Georgian National Academy of Sciences

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Personal Data (CV)

Surname	Kekelia	First Name	Besik
Address (work)	4 Gr. Peradze Street, Tbilisi	Date and place of birth	2.01.1984; Martvili
Citizenship	Georgia	Contact phone number	599395806
E-mail	bkekelia@cern.ch		

1. Education

Institution	Learning Time
Georgian Technical University	2018-2021

2. Scientific or Academic Degree and Rank

	Title of the thesis	Date of conferment
Ph.D. thesis		
Doctoral thesis		
Academician Doctor	Study of Geometry Description Programming Methods to Simulate ATLAS Experiment	2021
Research Follow of the Academy		2024
Corresponding Member of the Academy		
Member of the Academy		

3. Knowledge of Languages

Foreign languages	Level of language proficiency (fluent, intermediate, beginning with the help of a dictionary)
English	Intermediate

4. Work Experience (Including permanent positions abroad)

Date	Institution	Position
2023 to Present	Scientific Centre of Nuclear Engineering, Georgian Technical University	Deputy Director
2012-2023	Scientific Centre of Nuclear Engineering, Georgian Technical University	Director
2009-2014	Georgian Technical University	Engineer/Designer
2005-2009	LLC CAD/CAM Engineering Center	Engineer/Designer

4.1 Teaching Activity

Date	Institution	Position
2023 to Present	Georgian Technical University Faculty of Informatics and Control Systems	Associate Professor
2023 to Present	Georgian National University	Assistant Professor
2022-2023	Georgian Technical University Faculty of Informatics and Control Systems	Lead Teacher

4.2 Work Abroad (Long-term visits to international universities or research centers)

Date	Place and Institution

5. Scientific Interests

• Engineering Support for High Energy Physics • Processing and Management of Engineering Data • 3D Modeling for Visualization Applications

6. Publications (Total number)

6

6.1 Citation Index

Scopus, h index Google Scholar, h index Web of Sciences, h index

6.2 Monographs

Years	

6.3 Principal Papers (no more than 50)

Years	

Years	
2024	Besik Kekelia, Alexander Alikhanov. Development of Methods for Simplification of 3D Geometrical Descriptions for Visualization Applications. Publishing House "Technical University", 2024. ISBN 978-9941-512-80-3
2023	Alexander Sharmazanashvili(GTU, Tbilisi), Alexander Solodkov (Serpukhov, IHEP), Archil Surmava(GTU, Tbilisi), Niko Tsutskiridze(GTU, Tbilisi), Besik Kekelia(GTU, Tbilisi) et al. A Tool for Calculation of the Radiation Parameters on the Early Stage of Simulation Geometry Development in CATIA. Proceedings of Sciences - PoS LHCP2022 (2023) 297. Mar 30, 2023.
2021	Alexander Sharmazanashvili, Besik Kekelia. Analysis of Geometry Description for Optimized Simulation Performance. GESJ: Computer Science and Telecommunications 2021, No.1(59). pp. 31-40
2021	B. Kekelia. "Formulation of Test Examples for Simulation Tasks of the ATLAS Experiment." *Georgian Engineering News*, no. 1, 2021, pp. 41–44.
2021	B. Kekelia. "Impact of Methods for Geometrical Descriptions on the Performance of the ATLAS Experiment Simulation." *Georgian Engineering News*, no. 1, 2021, pp. 36–40.
2021	A. Sharmazanashvili, A. Surmava, N. Tsutsqiridze, B. Kekelia. "Using Radiation and Absorption Lengths in Comparative Analysis of Geometrical Descriptions of the ATLAS Detector." Publishing House "Technical University," No. 2(60), 2021.

6.4 Textbooks, Additional Manuals, and other Methodological Literature and Training means

Years	

6.5 Participation in Scientific Symposiums, Conferences for the last 5 years

Years	Title	Name of Event
2024	Development of Methods for Simplification of 3D Geometrical Descriptions for Visualization Applications	International Scientific and Practical Conference "Modern Challenges and Achievements in Information and Communication Technologies – 2024"
2023	Innovative Approaches to 3D Models Processing for Visualization	Second PMBC'2023 Workshop "Partners Meeting for Better Collaboration"
2023	Geometry Development Life Cycle A Tool for Calculation of the Radiation Parameters on the Early Stage of Simulation Geometry Development in CATIA	LHCP 2022
2022	Geometry Development for the Visualization Applications	First PMBC'2022 Workshop "Partners Meeting for Better Collaboration"
2021	Implementation of X0 / Lambda Calculations in CATIA Compare Analyses	ATLAS Week
2021	Study of Programming Methods for Geometrical Descriptions for the ATLAS Experiment Simulation	Information Society and Technologies for Education Intensification – ISITE'21

7. Inventions (Author's Certificate, Patents)

Years	Name

8. International and Local Scientific grants

Years	Name

9. Scientific-Commercial Activity, Implementation

Years	Name

10. Other Activities

	Name	Years
Supervision of Theses work	Development of Methods for Simplification of 3D Geometrical Descriptions for Visualization Applications	2023-2025
Participation in International, State and Regional Programs		

11. Membership in international scientific organizations

Years	Name

12. Awards and Prizes

Date	Name of Awards, Prizes

13. Honorary Title

Date	Honorary Title