

Prof. Dr. Alberica Toia

Full Professor W3

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Personal Information

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Education

- **Giessen University, Germany**
PhD in Physics (April 2004): "*Performance of the HADES Spectrometer for Dilepton Identification in the Reaction C+C at 1-2 AGeV*" (Supervisors: Prof. [REDACTED])
(final grade: "1 magna cum laude" / "very good")
- **Milano University, Italy**
Master in Physics (February 2001): "*Dilepton production in heavy ion collision - The time of flight wall at the HADES detector*" (Supervisors: Prof. Dr. Ileana Iori and Prof. [REDACTED])
(final grade: "104/110" / "very good")
- **Niels Bohr Institute, Copenhagen, Denmark**
Bachelor Diploma (May 1999): "*Studies of the Sigma Baryon - Strange Baryon Production in Hadronic Decays of the Z Boson*" (Supervisor: Prof. [REDACTED])
(final grade: "11/13" / "very good")

Employment Records

- **From 01/10/2013 to present**
Full Professor W3 at Institut für Kerne Physik, Goethe University Frankfurt am Main, Germany
joint appointment with GSI Helmholtzzentrum für Schwerionenforschung GmbH
 - ALICE: Centrality, Multiplicity, Nuclear-modification factors
 - CBM: Development of First Level Event Selector, triggering and physics performance studies

- **From 01/06/2012 to 30/09/2013**
Marie-Curie fellow with INFN Padova, Italy
 - Convener of ALICE p-A task force (run preparation, data taking, early analyses)
 - Dielectron measurements
 - Open-heavy flavor measurements
 - Convener of Global Event Characterization: Centrality and Event Plane measurement in Pb+Pb and p+Pb, software framework development and maintenance
 - Centrality Trigger preparation and monitoring during data taking

- **From 01/09/2011 to 31/05/2012**
Post-doc at Frankfurt Institute for Advanced Studies (FIAS), Germany
Project Associate at CERN, Switzerland
 - ALICE High Level Trigger: verification, validation, online monitoring during data taking and quality assurance
 - Global Event Characterization (Centrality and Event Plane) measurement in Pb+Pb and software framework development
 - Centrality Trigger preparation and monitoring during data taking

- **From 01/09/2008 to 31/08/2011**
Research Fellow at CERN, Switzerland
 - Bulk Properties of Pb+Pb collisions (mid/forward multiplicity, transverse energy, Glauber model,)
 - Centrality measurement in Pb+Pb and software framework development
 - Event Plane measurement in Pb+Pb and software framework development
 - Measurement of nuclear modification factors in the first heavy ion data
 - Analysis of Lambda and K0s in p+p and Pb+Pb data

- **From 15/11/2004 to 31/08/2008**
Post doctoral research fellow at Stony Brook University, New York, NY
 - Measurement of dielectron continuum and its resonances in p+p and Au+Au collisions
 - Measurement of direct photons via internal conversion in p+p and Au+Au collisions
 - Measurement of charm and beauty cross-section
 - Modeling of neutral meson and scaling properties of hadron production in p+p collisions
 - Production and studies of CsI coated photocathode for a Hadron Blind detector
 - Advisor for graduate students (Torsten Dahms, Haijiang Gong, Sarah Campbell)

- **From 01/04/2004 to 31/08/2004**
Research Employee at the II Physics Institute of the University of Giessen
 - Study of the HADES second level trigger performance
 - Dilepton analysis of C+C reaction at 1-2 AGeV

- **From 01/04/2001 to 31/03/2004**
Doctoral Research Assistant at the II Physics Institute of the University of Giessen
(Scholarship in the International Graduate School "*Complex System of Hadrons and Nuclei*", Giessen-Copenhagen-Helsinki-Jyvaskyla.
 - Study of the HADES second level trigger performance
 - Software development for the HADES second level trigger from the raw level to high analysis level
 - Integration of the Second level trigger algorithm in the PID code
 - Dilepton analysis of C+C reaction at 1-2 AGeV
 - Research periods at Copenhagen University: acceptance studies for the BRAHMS experiment

- **From 01/09/2000 to 31/03/2001**
Master student in the HADES experiment
 - Time of flight detector installation, calibration, first test and data analysis.

- **May 1999**
Research activities at the HASYLAB of DESY in Hamburg (X-Ray Physics, synchrotron radiation)
- **Form 01/09/1998 to 30/06/1999**
ERASMUS-SOCRATES scholarship at the Niels Bohr Institute of Copenhagen University
- **From 01/09/1995 to 08/01/2001**
Physics undergraduate at the Mathematical, Physical, and Natural Sciences Faculty at University of Milano

Grants & Awards

- **BMBF: CBM FIRST-LEVEL EVENT SELECTOR FLES:DATENREDUKTION UND PHYSIKALISCHE EREIGNIS-SIGNATUREN** , 124129.25 Euro, 2015
- **EPLANET: The European Particle physics Latin America NETwork**, 2015
- **Helmholtz-Rekrutierungsinitiative**, 2013
- **Marie Curie Fellowship** 2012
- First Position in **Brookhaven Lab's Top 5 Scientific Discoveries** of 2010 for the measurement of the temperature of the Quark Gluon Plasma (see publication list)
- “Highest man-made temperature” in the **Guinness World Records**
(<http://www.guinnessworldrecords.com/world-records/10000/highest-man-made-temperature>)
- **ERASMUS-SOCRATES** fellowship 1998-1999

Committees

- Member of INFN committee for awarding 4 positions as INFN Research director (16617/2014), with the role of secretary
- Member of Goethe University of Frankfurt committee:
 - Professor Prof. [REDACTED]
 - Apl.-Professor Dr. [REDACTED], with the role of secretary
- Referee for SONATA BIS: Application form in a funding opportunity addressed to researchers holding a doctoral degree, wanting to establish a new research team and become independent research leaders, for the National Science Center, Poland
- Referee for OPUS 8: Application form in a funding opportunity for research projects, including projects requiring purchase or construction of necessary equipment, for the National Science Center, Poland
- Opponent in the PhD committee of [REDACTED], Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering
- Opponent in the Master committee of E. Nibigira, African Institute for Mathematical Sciences (AIMS), Senegal
- Member of Editorial Board of CBM-FLES Technical Design Report

Professional Memberships and Services

- Convener of ALICE p-A task-force (2012-2013)
- Convener of ALICE Physics Working Group on Event Characterization (2011-present)
- Convener of PHENIX Physics Working Group on Light Vector Meson (2008-2010)
- Member and chair of various Paper Committee for ALICE
- Member and chair of various Internal Review Committee for ALICE
- Member and chair of various Paper Preparation Group Committee for PHENIX
- Member and chair of various Internal Review Committee for PHENIX
- Organizer of CERN Workshop “pA @ LHC” (2012)
- Organizer of HLT Workshop (2012)
- Organizer of Workshop “Electromagnetic Probes: Photons and Dileptons” of RHIC-AGS Users Meeting (2008)

- Host of the Physics Kolloquium at Goethe University of Frankfurt
- Organizer of the weekly Nuclear Physics Seminar at Stony Brook (2006-2008)
- Student Representative in the International Graduate School "*Complex System of Hadrons and Nuclei*", Giessen-Copenhagen-Helsinki-Jyvaskyla. (2001-2004)
- Young Member Representative in the HADES Collaboration Board (2002-2004)
- American Physical Society member
- Deutsche Physikalische Gesellschaft member

Referee

- Physics Review Letters
- Physics Letters B
- Physics Review C
- European Physical Journal A
- European Physical Journal C
- Nuclear Physics A
- Journal of Physics G

Outreach

- Girls's Day, April 2016
- "A new chapter opens with more Pb–Pb collisions for a precision study of hot and dense QCD matter" (CERN Courier, January 2016)
- "Participants and Spectators of the heavy-ion fireball" (CERN Courier, May 2013)
- CERN Master Classes, 2010
- Guided tours to the ALICE experiments

Teaching

- **Fall 2016, Frankfurt:** Kerne und Teilchen 4a (Electromagnetic Probes)
- **Spring 2016, Frankfurt:** Kerne und Teilchen 4 (Physics of the Quark-Gluon Plasma)
- **Fall 2015, Frankfurt:** Detector and Beams - Proseminar
- **Spring 2015, Frankfurt:** Kerne und Teilchen 4 (Physics of the Quark-Gluon Plasma)
- **Fall 2014, Frankfurt:** Kerne und Teilchen 3 (nuclear forces and models)
- **Spring 2007, Stony Brook:** Physics 122 (electromagnetism, optics) recitation
- **Fall 2006, Stony Brook:** Physics 121 (mechanics, thermodynamics, waves) recitation
- **Spring 2006, Stony Brook:** Physics 122 (electromagnetism, optics) recitation
- **Spring 2004, Giessen:** Physics 1 (mechanics, thermodynamics, waves) and Physics 3 (modern physics: atomic, nuclear, solid state) laboratory
- **Fall 2003, Giessen:** Physics 2 (electromagnetism, optics) laboratory
- **Spring 2003, Giessen:** Physics 1 and 3 laboratory
- **Fall 2002, Giessen:** Physics 2 laboratory
- **Spring 2002, Giessen:** Physics 1 and 3 laboratory
- **Fall 2001, Giessen:** Physics 2 laboratory
- **Spring 2001, Giessen:** Physics 1 and 3 laboratory

Student Supervision

- ██████████: Strangeness production and performance of the online selection with the CBM experiment at FAIR, PhD candidate

- [REDACTED]: Charged Particle Production in pp and AA collisions measured by ALICE at LHC, PhD candidate
- [REDACTED]: Particle Production: Multiplicity and momentum distributions, Baryon and meson ratios in pp and AA collisions measured by ALICE at LHC, PhD candidate
- [REDACTED]: Development and test of a free-streaming readout chain for the CBM Silicon Tracking System, PhD candidate
- [REDACTED]: Performance of the CBM experiment for the anisotropic flow measurements, PhD candidate
- [REDACTED]: J/ψ production in relativistic heavy ion collisions, Post-Doc

Languages

- Italian: native speaker
- English: fluent written and spoken, regular use
- German: good written and spoken, 5 years of learning experience and living in Germany
- French: good spoken, basic knowledge written, 5 years of living in Geneva
- Spanish: basic knowledge
- Danish: basic knowledge, 1 year of learning experience and living in Denmark

References

- [REDACTED]

Publications

The list of publications is organized as follows: the first group contains the papers where I am the primary (or among the primary) author of the analysis or the paper; the second group contains the ALICE publications, the third group contains the PHENIX publications, the last group contains the HADES publications. According to this [list](#), a **Hirsch-index** of **119** has been calculated.

1. S.Acharya et al, *Centrality and pseudorapidity dependence of the charged-particle multiplicity density in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV*, Phys.Lett.B 790 (2019) 35-4

2. S.Acharya et al, *Transverse momentum spectra and nuclear modification factors of charged particles in Xe-Xe collisions at $\sqrt{s_{NN}}= 5.44$ TeV*, Phys.Lett.B 788 (2019) 166-179
3. S.Acharya et al, *Anisotropic flow in Xe-Xe collisions at $\sqrt{s_{NN}}= 5.44$ TeV*, Phys.Lett.B 784 (2018) 82
4. S.Acharya et al, *Transverse momentum spectra and nuclear modification factors of charged particles in pp, p-Pb and Pb-Pb collisions at the LHC*, JHEP 1811 (2018) 013
5. J. Adam et al, *Pseudorapidity and transverse-momentum distributions of charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV*, Phys.Lett. B753 (2016) 319-329
6. J. Adam et al, *Centrality dependence of the charged-particle multiplicity density at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, arXiv:1512.06104 (2015)
7. J. Adam et al., *Pseudorapidity and transverse-momentum distributions of charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV*, arXiv:1509.08734 (2015)
8. K. Aamodt et al, *Charged-particle multiplicity density at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*, Phys.Rev.Lett 105:252301 (2010). cited 216 times.
9. K. Aamodt et al., *Elliptic flow of charged particles in Pb-Pb collisions at 2.76 TeV*, arXiv:1011.3914v1, Phys.Rev.Lett.105:252302, 2010. Cited 339 times.

For this article a VIEWPOINT has been published

Edvard Shuryak, Department of Physics and Astronomy, Stony Brook University, Stony Brook, NY 11794, USA A "Little Bang" arrives at the LHC, Published December 13, 2010

<http://physics.aps.org/articles/v3/105>

10. B. Abelev et al., *Centrality Dependence of particle production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV*, arXiv:1412.6828 (2014).
11. J. Adam et al., *Charged-particle multiplicities in proton-proton collisions at $\sqrt{s} = 0.9$ to 8 TeV*, arXiv:1509.07541 (2015)
12. J. Adam et al., *Centrality evolution of the charged-particle pseudorapidity density over a broad pseudorapidity range in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1509.07299 (2015)
13. J. Adam et al., *Centrality dependence of inclusive J/ψ production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, arXiv:1506.08808 (2015)
14. B. Abelev et al., *Performance of the ALICE Experiment at the CERN LHC*, Int. J. Mod. Phys. A29 (2014) 1430044
15. A. Adare et al., *Detailed measurement of the $e+e^-$ pair continuum in p + p and Au + Au collisions at $\sqrt{s_{NN}}=200$ GeV and implications for direct photon production*, Phys. Rev. C 81, 034911 (2010). cited 159 times.
16. A. Adare et al., *Enhanced production of direct photons in Au + Au collisions at $\sqrt{s_{NN}}^{1/2} = 200$ -GeV*, Phys. Rev. Lett. 104, 132301 (2010) cited 244 times

For the latter two articles a VIEWPOINT* has been published

Charles Gale, Department of Physics, McGill University, Montréal, QC H3A 2T8, Canada

Taking the temperature of extreme matter, Published March 29, 2010

<http://physics.aps.org/articles/v3/28>

This research was awarded with the first position in Brookhaven Lab's Top 5 Scientific Discoveries of 2010

17. A. Toia, *Particle Production in p-Pb collisions with ALICE at the LHC*, arXiv:1510.08730 (2015)
18. A. Toia, *Centrality Dependence of Particle Production in p-A collisions measured by ALICE*, arXiv:1510.08721 (2015)
19. A. Toia, *Centrality Dependence of particle production in p-A collisions measured by ALICE*, Nucl. Phys. A931 (2014) 315-319.
20. A. Toia, *ALICE Measurements in p-Pb Collisions: Charged Particle Multiplicity, Centrality Determination and implications for Binary Scaling*, Nucl. Phys. A926 (2014) 78-84
21. B. Abelev et al., *Multiplicity dependence of the average transverse momentum in pp, p-Pb, and Pb-Pb collisions at the LHC*, arXiv:1307.1094
22. B. Abelev et al., *Transverse Momentum Distribution and Nuclear Modification Factor of Charged Particles in p-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV*, Phys.Rev.Lett. 110 082302 (2013).

23. B. Abelev et al., *Pseudorapidity density of charged particles p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV*, Phys.Rev.Lett. 110 032301 (2013).
24. B. Abelev et al., *Centrality determination of Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE*, Phys.Rev. C88 044909 (2013).
25. K. Aamodt et al, *Centrality dependence of the charged-particle multiplicity density at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*, Phys.Rev.Lett 106:230301 (2011). cited 240 times.
K. Aamodt et al., *Suppression of charged particles production at large transverse momentum in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, Phys. Lett. B 696 30–39 (2011). cited 289 times
26. A.Toia, *Bulk Properties of Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV measured by ALICE*, J.Phys.G: 38:124007 (2011). cited 41 times
27. A. Adare et al, *Observation of direct-photon collective flow in $\sqrt{s_{NN}}=200$ GeV Au+Au collisions*, Phys.Rev.Lett. 109 (2012) 122302 (2011). Cited 61 times
28. A. Toia, *Enhanced dilepton radiation at RHIC*, Prog.Part.Nucl.Phys.62:492-497, 2009.
29. A. Toia, *$e+e-$ pairs: a clock and a thermometer of relativistic heavy ion collision*, J.Phys.G 35:104037, 2008. cited 15 times
30. A. Toia, *Measurements of dilepton continuum at the PHENIX experiment at RHIC*, PoS CPOD07: 03, 2007.
31. A. Adare et al., *Measurement of neutral mesons in p+p collisions at $\sqrt{s}= 200$ GeV and scaling properties of hadron production*, Phys. Rev. D 83, 052004 (2011). cited 47 times
32. A. Adare et al., *Charged hadron multiplicity fluctuations in Au+Au and Cu+Cu collisions from $\sqrt{s_{NN}} = 22.5$ to 200 GeV*, Phys.Rev.C78:044902 (2008). cited 30 times
33. S. Afanasiev et al., *Enhancement of the dielectron continuum in $s_{NN} = 200$ GeV Au+Au collisions*, arXiv: nucl-exp/07063034, (2007) cited 83 times
34. A. Adare et al., *Dilepton mass spectra in p+p collisions at $s^{*(1/2)} = 200$ -GeV and the contribution from open charm*, Physics Letters B 670, 313 (2009) cited 78 times
35. A. Adare et al., *Dihadron azimuthal correlations in Au+Au collisions at $s_{NN}^{*(1/2)} = 200$ -GeV*, Phys.Rev.C78:014901 (2008). cited 270 times
36. A.Toia, *Measurement of low mass dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions with the PHENIX experiment at RHIC*, Eur.Phys.J.C49:243-247 (2007).
37. A.Toia, *Measurement of low mass dielectron continuum in $s_{NN} = 200$ GeV Au+Au collisions with the PHENIX experiment at RHIC*, Nucl.Phys.A774:743-746, 2006. cited 22 times
38. A.Toia et al., *A Highly Selective Dilepton-Trigger System Based on Ring Recognition*, Nucl. Instr. and Meth. A 502 270 (2003).
39. A.Toia, J. Lehnert et al., *The HADES second level trigger: from the concept to the first results with C+C reactions*, Proceedings of the XLI International Winter Meeting on Nuclear Physics; Ricerca Scientifica ed Educazione Permanente Supplemento N. 120, p. 351 (2003).
40. A.Toia et al., *The HADES second level trigger algorithm: principles and first results from experiments with C beam*, Proceedings of the XL International Winter Meeting on Nuclear Physics; Ricerca Scientifica ed Educazione Permanente Supplemento N. 119, p. 112 (2002).

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41. J. Adam et al, *Multipion Bose-Einstein correlations in pp, p-Pb, and Pb-Pb collisions at the LHC*, arXiv:1512.08902 (2015)
42. J. Adam et al, *Multi-strange baryon production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$* , arXiv:1512.07227 (2015)
43. J. Adam et al, *Charge-dependent flow and the search for the Chiral Magnetic Wave in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1512.05739 (2015)
44. J. Adam et al., *Measurement of an excess in the yield of J/ψ at very low p_T in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*, arXiv:1509.08802 (2015)
45. J. Adam et al., *Inclusive quarkonium production at forward rapidity in pp collisions at $\sqrt{s} = 8$ TeV*, arXiv:1509.08258 (2015)
46. J. Adam et al., *Measurement of electrons from heavy-flavour hadron decays in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV*, arXiv:1509.07491 (2015)
47. J. Adam et al., *Azimuthal anisotropy of charged jet production in $\sqrt{s_{NN}} = 2.76$ TeV Pb-Pb collisions*, arXiv:1509.07334 (2015)
48. J. Adam et al., *Direct photon production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1509.07324 (2015)

49. J. Adam et al., *Measurement of $D+s$ production and nuclear modification factor in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1509.07287 (2015)
50. J. Adam et al., *Multiplicity and transverse momentum evolution of charge-dependent correlations in pp, p-Pb, and Pb-Pb collisions at the LHC*, arXiv:1509.07255 (2015)
51. J. Adam et al., *Transverse momentum dependence of D-meson production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1509.06888 (2015)
52. J. Adam et al., *Coherent $\psi(2S)$ photo-production in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1508.05076 (2015)
53. J. Adam et al., *Precision measurement of the mass difference between light nuclei and anti-nuclei*, Published in Nature Phys. (2015), arXiv:1508.03986
54. J. Adam et al., *Study of cosmic ray events with high muon multiplicity using the ALICE detector at the CERN Large Hadron Collider*, arXiv:1507.07577 (2015)
55. J. Adam et al., *Centrality dependence of pion freeze-out radii in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1507.06842 (2015)
56. J. Adam et al., *Event shape engineering for inclusive spectra and elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*, arXiv:1507.06194 (2015)
57. J. Adam et al., *Elliptic flow of muons from heavy-flavour hadron decays at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1507.03134 (2015)
58. J. Adam et al., *Production of light nuclei and anti-nuclei in pp and Pb-Pb collisions at LHC energies*, arXiv:1506.08951 (2015)
59. J. Adam et al., *phi-meson production at forward rapidity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and in pp collisions at $\sqrt{s} = 2.76$ TeV*, arXiv:1506.09206 (2015)
60. J. Adam et al., *$3\Lambda H$ and $3\Lambda\bar{H}$ production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.08453 (2015)
61. J. Adam et al., *Differential studies of inclusive J/ψ and $\psi(2S)$ production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.08804 (2015)
62. J. Adam et al., *Forward-central two-particle correlations in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, arXiv:1506.08032 (2015)
63. J. Adam et al., *One-dimensional pion, kaon, and proton femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.07884 (2015)
64. J. Adam et al., *Search for weakly decaying $\Lambda\bar{n}$ and $\Lambda\Lambda$ exotic bound states in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.07499 (2015)
65. J. Adam et al., *Centrality dependence of the nuclear modification factor of charged pions, kaons, and protons in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.07287 (2015)
66. J. Adam et al., *Centrality dependence of high- p_T D meson suppression in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1506.06604 (2015)
67. J. Adam et al., *Measurement of jet quenching with semi-inclusive hadron-jet distributions in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, JHEP 1509 (2015) 170
68. J. Adam et al., *Measurement of charm and beauty production at central rapidity versus charged-particle multiplicity in proton-proton collisions at $\sqrt{s}=7$ TeV*, JHEP 1509 (2015) 148
69. J. Adam et al., *Inclusive, prompt and non-prompt J/ψ production at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, JHEP 1507 (2015) 051
70. J. Adam et al., *Measurement of pion, kaon and proton production in proton-proton collisions at $\sqrt{s}=7$ TeV*, Eur.Phys.J. C75 (2015) 5, 226
71. J. Adam et al., *Coherent ρ_0 photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, JHEP 1509 (2015) 095
72. J. Adam et al., *Rapidity and transverse-momentum dependence of the inclusive J/ψ nuclear modification factor in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, JHEP 1506 (2015) 055
73. J. Adam et al., *Measurement of dijet k_T in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, Phys.Lett. B746 (2015) 385-395
74. J. Adam et al., *Measurement of charged jet production cross sections and nuclear modification in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, Phys.Lett. B749 (2015) 68-81
75. J. Adam et al., *Measurement of jet suppression in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, Phys.Lett. B746 (2015) 1-14
76. J. Adam et al., *Two-pion femtoscopy in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, Phys.Rev. C91 (2015) 034906

77. J. Adam et al., *Forward-backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV*, JHEP 1505 (2015) 097
78. B. Abelev et al., *Inclusive photon production at forward rapidities in proton-proton collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV*, Eur.Phys.J. C75 (2015) 4, 146
79. B. Abelev et al., *Charged jet cross sections and properties in proton-proton collisions at $\sqrt{s} = 7$ TeV*, Phys.Rev. D91 (2015) 11, 112012
80. B. Abelev et al., *Production of inclusive $Y(1S)$ and $Y(2S)$ in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, Phys.Lett. B740 (2015) 105-117
81. B. Abelev et al., *Event-by-event mean p_T fluctuations in pp and Pb-Pb collisions at the LHC*, Eur.Phys.J. C74 (2014) 10, 3077
82. B. Abelev et al., *Technical Design Report for the Upgrade of the ALICE Inner Tracking System*, J.Phys. G41 (2014) 087002
83. B. Abelev et al., *Exclusive J/ψ photoproduction off protons in ultra-peripheral p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV*, arXiv:1406.7819
84. B. Abelev et al., *Multiplicity dependence of jet-like two-particle correlations in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV*, arXiv:1406.5463
85. B. Abelev et al., *Production of $\Sigma(1385)^{+/-}$ and $\Xi(1530)0$ in proton-proton collisions at $\sqrt{s}=7$ TeV*, arXiv:1406.3206
86. B. Abelev et al., *Multi-particle azimuthal correlations in p-Pb and Pb-Pb collisions at the CERN Large Hadron Collider*, Phys.Rev. C90 (2014) 054901
87. B. Abelev et al., *Elliptic flow of identified hadrons in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, arXiv:1405.4632
88. B. Abelev et al., *Suppression of $Y(1S)$ at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV*, Phys.Lett. B738 (2014) 361-372
89. B. Abelev et al., *Beauty production in pp collisions at $\sqrt{s} = 2.76$ TeV measured via semi-electronic decays*, Phys.Lett. B738 (2014) 97-108
90. B. Abelev et al., *Measurement of electrons from semileptonic heavy-flavor hadron decays in pp collisions at $\sqrt{s} = 2.76$ TeV*, arXiv:1405.4117
91. B. Abelev et al., *Suppression of $\psi(2S)$ production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, arXiv:1405.3796
92. B. Abelev et al., *Neutral pion production at midrapidity in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*, Eur.Phys.J. C74 (2014) 10, 3108
93. B. Abelev et al., *Measurement of prompt D-meson production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*, arXiv:1405.3452
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* Note that of the 18,000 papers the Physical Review publishes every year, only about 100 receive Viewpoints.

1. *ALICE measures pA collisions: collectivity in small systems?* 2nd International Conference on Particle Physics and Astrophysics, Moscow, Russia, 10-14 Oct 2016
2. *ALICE at LHC: Status and Highlights*, QCD at work, International Workshop on Quantum Chromodynamics Theory and Experiment, Martina Franca (Italy), 27-30 June 2016
3. *First Run-2 results from ALICE*, XLV International Symposium on Multiparticle Dynamics Wildbad Kreuth, 4-9 Oct 2015
4. *Centrality dependence of particle production in p-Pb collisions with ALICE at the LHC*, Strangeness in Quark Matter 2015, Dubna, 06-11 July 2015
5. *High-pT particle production in p-Pb collisions with ALICE at the LHC*, Nucleus-Nucleus 2015, Catania 21-26 June 2015
6. *Cold Nuclear Matter at the LHC mini-Bang*, invited plenary talk at DPG Spring Meeting 2015, Heidelberg 23-27 March 2015
7. *Centrality dependence of particle production in p-A collisions measured by ALICE*, Quark Matter 2014, Darmstadt, 19-24 May 2014.
8. *Alice measurements in p-Pb collisions: Charged particle multiplicity, centrality determination and implications for binary scaling*, invited plenary talk at International Conference on Initial Stages in High-Energy Nuclear Collisions 2013, Illa de A Toxa, Spain, 10 September 2013.
9. *Bulk Properties of Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV measured by ALICE*, invited plenary talk at Quark Matter 2011, Annecy, 24 May 2011.
10. *Particle Production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV measured by the ALICE experiment*, Winter Workshop on Recent QCD Advances at the LHC, Les Houches, 14 February 2011.
11. *Dileptons at RHIC*, 30th Course of International School of Nuclear Physics, Erice, 17-24 September 2008.
12. *Direct photon spectra in Au+Au collisions at RHIC as measured by the PHENIX Collaboration*, IV Workshop on Particle Correlation and Femtoscopy, Cracow, 10 September 2008.
13. *Studying the Quark Gluon Plasma with the Relativistic Heavy Ion Collider*, EMMI Kick-off Meeting, GSI-Darmstadt, 16-17 July 2008.
14. *Electrons and Photons: a clock and a thermometer of relativistic heavy ion collision*, ACS Meeting, New Orleans, 10 April 2008.
15. *e+e- pairs: a clock and a thermometer of relativistic heavy ion collision*, invited plenary talk at DPG Spring Meeting 2008, Darmstadt, 13 March 2008.
16. *e+e- pairs: a clock and a thermometer of relativistic heavy ion collision*, invited plenary talk at Quark Matter 2008, Jaipur, 08 February 2008.
17. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Critical Point and Onset of Deconfinement GSI, Darmstadt, 09-13 July 2007.
18. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Electromagnetic Probes of Strongly Interacting Matter: The Quest for Medium Modifications of Hadrons ECT, Trento, 18-22 June 2007.
19. *Measurement of low mass dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions with the PHENIX experiment at RHIC*, Hot Quark 2006, Villasimius, 15-20 May 2006.
20. *Measurement of low mass dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions with the PHENIX experiment at RHIC*, Second Joint Meeting of the American Physical Society and the Physical Society of Japan 2005, Maui, 18-22 Sep 2005.
21. *Measurement of low mass dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions with the PHENIX experiment at RHIC*, Quark Matter 2005, Budapest, 4-9 Aug 2005.
22. *The HADES Second Level Trigger: From the Concept to First Results with C+C experiments*, XLI International Winter Meeting on Nuclear Physics (26.1.03-2.2.03, Bormio).
23. *The Dilepton Selection of the HADES trigger*, DoktorandenTag (10.10.02, Giessen).
24. *A Highly Selective Dilepton-Trigger System Based on Ring Recognition*, IV Workshop on RICH Detectors (4.6.02-9.6.02, Pylos).
25. *Performance of the Trigger System of the HADES Detector*, DPG Tagung (11.3.02-15.3.02, Muenster Germany).
26. *The HADES second level trigger algorithm: principles and first results from experiments with C beam*, XL International Winter Meeting on Nuclear Physics (21.1.02-26.1.02, Bormio)

Workshops

27. *Centrality Measurement in p-Pb collisions with ALICE*, Workshop pA @ LHC, 5 June 2012.

28. *Measurements of p-Pb and Pb-p collisions with ALICE*, Workshop pA @ LHC, 4 June 2012.
29. *Performances of HLT Online Monitoring*, HLT Workshop, Frascati, 10 February 2012.
30. *Measuring the hottest temperature in the Universe*, EMMI Symposium on Perspectives in Quark Gluon Plasma Physics, GSI, 29 March 2010.
31. *Measurement of dielectron spectra in p+p and Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV*, Electromagnetic Radiation in Nuclear Collisions, CERN, 17-19 December 2007.
32. *Dilepton Trigger Performance of the HADES Spectrometer @ GSI*, Evaluation Day of the "International Graduate School - Complex Systems of Hadrons and Nuclei" (12.12.02, Giessen).
33. *The Dilepton Selection of the HADES trigger*, DoktorandenTag (10.10.02, Giessen).
34. *Online Ring Recognition with the HADES RICH*, III Lecture Week of the "International Graduate School - Complex Systems of Hadrons and Nuclei", (18.2.02-23.2.02, Rauischholzhausen Castle).

Invited Seminars

35. *The primordial soup Quark Gluon Plasma: Tastes and Flavours of the Early Universe*, Antrittsvorlesung Frankfurt University, 28 October 2015.
36. *Cold Nuclear Matter at the LHC mini-Bang*, invited seminar at Heidelberg University, 30 June 2015.
37. *Cold Nuclear Matter at the LHC mini-Bang*, invited seminar at IKF Frankfurt, 19 December 2013.
38. *Soft QCD Results from ALICE @ LHC*, invited seminar at INFN Padova, 22 March 2012.
39. *Centrality Determination in ALICE @ LHC*, invited seminar at IPN Orsay, 20 February 2012.
40. *Soft QCD results from ALICE at LHC*, Rencontres de Ion Lourds, Orsay, 17 February 2012.
41. *Measuring the hottest temperature in the Universe*, Frankfurt University, 16 April 2010.
42. *Electromagnetic Radiation from a Quark Gluon Plasma*, EP/PP seminar at CERN, 15 December 2009.
43. *Electromagnetic Radiation from a Quark Gluon Plasma*, Lawrence Berkeley National Laboratory, 18 August 2009.
44. *Electromagnetic Radiation from a Quark Gluon Plasma*, Giessen University, 16 July 2009.
45. *Electromagnetic Radiation from a Quark Gluon Plasma*, Frankfurt University, 26 March 2009.
46. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Lawrence Berkeley National Laboratory, 04 October 2007.
47. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, CERN, 06 July 2007.
48. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Torino University, 28 June 2007.
49. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Frankfurt University, 27 June 2007.
50. *Enhancement of the dielectron continuum in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions*, Giessen University, 25 June 2007.
51. *Search for QGP with electromagnetic probes*, Stony Brook University, 11 October 2006.
52. *Physics with electrons with the PHENIX experiment at RHIC*, Università Statale di Milano, 25 May 2006.
53. *Physics with electrons with the PHENIX experiment at RHIC*, Ecole Polytechnique Palaiseau, 23 May 2006.
54. *Physics with electrons with the PHENIX experiment at RHIC*, Forschungszentrum Jülich, 11 May 2006.
55. *Performance of the HADES Spectrometer for Dilepton Identification in the Reaction C+C at 1-2 A*
56. *The HADES Second Level Trigger: Concept and Status*, TU Munich, 22 May 2002.