

Curriculum vitae

PERSONAL INFORMATION

Gabriele Gaetano Fronzé



📍 176, Via Santuario 176, 12012 Boves (CN) (Italy)

☎ (+39) 3397039676

✉ gfronze@cern.ch

💬 Skype gabriele.fronze@gmail.com

Sex Male | Date of birth 8 Oct 1991 | Nationality Italian

CURRENT POSITION

Oct 2015–Present PhD Fellowship in Physics and Astrophysics EQF level 8
Università degli Studi di Torino, Torino (Italy)

Oct 2015–Present PhD Fellowship in Physics and Astrophysics EQF level 8
IMT - Atlantique, Nantes (France)

Memberships

- INFN member since 2015
- CERN user since 2015

EDUCATION

Sep 2005–Jul 2010 Scientific High School Diploma EQF level 4
Liceo Scientifico Statale G. Peano, Cuneo (Italy)

Oct 2010–Oct 2013 Bachelor's Degree in Physics EQF level 6
Università degli Studi di Torino, Torino (Italy)

Oct 2013–Oct 2015 Master's Degree in Nuclear, Subnuclear and Biomedical Physics 110/110L EQF level 7
Università degli Studi di Torino, Torino (Italy)

ACADEMIC CAREER

Bachelor's degree Thesis Characterization of the BARI Front End Electronics for the ALICE Muon Trigger

- Measurements of efficiency curves, cluster sizes and working points for amplified FE-equipped Resistive Plate Chambers detectors;
- Setup of the test bench in INFN Laboratory in Torino
- Study of the dependence of the cluster size with respect to the HV value
- Study of the dependence of the efficiency curve with respect to the applied signal threshold

Master's degree Thesis Optimization of the muon identification algorithm for the ALICE Muon Trigger

- Identification of the algorithm part causing a drop of muon identification efficiency in the most central Pb-Pb collisions

- Development of a new method which can reduce the performance drop by being able to resolve multiple muons crossing the same Local Board of the Muon Trigger System
- Study of the performances of the old and the new method with both pp and Pb-Pb real data using GRID tasks
- Study of the correct identification efficiency and misidentification rate using pp and Pb-Pb MC production both in centrality and p_T classes

PhD ongoing work

Ongoing PhD program:

- Study of the performances of the ALICE Muon Trigger system in the activity period 2010-2016 and evaluation of the ageing parameters for the detector segments
- Part of the paper committee for the study of Υ production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ in the $\mu^+\mu^-$ channel at forward rapidity:
 - Computation of the reference pp cross-section using interpolated LHC-b data
 - Evaluation of the Muon Trigger systematics using custom MC simulations and real data with GRID-executed tasks
 - Active role in the writing and review process of the paper, currently undergoing IRC review
- Actively involved in the development of the new O² infrastructure for the Muon Trigger system:
 - Code optimization and porting of existing code
 - Programming “devices” for the processing of detector data:
 - Creation of an algorithm capable of online noisy-channel detection
 - Creation of an algorithm able to mask online noisy channels before injection in the reconstruction framework
 - Active part of the data format development team
 - Involved in the development of DQM And DAQ tool for data acquisition and data quality monitoring
- Developer of a framework capable of automatic and efficient download of Muon Trigger DCS data from OCDB and AMANDA channels:
 - Automatic and copy-less download and compression mechanisms
 - Committed code with standard routines and methods for standard operations and analysis aimed at reducing bug derived entropy in different analysers’ results
 - Definition of a compressed data format for faster and simpler data sharing and exchange
 - Definition of a TTree-based custom vector with out-of-RAM buffering
 - Definition of a markdown-based file format to describe which kind of plots the automatic routine should generate and the plots’ characteristics
 - Future development aimed at porting this DCS analysis code as a standard for all the ALICE detectors and systems

TEACHING ACTIVITIES

- Added supervisor for the course "Tecniche Informatiche per la Fisica" (Introduction to Wolfram Mathematica) of the Bachelor's degree in Physics of the University of Turin (IT), 2013/2014
- Exercise tutor for the course "Electricity and Magnetism" of the Bachelor's degree in Physics of the University of Turin (IT), 2014/2015
- Exercise teacher for the "Physics" course for the Bachelor's degree in Informatics of the University of Turin (IT), 2015/2016
- Exercise tutor for the course "Electromagnetism and Optics" of the Bachelor's degree in Physics of the University of Turin (IT), 2016/2017
- Teacher of the course "Introduction to Physics" of the Bachelor's degree in Biology of the University of Turin (IT), 2017/2018

CONFERENCES

- XIII Workshop on Resistive Plate Chambers and related detectors 22-26 February 2016, Ghent (B), [link](#), presenter of the talk "Performance of the ALICE muon trigger system in pp and Pb-Pb collisions at the LHC" and relative proceeding published on JINST
- 8th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions 23-27 September 2016, Wuhan (CN), [link](#), presenter of the talk "Y production in p-Pb and Pb-Pb collisions with ALICE at the LHC" and relative proceeding to be published
- Congresso Nazionale SIF 26-30 September 2016, Padova (IT), [link](#), presenter of the talk "Studio della produzione del quarkonio nella regione di elevata rapidità con l'esperimento ALICE ad LHC"
- Incontri sulla Fisica delle Alte Energie 19-21 April 2017, [link](#), presenter of the talk "Studio della produzione del quarkonio in collisioni p-Pb e Pb-Pb con l'esperimento ALICE al LHC" and relative proceeding to be published on Il Nuovo Cimento C - Colloquia on Physics
- Journée de l'École Doctorale IMT Atlantique 30 June 2017, Angers (F), [link](#), presenter of the talk "Production de quarkonium en collisions ultra-relativistes de noyaux lourdes avec ALICE a LHC"
- Rencontres QGP France 9-12 October, Etretat (F), [link](#), presenter of the talks "Production de quarkonium en collisions ultra-relativistes de noyaux lourdes avec ALICE a LHC" and "O² et O²-MUON"

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B2	B2	C1
French	C1	C2	B1	B1	C1
German	A1	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- Deep knowledge of CPU, GPU, RAM and in general IT technologies and great computer fixing capabilities
- Excellent know-how for computer building for simple and complex machines
- Excellent knowledge of VirtualBox, Parallels, and VMWare Player virtualization software
- Profound knowledge of ESXi, UnRAID and Proxmox virtualization operating systems
- Excellent knowledge of the Microsoft Windows OS family from win95 to Windows 10
- Good knowledge of the Linux operating systems in the Ubuntu, Fedora, Debian and Mint distributions mainly
- Great knowledge of Unix commands and architecture
- Excellent knowledge of the Mac OS X operating system
- Excellent knowledge of the Microsoft Office suite for both Windows and Mac OS X
- Deep knowledge of AutoDesk AutCAD software for 2D use
- Basic knowledge of AutoDesk AutCAD software for 3D use
- Excellent knowledge of Adobe Photoshop CS5 and following raw image processing tools
- Profound knowledge of Visual Studio and CLion IDEs
- Great Java programming skills
- Excellent C++ programming skills
- Expert in OpenMP and MPI parallel programming interfaces
- Expert in software optimisation for time and energy efficiency

PUBLICATIONS

1) Production of deuterons, tritons, ^3He nuclei and their anti-nuclei in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.08522 [nucl-ex].

2) Search for collectivity with azimuthal J/ψ -hadron correlations in high multiplicity p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ and 8.16 TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.06807 [nucl-ex].

3) J/ψ elliptic flow in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02\text{ TeV}$
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.05260 [nucl-ex].

4) Constraining the magnitude of the Chiral Magnetic Effect with Event Shape Engineering in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76\text{ TeV}$
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.04723 [nucl-ex].

- 5) The ALICE Transition Radiation Detector: construction, operation, and performance
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.02743 [physics.ins-det].
- 6) Kaon femtoscopy in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.01731 [nucl-ex].
- 7) Systematic studies of correlations between different order flow harmonics in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1709.01127 [nucl-ex].
- 8) π^0 and η meson production in proton-proton collisions at $\sqrt{s} = 8$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1708.08745 [hep-ex].
- 9) Charged-particle multiplicity distributions over a wide pseudorapidity range in proton-proton collisions at $\sqrt{s} = 0.9, 7$ and 8 TeV
By ALICE Collaboration (S. Acharya et al.).
arXiv:1708.01435 [hep-ex].
- 10) Measurement of deuteron spectra and elliptic flow in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV at the LHC
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1707.07304 [nucl-ex].
10.1140/epjc/s10052-017-5222-x.
Eur.Phys.J. C77 (2017) no.10, 658.
- 11) Searches for transverse momentum dependent flow vector fluctuations in Pb-Pb and p-Pb collisions at the LHC
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1707.05690 [nucl-ex].
10.1007/JHEP09(2017)032.
JHEP 1709 (2017) 032.
- 12) D-meson azimuthal anisotropy in mid-central Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1707.01005 [nucl-ex].
- 13) Measuring K_S^0 interactions using Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1705.04929 [nucl-ex].
10.1016/j.physletb.2017.09.009.
Phys.Lett. B774 (2017) 64-77.
- 14) Linear and non-linear flow modes in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV
By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1705.04377 [nucl-ex].
10.1016/j.physletb.2017.07.060.
Phys.Lett. B773 (2017) 68-80.
- 15) J/ψ production as a function of charged-particle pseudorapidity density in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV

By ALICE Collaboration (Dagmar Adamova et al.).
arXiv:1704.00274 [nucl-ex].

16) Flow dominance and factorization of transverse momentum correlations in Pb-Pb collisions at the LHC

By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1702.02665 [nucl-ex].
10.1103/PhysRevLett.118.162302.
Phys.Rev.Lett. 118 (2017) no.16, 162302.

17) Azimuthally differential pion femtoscopy in Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV

By ALICE Collaboration (Dagmar Adamova et al.).
arXiv:1702.01612 [nucl-ex].
10.1103/PhysRevLett.118.222301.
Phys.Rev.Lett. 118 (2017) no.22, 222301.

18) Production of muons from heavy-flavour hadron decays in p-Pb collisions at $\sqrt{s_{\rm NN}}=5.02$ TeV

By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1702.01479 [nucl-ex].
10.1016/j.physletb.2017.03.049.
Phys.Lett. B770 (2017) 459-472.

19) Production of π^0 and η mesons up to high transverse momentum in pp collisions at 2.76 TeV

By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1702.00917 [hep-ex].
10.1140/epjc/s10052-017-5144-7, 10.1140/epjc/s10052-017-4890-x.
Eur.Phys.J. C77 (2017) no.5, 339, Erratum: Eur.Phys.J. C77 (2017) no.9, 586.

20) First measurement of jet mass in Pb-Pb and p-Pb collisions at the LHC

By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1702.00804 [nucl-ex].

21) Measurement of D-meson production at mid-rapidity in pp collisions at $\sqrt{s}=7$ TeV

By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1702.00766 [hep-ex].
10.1140/epjc/s10052-017-5090-4.
Eur.Phys.J. C77 (2017) no.8, 550.

22) Energy dependence of forward-rapidity J/ψ and $\psi(2S)$ production in pp collisions at the LHC

By ALICE Collaboration (Shreyasi Acharya et al.).
arXiv:1702.00557 [hep-ex].
10.1140/epjc/s10052-017-4940-4.
Eur.Phys.J. C77 (2017) no.6, 392.

23) $K^*(892)^0$ and $\phi(1020)$ meson production at high transverse momentum in pp and Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1702.00555 [nucl-ex].
10.1103/PhysRevC.95.064606.
Phys.Rev. C95 (2017) no.6, 064606.

24) Production of $\Sigma(1385)^{\pm}$ and $\Xi(1530)^0$ in p-Pb collisions at $\sqrt{s_{\rm NN}}=5.02$ TeV

By ALICE Collaboration (Dagmar Adamova et al.).
arXiv:1701.07797 [nucl-ex].
10.1140/epjc/s10052-017-4943-1.
Eur.Phys.J. C77 (2017) no.6, 389.

25) Insight into particle production mechanisms via angular correlations of identified particles in pp collisions at $\sqrt{s}=7$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1612.08975 [nucl-ex].
10.1140/epjc/s10052-017-5129-6.
Eur.Phys.J. C77 (2017) no.8, 569.

26) Centrality dependence of the pseudorapidity density distribution for charged particles in Pb-Pb collisions at $\sqrt{s_{\rm NN}}=5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1612.08966 [nucl-ex].
10.1016/j.physletb.2017.07.017.
Phys.Lett. B772 (2017) 567-577.

27) Υ production in p-Pb and Pb-Pb collisions with ALICE at the LHC
By ALICE Collaboration (Gabriele Gaetano Fronz  for the collaboration).
arXiv:1612.06691 [hep-ex].

28) W and Z boson production in p-Pb collisions at $\sqrt{s_{\rm NN}}=5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1611.03002 [nucl-ex].
10.1007/JHEP02(2017)077.
JHEP 1702 (2017) 077.

29) Determination of the event collision time with the ALICE detector at the LHC
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1610.03055 [physics.ins-det].
10.1140/epjp/i2017-11279-1.
Eur.Phys.J.Plus 132 (2017) no.2, 99.

30) Measurement of the production of high- $p_{\rm T}$ electrons from heavy-flavour hadron decays in Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1609.07104 [nucl-ex].
10.1016/j.physletb.2017.05.060.
Phys.Lett. B771 (2017) 467-481.

31) Evolution of the longitudinal and azimuthal structure of the near-side jet peak in Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1609.06667 [nucl-ex].
10.1103/PhysRevC.96.034904.
Phys.Rev. C96 (2017) no.3, 034904.

32) Anomalous evolution of the near-side jet peak shape in Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1609.06643 [nucl-ex].
10.1103/PhysRevLett.119.102301.
Phys.Rev.Lett. 119 (2017) no.10, 102301.

33) Measurement of electrons from beauty-hadron decays in p-Pb collisions at $\sqrt{s_{\rm NN}}=5.02$ TeV and Pb-Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV

$\sqrt{s_{\mathrm{NN}}}=2.76$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1609.03898 [nucl-ex].

10.1007/JHEP07(2017)052.

JHEP 1707 (2017) 052.

34) Jet-like correlations with neutral pion triggers in pp and central Pb–Pb collisions at 2.76 TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1608.07201 [nucl-ex].

10.1016/j.physletb.2016.10.048.

Phys.Lett. B763 (2016) 238-250.

35) J/ ψ suppression at forward rapidity in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1606.08197 [nucl-ex].

10.1016/j.physletb.2016.12.064.

Phys.Lett. B766 (2017) 212-224.

36) Enhanced production of multi-strange hadrons in high-multiplicity proton-proton collisions

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1606.07424 [nucl-ex].

10.1038/nphys4111.

Nature Phys. 13 (2017) 535-539.

37) Higher harmonic flow coefficients of identified hadrons in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1606.06057 [nucl-ex].

10.1007/JHEP09(2016)164.

JHEP 1609 (2016) 164.

38) Elliptic flow of electrons from heavy-flavour hadron decays at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1606.00321 [nucl-ex].

10.1007/JHEP09(2016)028.

JHEP 1609 (2016) 028.

39) D -meson production in pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV and in pp collisions at $\sqrt{s}=7$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1605.07569 [nucl-ex].

10.1103/PhysRevC.94.054908.

Phys.Rev. C94 (2016) no.5, 054908.

40) Measurement of azimuthal correlations of D mesons and charged particles in pp collisions at $\sqrt{s}=7$ TeV and p-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).

arXiv:1605.06963 [nucl-ex].

10.1140/epjc/s10052-017-4779-8.

Eur.Phys.J. C77 (2017) no.4, 245.

41) Performance of the ALICE muon trigger system in pp and Pb-Pb collisions at the LHC

By Gabriele Gaetano Fronzè.

arXiv:1605.03461 [physics.ins-det].

10.1088/1748-0221/11/06/C06003.
JINST 11 (2016) no.06, C06003.

42) Pseudorapidity dependence of the anisotropic flow of charged particles in Pb-Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1605.02035 [nucl-ex].
10.1016/j.physletb.2016.07.017.
Phys.Lett. B762 (2016) 376-388.

43) Correlated event-by-event fluctuations of flow harmonics in Pb-Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1604.07663 [nucl-ex].
10.1103/PhysRevLett.117.182301.
Phys.Rev.Lett. 117 (2016) 182301.

44) Measurement of transverse energy at midrapidity in Pb-Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1603.04775 [nucl-ex].
10.1103/PhysRevC.94.034903.
Phys.Rev. C94 (2016) no.3, 034903.

45) Centrality dependence of charged jet production in p-Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1603.03402 [nucl-ex].
10.1140/epjc/s10052-016-4107-8.
Eur.Phys.J. C76 (2016) no.5, 271.

46) Centrality dependence of $\mathbf{\psi}(2S)$ suppression in p-Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1603.02816 [nucl-ex].
10.1007/JHEP06(2016)050.
JHEP 1606 (2016) 050.

47) Measurement of D-meson production versus multiplicity in p-Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV
By ALICE Collaboration (J. Adam et al.).
arXiv:1602.07240 [nucl-ex].
10.1007/JHEP08(2016)078.
JHEP 1608 (2016) 078.

48) INFN What Next : Ultra-relativistic Heavy-Ion Collisions
By A. Dainese et al..
arXiv:1602.04120 [nucl-ex].
Frascati Phys.Ser. 62 (2016).

49) Particle identification in ALICE: a Bayesian approach
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1602.01392 [physics.data-an].
10.1140/epjp/i2016-16168-5.
Eur.Phys.J.Plus 131 (2016) no.5, 168.

50) Anisotropic flow of charged particles in Pb-Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV

By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1602.01119 [nucl-ex].
10.1103/PhysRevLett.116.132302.
Phys.Rev.Lett. 116 (2016) no.13, 132302.

51) Production of K^* (892) 0 and ϕ (1020) in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1601.07868 [nucl-ex].
10.1140/epjc/s10052-016-4088-7.
Eur.Phys.J. C76 (2016) no.5, 245.

52) Multiplicity dependence of charged pion, kaon, and (anti)proton production at large transverse momentum in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1601.03658 [nucl-ex].
10.1016/j.physletb.2016.07.050.
Phys.Lett. B760 (2016) 720-735.

53) Multipion Bose-Einstein correlations in pp, p-Pb, and Pb-Pb collisions at energies available at the CERN Large Hadron Collider
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1512.08902 [nucl-ex].
10.1103/PhysRevC.93.054908.
Phys.Rev. C93 (2016) no.5, 054908.

54) Multi-strange baryon production in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1512.07227 [nucl-ex].
10.1016/j.physletb.2016.05.027.
Phys.Lett. B758 (2016) 389-401.

55) Centrality dependence of the charged-particle multiplicity density at midrapidity in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1512.06104 [nucl-ex].
10.1103/PhysRevLett.116.222302.
Phys.Rev.Lett. 116 (2016) no.22, 222302.

56) Charge-dependent flow and the search for the chiral magnetic wave in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV
By ALICE Collaboration (Jaroslav Adam et al.).
arXiv:1512.05739 [nucl-ex].
10.1103/PhysRevC.93.044903. Phys.Rev. C93 (2016) no.4, 044903.