

Curriculum Vitae

Surname: Bagaturia
First name: Iuri

Citizenship: Georgia
Nationality: Georgian
Civil Status: Married, 2 children
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Education:

1971 Graduate school in Tbilisi, Georgia
1976 Physics diploma at (TSU), Georgia (USSR)
1976-79 Ph.D. Student, Tbilisi State University
1995 Ph.D. from Tbilisi State University, Georgia
Degree: Physicist

Positions:

2010 – Present Associate professor - Ilia State University. Tbilisi, Georgia.
2014 – Present Main researcher – Georgian Technical University. Tbilisi, Georgia.
2010 – 2015 Senior scientist - Andronikashvili Institute of Physics. Tbilisi, Georgia.
01.06.2012-
01.12.2012 Head of group - National Examination Center. Georgia.
01.11.2011-
01.06.2012 Consultant - Teacher Professional Development National Center, Georgia.
2003 – 2010 Scientific researcher - University of Heidelberg, Germany
1999 – 2003 Guest scientist - DESY, Germany
1976 – 2008 Assistant/ junior scientist/ scientist/ senior scientist - High Energy Physics
Institute at the Tbilisi State University.

Projects:

2012 – Present Member of the CMS experiments Muon group (CERN, Switzerland).
Development and testing new type of iRPC chambers
2003 - 2010 Member of the LHCb experiment (CERN, Switzerland. Pys. Institute,
University of Heidelberg, Germany) Development, production, testing and
installing large drift chamber modules for the outer tracking system).
1999 – 2003 Participation in the HERA-B experiment (DESY, Germany). Upgrade
Tracking System - large honeycomb drift chambers and micro-strip gaseous
chamber with gas electron multiplier foils, data taking).

- 1993-1998 Participation in the Pion-Beta Decay experiment (PSI, Switzerland). Development of experiment's project, treatment, preparation and testing of pure CsI electromagnetic calorimeter modules.
- 1989-1997 Member of the Muonium-Antimuonium oscillation experiment (PSI Switzerland). Design, assembling, testing and improving of pure CsI detectors, data taking and analysis).
- 1978-1990 Member of the PROZA collaboration (IHP, JINR, TSU). Study of Polarization effects in the pion-proton scattering (Assembling and testing of lead glass electromagnetic calorimeter, data taking and analysis).
- 1977-1984 Participation in the POLEX projects (TSU, JINR). Construction and production of large MWPC.

Total publications: 153

Including:

1. **Measurement of the $B^0_s \rightarrow \mu^+ \mu^-$ decay properties and search for the $B^0 \rightarrow \mu^+ \mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV**
[CMS](#) Collaboration
 Published in: Phys.Lett. B 842 (2023) 137955
 e-Print: 2212.10311 [hep-ex]
2. **Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
[CMS](#) Collaboration
 Published in: JHEP 07 (2022) 067
 e-Print: 2202.06075 [hep-ex]
3. **Resistive plate chambers for 2013-2014 muon upgrade in CMS at LHC**
[S. Colafranceschi \(CERN\), R. Chudasama, L.M. Pant, A.K. et al.](#). 2014. 9 pp.
 Published in **JINST 9 (2014) 10, C10033**
 Conference: [C14-02-23.2 Proceedings](#)
4. **Performance of the LHCb Outer Tracker**
 LHCb Outer Tracker group collaboration (R. Arink et al.) Nov 15, 2013. 30 pp.
 Published in JINST 9 (2014) 01002
 LHCb-DP-2013-003
5. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC.**
[CMS](#) Collaboration ([Serguei Chatrchyan \(Yerevan Phys. Inst.\) et al.](#)). Jul 2012.
 Published in **Phys.Lett. B716 (2012) 30-61**
 CMS-HIG-12-028, CERN-PH-EP-2012-220
6. **Ageing in the LHCb outer tracker: Phenomenon, culprit and effect of oxygen.**
[S. Bachmann, Y. Bagaturia \(Heidelberg U.\), M. Blom, L. Ceelie, D. van Eijk \(NIKHEF, Amsterdam\), Ch. Farber, Ch. Faerber, T. Haas \(Heidelberg, Max Planck Inst.\), I. Mous \(NIKHEF, Amsterdam\), A. Nawrot \(Warsaw, Inst. Nucl. Studies\) et al.](#). 2010. 4 pp.
 Published in **Nucl.Instrum.Meth. A617 (2010) 202-205**
 Prepared for Conference: [C09-05-24.1](#)

7. **The straw tube technology for the LHCb outer tracking system.**

[S. Bachmann et al.](#) 2004. 4 pp.

Prepared for 10th Vienna Conference on Instrumentation Vienna, Austria, 16-21 Feb. 2004.

Published in **Nuclear Instruments and Methods. A535: 171-174, 2004**