
78. ATLAS Collaboration, A.A.Geanta, "Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C80 (2020) no.8, 691, DOI: 10.1140/epjc/s10052-020-8050-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000559326900004
79. ATLAS Collaboration, A.A.Geanta, "Search for the Higgs boson decays $H \rightarrow ee$ and $H \rightarrow e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B801 (2020) 135148, DOI: 10.1016/j.physletb.2019.135148, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000508018500038
80. ATLAS Collaboration, A.A.Geanta, "Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector", JHEP 2006 (2020) 046, DOI: 10.1007/JHEP06(2020)046, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000546988300001
81. ATLAS Collaboration, A.A.Geanta, "Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$

TeV collected with the ATLAS experiment”, Phys.Rev. D101 (2020) no.1, 012002, DOI: 10.1103/PhysRevD.101.012002, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000505485600001

82. ATLAS Collaboration, A.A.Geanta, ”Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Phys.Rev.Lett. 124 (2020) no.8, 082301, DOI: 10.1103/PhysRevLett.124.082301, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000517288800010
83. ATLAS Collaboration, A.A.Geanta, ”Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector”, Eur.Phys.J. C80 (2020) no.5, 450, DOI: 10.1140/epjc/s10052-020-7997-4, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000546996400002
84. ATLAS Collaboration, A.A.Geanta, ”Performance of electron and photon triggers in ATLAS during LHC Run 2”, Eur.Phys.J. C80 (2020) no.1, 47, DOI: 10.1140/epjc/s10052-019-7500-2, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000519817900001
85. ATLAS Collaboration, A.A.Geanta, ”Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment”, Phys.Lett. B800 (2020) 135082, DOI: 10.1016/j.physletb.2019.135082, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000503832500051
86. ATLAS Collaboration, A.A.Geanta, ”Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector”, Eur.Phys.J. C80 (2020) no.2, 123, DOI: 10.1140/epjc/s10052-019-7594-6, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000515792500002
87. ATLAS Collaboration, A.A.Geanta, ”Measurements of top-quark pair differential and double-differential cross-sections in the ℓ +jets channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, Eur.Phys.J. C79 (2019) no.12, 1028, DOI: 10.1140/epjc/s10052-020-08541-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000595779500002
88. ATLAS Collaboration, A.A.Geanta, ”Search for non-resonant Higgs boson pair production in the $bbl\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV”, Phys.Lett. B801 (2020) 135145, DOI: 10.1016/j.physletb.2019.135145, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000508018500037
89. ATLAS Collaboration, A.A.Geanta, ”Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, Phys.Rev. C100 (2019) no.6, 064901, DOI: 10.1103/PhysRevC.100.064901, ISSN: 2469-9993, Factor Impact: 2.988, AIS: 0.647, WOS: 000499977600003
90. ATLAS Collaboration, A.A.Geanta, ”Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b -jets and missing transverse momentum”, JHEP 1912 (2019) 060, DOI: 10.1007/JHEP12(2019)060, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000521214700001

91. ATLAS Collaboration, A.A.Geanta, "Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb^{-1} of ATLAS data", JHEP 1910 (2019) 203, DOI: 10.1007/JHEP10(2019)203, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000495862600001
92. ATLAS Collaboration, A.A.Geanta, "Electron and photon performance measurements with the ATLAS detector using the 20152017 LHC proton-proton collision data", JINST 14 (2019) no.12, P12006, DOI: 10.1088/1748-0221/14/12/P12006, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000510149300006
93. ATLAS Collaboration, A.A.Geanta, "Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector", Eur.Phys.J. C79 (2019) no.12, 1017, DOI: 10.1140/epjc/s10052-019-7512-y, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000505553100012
94. ATLAS Collaboration, A.A.Geanta, "Measurement of W^\pm boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector", Eur.Phys.J. C79 (2019) no.11, 935, DOI: 10.1140/epjc/s10052-019-7439-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000505550100001
95. ATLAS Collaboration, A.A.Geanta, "Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B801 (2020) 135114, DOI: 10.1016/j.physletb.2019.135114, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000508018500036
96. ATLAS Collaboration, A.A.Geanta, "Measurement of the jet mass in high transverse momentum $Z(\rightarrow b\bar{b})\gamma$ production at $\sqrt{s} = 13$ TeV using the ATLAS detector", Phys.Lett. B812 (2021) 135991, DOI: 10.1016/j.physletb.2020.135991, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000608167600013
97. ATLAS Collaboration, A.A.Geanta, "Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector", Eur.Phys.J. C79 (2019) no.10, 847, DOI: 10.1140/epjc/s10052-019-7321-3, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000490170700003
98. ATLAS Collaboration, A.A.Geanta, "Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector", Phys.Lett. B800 (2020) 135069, DOI: 10.1016/j.physletb.2019.135069, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000503832500048
99. ATLAS Collaboration, A.A.Geanta, "Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector", Eur.Phys.J. C79 (2019) no.12, 985, DOI: 10.1140/epjc/s10052-019-7489-6, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000505552500002
100. ATLAS Collaboration, A.A.Geanta, "ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV", Eur.Phys.J. C79 (2019) no.11, 970, DOI: 10.1140/epjc/s10052-019-7450-8, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000505550300004
101. ATLAS Collaboration, A.A.Geanta, "Measurement of W^\pm -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector",

- Eur.Phys.J. C79 (2019) no.11, 901, DOI: 10.1140/epjc/s10052-019-7399-7, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000495631400001
102. ATLAS Collaboration, A.A.Geanta, "Search for heavy neutral Higgs bosons produced in association with b -quarks and decaying into b -quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Rev. D102 (2020) no.3, 032004, DOI: 10.1103/PhysRevD.102.032004, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000558968400001
 103. ATLAS Collaboration, A.A.Geanta, "Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2", JINST 14 (2019) no.09, P09011, DOI: 10.1088/1748-0221/14/09/P09011, ISSN: 1748-0221, Factor Impact: 1.454, AIS: 0.412, WOS: 000486990000011
 104. ATLAS Collaboration, A.A.Geanta, "Identification of boosted Higgs bosons decaying into b -quark pairs with the ATLAS detector at 13 TeV", Eur.Phys.J. C79 (2019) no.10, 836, DOI: 10.1140/epjc/s10052-019-7335-x, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000490454500014
 105. ATLAS Collaboration, A.A.Geanta, "Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV", Phys.Rev. D100 (2019) no.5, 052011, DOI: 10.1103/PhysRevD.100.052011, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000486645100003
 106. ATLAS Collaboration, A.A.Geanta, "Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", JHEP 1909 (2019) 091, DOI: 10.1007/JHEP06(2020)042, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000615260500001
 107. ATLAS Collaboration, A.A.Geanta, "Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Rev. D100 (2019) no.5, 052013, DOI: 10.1103/PhysRevD.100.052013, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000487729700002
 108. ATLAS Collaboration, A.A.Geanta, "Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Phys.Lett. B800 (2020) 135103, DOI: 10.1016/j.physletb.2019.135103, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000503832500009
 109. ATLAS Collaboration, A.A.Geanta, "Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector", Phys.Rev.Lett. 124 (2020) no.3, 031802, DOI: 10.1103/PhysRevLett.124.031802, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000509506300003
 110. ATLAS Collaboration, A.A.Geanta, "Measurement of distributions sensitive to the underlying event in inclusive Z -boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", Eur.Phys.J. C79 (2019) no.8, 666, DOI: 10.1140/epjc/s10052-019-7162-0, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000480484000003
 111. ATLAS Collaboration, A.A.Geanta, "Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures

- with the ATLAS detector”, JHEP 1910 (2019) 265, DOI: 10.1007/JHEP10(2019)265, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000520036900001
112. ATLAS Collaboration, A.A.Geanta, ”Search for the electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Phys.Rev. D100 (2019) no.3, 032007, DOI: 10.1103/PhysRevD.100.032007, ISSN: 2470-0029, Factor Impact: 4.833, AIS: 0.955, WOS: 000482214300001
 113. ATLAS Collaboration, A.A.Geanta, ”Measurement of ZZ production in the $\ell\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV”, JHEP 1910 (2019) 127, DOI: 10.1007/JHEP10(2019)127, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000509341600004
 114. ATLAS Collaboration, A.A.Geanta, ”Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Eur.Phys.J. C79 (2019) no.10, 884, DOI: 10.1140/epjc/s10052-019-7371-6, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000499627500003
 115. ATLAS Collaboration, A.A.Geanta, ”Measurement of the top-quark mass in $t\bar{t}+1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV”, JHEP 1911 (2019) 150, DOI: 10.1007/JHEP11(2019)150, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000514894800001
 116. ATLAS Collaboration, A.A.Geanta, ”Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV”, Phys.Lett. B798 (2019) 134942, DOI: 10.1016/j.physletb.2019.134942, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000494939000013
 117. ATLAS Collaboration, A.A.Geanta, ”Measurement of the cross-section and charge asymmetry of W bosons produced in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, Eur.Phys.J. C79 (2019) no.9, 760, DOI: 10.1140/epjc/s10052-019-7199-0, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000485982300003
 118. ATLAS Collaboration, A.A.Geanta, ”Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, JHEP 2001 (2020) 051, DOI: 10.1007/JHEP01(2020)051, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000511969100001
 119. ATLAS Collaboration, A.A.Geanta, ”Observation of light-by-light scattering in ultraperipheral Pb+Pb collisions with the ATLAS detector”, Phys.Rev.Lett. 123 (2019) no.5, 052001, DOI: 10.1103/PhysRevLett.123.052001, ISSN: 1079-7114, Factor Impact: 8.385, AIS: 3.151, WOS: 000479003100006
 120. ATLAS Collaboration, A.A.Geanta, ”Evidence for the production of three massive vector bosons with the ATLAS detector”, Phys.Lett. B798 (2019) 134913, DOI: 10.1016/j.physletb.2019.134913, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000494939000011
 121. ATLAS Collaboration, A.A.Geanta, ”Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \rightarrow \ell\nu\ell\nu$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Phys.Lett. B798 (2019) 134949, DOI: 10.1016/j.physletb.2019.134949, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000494939000016

122. ATLAS Collaboration, A.A.Geanta, "Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector", *Eur.Phys.J. C* 80 (2020) no.8, 754, DOI: 10.1140/epjc/s10052-020-8181-6, ISSN: 1434-6052, Factor Impact: 4.389, AIS: 1.153, WOS: 000565271700001
123. ATLAS Collaboration, A.A.Geanta, "Search for high-mass dilepton resonances using 139 fb^{-1} of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector", *Phys.Lett. B* 796 (2019) 68-87, DOI: 10.1016/j.physletb.2019.07.016, ISSN: 0370-2693, Factor Impact: 4.384, AIS: 1.112, WOS: 000483426200013
124. ATLAS Collaboration, A.A.Geanta, "Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", *JHEP* 1908 (2019) 033, DOI: 10.1007/JHEP08(2019)033, ISSN: 1029-8479, Factor Impact: 5.875, AIS: 1.028, WOS: 000480466200001

III. Conferințe internaționale (Vis):

1. A.A.Geanta, "Search for the strong pair production of squarks and gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector", *Proceedings of Science* (2019), [PoS\(EPS-HEP2019\)602](#), ISSN: 1824-8039, Indexat: InspireHEP, Scopus. Lucrare prezentată în cadrul conferinței internaționale: The European Physical Society Conference on High Energy Physics (EPS-HEP), 2019, Ghent, Belgium