

Ionut-Cristian Arsene

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PERSONAL DETAILS

Birth date: 28.January 1980

Birth place: Husi, Romania

Nationality: romanian

EDUCATION

- | | |
|-------------------|--|
| 20.05.2009 | Ph.D. in physics at the University of Oslo, Faculty of Mathematics and Natural Sciences
Thesis title: „Properties of hot and dense matter created in relativistic heavy ion collisions“
Supervisors: Prof.Dr. L. Bravina, Prof.Dr. T.S.Tveter |
| 25.03.2004 | Master of Science at the University of Bucharest, Faculty of Physics
Specialization: Atomic, Nuclear Interaction, Astrophysics, Elementary Particles and Applications
Thesis title: „Charged particle pseudo-rapidity densities in Au+Au and d+Au collisions at $\sqrt{s_{NN}}=200\text{GeV}$ with the BRAHMS experiment at RHIC.“
Supervisor: Prof.Dr. A.Jipa |
| 10/1998 - 07/2002 | Faculty of Physics, University of Bucharest |
| 09.1994 – 08.1998 | Theoretical highschool „Cuza-Voda“, Husi, Romania |

WORKING EXPERIENCE

- | | |
|-------------------|---|
| 10/2013 – present | <i>Postdoctoral research fellow</i>
Faculty of Mathematics and Natural Sciences, University of Oslo, Norway
Activities: Research (ALICE Collaboration), teaching |
| 08/2009 – 09/2013 | <i>Postdoctoral research fellow</i>
Research Division and ExtreMe Matter Institute EMMI, GSI Helmholtz-zentrum für Schwerionenforschung GmbH, Darmstadt, Germany
Activities: Research (ALICE Collaboration), teaching |
| 09/2010 – present | <i>Scientific researcher 3 (on leave)</i>
Institute for Space Sciences, Bucharest-Magurele, Romania
Laboratory of Space Research |
| 02/2005 – 07/2009 | <i>Ph.D. student</i>
University of Oslo, Faculty of Mathematics and Natural Sciences
Research activities: BRAHMS Collaboration member, development of Monte-Carlo models for heavy ion collisions, calculations using simulation models
Supervisors: Prof.Dr.L.Bravina, Prof.Dr.T.S.Tveter |
| 02/2005 – 08/2010 | <i>Assistant researcher (on leave)</i>
Institute for Space Sciences, Bucharest – Magurele, Romania
Laboratory of Space Research |

09/2002 – 02/2005 *Assistant researcher*
 Institute for Space Sciences, Bucharest – Magurele, Romania
 Laboratory of Space Research
 Activities: Research (BRAHMS Collaboration member)

PROJECTS AND MEMBERSHIPS

2015 – present	Member of the ALICE Collaboration Physics Board
2015 – present	Convener of the ALICE PWG Dileptons and Quarkonia (PWG-DQ)
2013 – present	Convener of the ALICE PWG-DQ analysis group $J/\psi \rightarrow$ dielectrons
2011 – present	Coordinator of the data quality assurance group of the Transition Radiation Detector (TRD) from ALICE
2011 – present	Member of the ALICE Physics Working Group Correlations and Fluctuations (PWGCF)
2009 – present	Member of the ALICE Physics Working Group Physics Performance (PWGPP)
2009 – present	Member of the ALICE Transition Radiation Detector project
2009 – present	Member of the ALICE Physics Working Group Dileptons and Quarkonia (PWGDQ)
2008 – present	ALICE Collaboration Activities: writing research papers, data analysis, detector calibration and data quality assurance, data taking shifts for the TPC/TRD detectors
2003 – present	BRAHMS Collaboration Activities: writing research papers, data analysis, data taking shifts

FOREIGN LANGUAGES

Romanian – native tongue
 English – fluent in understanding, speech and writing
 Italian – fluent in understanding, speech and writing
 French – proficient in understanding, speech and writing
 Norwegian – basic level in understanding, speech and writing
 Russian – basic level in understanding, speech and writing

IT KNOWLEDGE

Development	C/C++, FORTRAN, PASCAL, BASIC, BASH, HTML
Applications	ROOT, AliROOT OpenOffice, LaTeX, MS Office

TALKS AT INTERNATIONAL CONFERENCES AND WORKSHOPS

02/2016	ECT* Workshop: New observables in quarkonium production , Trento, Italy, Invited talk, " J/ψ production in nucleus-nucleus collisions from SPS to LHC"
06/2015	Strangeness in Quark Matter SQM2015 , JINR Dubna, Russia, Plenary talk on behalf of the ALICE Collaboration, " <i>Heavy quarkonium production in Pb-Pb and p-Pb collisions with ALICE at the LHC</i> "
12/2014	Ab initio approaches in many-body QCD confront heavy-ion

	experiments , Heidelberg, Germany Invited talk, <i>"Heavy quarkonium in Pb-Pb and p-Pb collisions at the LHC"</i>
12/2014	International Workshop on Discovery Physics at the LHC , Kruger Park, South Africa Invited talk on behalf of the ALICE Collaboration, <i>"Charmonium production in Pb-Pb at p-Pb collisions with ALICE at the LHC"</i>
09/2013	QCD@LHC2013 , DESY, Hamburg, Germany Invited talk on behalf of the LHC Collaborations, <i>"Quarkonium production in Pb-Pb collisions at the LHC"</i>
04/2013	The 9th International Workshop on Heavy Quarkonium (QWG2013) IHEP, Beijing, China Invited talk on behalf of the ALICE Collaboration, <i>"Results charmonium and bottomonium production in Pb-Pb collisions in ALICE"</i>
09/2012	Workshop for the young scientists with research interests focused on physics at FAIR (FAIRNESS 2012) , Hersonissos, Greece Invited talk on behalf of the ALICE Collaboration, <i>"J/ψ production in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV"</i> Proceedings published in J.Phys.Conf.Ser. 426 (2013) 012023
08/2012	The 23rd International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter 2012) , Washington, USA Talk on behalf of the ALICE Collaboration, <i>"J/ψ production at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV"</i> Proceedings published in Nucl.Phys.A904-905 (2013) 623c
03/2012	XX International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2012) , Bonn, Germany Talk on behalf of the ALICE Collaboration, <i>"Charmonium production in pp collisions with ALICE"</i> Proceedings published in doi:10.3204/DESY-PROC-2012-02/152
06/2011	Quarkonium Production in Elementary and Heavy Ion Collisions , BNL New York, USA Talk on behalf of the ALICE Collaboration, <i>"Inclusive J/ψ production in pp collisions with ALICE"</i>
04/2011	Quarkonium Production - Probing QCD at the LHC , Vienna, Austria Talk on behalf of the ALICE Collaboration, <i>"Inclusive J/ψ cross-section in p+p collisions at 7 TeV with the ALICE detector"</i>
10/2010	First ReteQuarkonii Workshop (RQW 2010) , Nantes, France Talk on behalf of the ALICE Collaboration, <i>"Quarkonium in ALICE central barrel"</i>
10/2008	Strangeness in Quark Matter SQM2008 , Beijing, China Plenary talk on behalf of the BRAHMS Collaboration, Title: <i>"Centrality and rapidity dependence of the K/π ratios in Au-Au collisions at 62.4 GeV"</i> Proceedings published in J.Phys.G36 (2009) 064004
09/2008	Workshop of the European Physics Network , Villasimius, Italy <i>"A hadronic freezeout parameterization for non-central heavy ion collisions with jets"</i>
02/2008	The 20th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter 2008) , Jaipur, India Talk on behalf of the BRAHMS Collaboration, Title: <i>"Strangeness production in Au+Au reactions at $\sqrt{s_{NN}}=62.4$ GeV"</i> Proceedings published in J.Phys. G35 (2008) 104056
09/2007	Fundamental Interactions , Novisad, Serbia Invited talk on behalf of the BRAHMS Collaboration, <i>"Highlights of BRAHMS results for heavy ion collisions at RHIC-BNL energies"</i>
04/2007	Numerical and conceptual issues in Relativistic Hydrodynamics

	Workshop , Frankfurt, Germany <i>„A 3D smoothed particle hydrodynamics model“</i>
02/2007	GDRE workshop in Heavy Ion Physics , Grybow, Poland <i>„A 3D smoothed particle hydro model for heavy ion collisions“</i>
08/2006	Helmholtz International Summer School on dense matter in heavy ion collisions and astrophysics , JINR Dubna, Russia Talk on behalf of the BRAHMS Collaboration, <i>„BRAHMS Collaboration results for relativistic heavy ion collisions“</i> Proceedings published in Phys.Part.Nucl. 39 (2008) 1082
04/2005	2nd International Workshop on the critical point and the onset of deconfinement (CPOD 2005) , Bergen, Norway Talk on behalf of the BRAHMS Collaboration, <i>„Charged mesons in Au+Au interactions at $\sqrt{s_{NN}}=62.4$ GeV“</i>

TALKS AT NATIONAL MEETINGS

03/2012	Deutsche Physikalische Gesellschaft , Mainz, Germany Talk on behalf of the ALICE Collaboration, <i>„Centrality dependent J/ψ production in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with ALICE“</i>
03/2010	Deutsche Physikalische Gesellschaft , Bonn, Germany Talk on behalf of the ALICE Collaboration, <i>„Inclusive J/ψ cross-section in p+p collisions at 7 TeV with the ALICE detector“</i>

Hirsch index (Web of Science): 38

PUBLICATIONS IN INTERNATIONAL REFEREED SCIENTIFIC JOURNALS *

1. JHEP 1511 (2015) 127, ALICE Collaboration (J.Adam et al.), *„Centrality dependence of inclusive J/ψ production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV“, **Impact factor: 6.111***
2. JHEP 1506 (2015) 055, ALICE Collaboration (B.Abelev et al.), *„Rapidity and transverse momentum dependence of the inclusive J/ψ nuclear modification factor in p-Pb collisions at the LHC“, **Impact factor: 6.111***
3. JHEP 1507 (2015) 051, ALICE Collaboration (B.Abelev et al.), *„Inclusive, prompt and non-prompt J/ψ production at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV“, **Impact factor: 6.111***
4. Phys.Lett.B743 (2014), ALICE Collaboration (B.Abelev et al.), *„Centrality, rapidity and transverse momentum dependence of J/ψ suppression in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV“, **Impact factor: 6.131***
5. JHEP 1506 (2015) 190, ALICE Collaboration (B.Abelev et al.), *„Elliptic flow of identified hadrons in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV“, **Impact factor: 6.111***
6. Int.J.Mod.Phys.A29 (2014) 1430044, ALICE Collaboration (B.Abelev et al.), *„Performance of the ALICE Experiment at the CERN LHC“, **Impact factor: 1.086***
7. Phys.Lett.B718 (2012) 295, ALICE Collaboration (B.Abelev et al.), *„Inclusive J/ψ production in pp collisions at $\sqrt{s}=2.76$ TeV“, **Impact factor: 4.569***

8. JHEP 1211 (2012) 065, ALICE Collaboration (B.Abelev et al.)
*„Measurement of prompt J/ψ and beauty hadron production cross sections at mid-rapidity in pp collisions at $\sqrt{s}=7$ TeV“, **Impact factor: 5.618***
9. Phys.Lett. B712 (2012) 165, ALICE Collaboration (B.Abelev et al.),
*„ J/ψ production as a function of charged particle multiplicity in pp collisions at $\sqrt{s}=7$ TeV“, **Impact factor: 4.569***
10. Phys.Lett. B704(2011) 442, ALICE Collaboration (K.Aamodt et al.),
*„Rapidity and transverse momentum dependence of inclusive J/ψ production in pp collisions at $\sqrt{s}=7$ TeV“, **Impact factor: 3.955***
11. Phys.Lett.B687 (2010) 36, BRAHMS Collaboration, „Kaon and Pion production in central Au+Au collisions at $\sqrt{s_{NN}}=62.4$ GeV“, **Impact factor: 5.255**
12. Comput.Phys.Commun. 180(2009)779, I.P.Lokhtin, L.V.Malinina, S.V.Petrushanko, A.M.Snigirev, I.Arsene, K.Tywoniuk, „Heavy ion event generator HYDJET++ (HYDrodynamics plus JETs)“, **Impact factor: 2.077**
13. J.Phys.G35 (2008) 054001, N.Armento et al., „Heavy Ion Collisions at the LHC – Last Call for Predictions“, **Impact factor: 5.270**
14. Phys.Rev.C78 (2008) 014907, L.V.Bravina, I.Arsene, M.S.Nilsson, K.Tywoniuk, E.E.Zabrodin, J.Bleibel, A.Faessler, C.Fuchs, M.Bleicher, G.Bureau, H.Stocker, „Microscopic models and effective equation of state in nuclear collisions at FAIR energies“, **Impact factor: 3.124**
15. Phys.Lett.B660 (2008) 176, I.Arsene, L.Bravina, A.B.Kaidalov, K.Tywoniuk, E.Zabrodin, „Coherent J/ψ production: A novel feature at LHC?“, **Impact factor: 4.034**
16. Phys.Rev.C77(2008) 014903, N.S.Amelin, R.Lednicky, I.P.Lokhtin, L.V.Malinina, A.M.Snigirev, Iu.A.Karpenko, Yu.M.Sinyukov, I.Arsene, L.Bravina, „Fast hadron freeze-out generator. Part II. Noncentral collisions“, **Impact factor: 3.124**
17. Phys.Lett.B657 (2007) 170, K.Tywoniuk, I.Arsene, L.Bravina, A.Kaidalov, E.Zabrodin, „Gluon shadowing in the Glauber-Gribov model at HERA“, **Impact factor: 4.189**
18. Phys.Rev.C75 (2007) 034902, I.C.Arsene, L.V.Bravina, W.Cassing, Yu.B.Ivanov, A.Larionov, J.Randrup, V.N.Russkikh, V.D.Toneev, G.Zeeb, D.Zschesche, „Dynamical phase trajectories for relativistic nuclear collisions“, **Impact factor: 3.302**

*) As a member of BRAHMS and ALICE Collaborations I am on the list of authors for 12 papers on behalf of BRAHMS and 114 papers on behalf of ALICE. The list above contains only those papers where I am one of the main authors (i.e. writing the paper and contributing to the data analysis).

PROCEEDINGS TO INTERNATIONAL CONFERENCES

1. J.Phys.Conf.Ser. 426 (2013) 012023, I.Arsene for the ALICE Collaboration, „ J/ψ Production in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV“, proceeding to FAIRNESS 2012
2. Nucl.Phys.A 904 (2013)623, I.Arsene for the ALICE Collaboration, „ J/ψ nuclear modification factor at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV“, proceedings to QM2012, **Impact factor: 2.499**
3. arXiv:1206.2461, I.Arsene for the ALICE Collaboration, „Charmonium production in pp collisions with ALICE“, proceeding for DIS2012
4. J.Phys.G36 (2009) 064004, I.Arsene for the BRAHMS Collaboration, „Centrality and rapidity dependence of particle ratios in Au+Au and Cu+Cu collisions at $\sqrt{s_{NN}}=62.4$ GeV“, proceedings to SQM2008, **Impact factor: 2.124**

5. J.Phys. G35 (2008) 104056, I.Arsene for the BRAHMS Collaboration, „Rapidity dependent K/pi ratios in Au+Au collisions at $\sqrt{s_{NN}}=62.4$ GeV“, proceedings to QM2008, **Impact factor: 5.270**
6. Phys.Part.Nucl. 39 (2008) 1082, I.Arsene for the BRAHMS Collaboration, „BRAHMS Collaboration results for relativistic heavy ion collisions“,
7. Int.J.Mod.Phys. E16 (2007) 2035, I.Arsene for the BRAHMS Collaboration, „Strangeness production in Au+Au reactions at $\sqrt{s_{NN}}=62.4$ GeV“, proceedings to QM2006, **Impact factor: 0.684**
8. Acta Phys.Slov. 56 (2006) 21, I.Arsene for the BRAHMS Collaboration, „Rapidity dependent particle production in Au+Au collisions at $\sqrt{s_{NN}}=62.4$ GeV“, proceedings to QM2005, **Impact factor: 0.647**

Oslo, March 2016