

Paper Submission Form - SAIP2025 Proceedings

Sections A, C, D, and E must be completed by all authors (including students) who submit papers. Section B is compulsory for students who submit manuscript(s).

Section A: Paper Submission Information

Paper/Abstract ID	488
Paper title	Investigation of the radiation-shielding properties of lithium-antimony-Lead-germanate glasses modified with chromium oxide
Corresponding Author Name & Surname:	Linda Mdletshe
Corresponding Author Email Address:	linda.mdletshe@gmail.com

Section B: For Students & Supervisors

Supervisor Name & Surname:	
Supervisor Email Address:	

For this paper, the supervisor must agree/disagree with the following statements.

	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission		
2. I have proof-read the manuscript		
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors		
4. I am familiar with the required manuscript format ("House Style"), and I am satisfied that this manuscript meets the criteria. I am aware that manuscripts not conforming with House Style may be desk rejected		
5. I am satisfied that the scientific content of this manuscript is of sufficient standard for it to be considered for publication in the Proceedings of the South African Institute of Physics Conference Proceedings		

Student Name & Surname: Signature: Date:

Supervisor Name & Surname: Signature: Date:

Section C: Suggested Reviewers

Obtaining the two referee reports necessary for DHET subsidy is an onerous task.

Please provide the names and contact details of three qualified South African and/or international referees. Referees should have a PhD and expertise in the relevant area of Physics. Do not recommend referees who have co-authored a work with any of the authors on the manuscript within the past five (5) years. Manuscripts without three recommended referees may be subject to desk rejection.

Suggested Reviewers in your Research Field (Both local & international)		
	Reviewer Names & Surname	Reviewer's Email Address(es)
Suggested reviewer #1	Dr. George Lowani Zimba	Zimba@fribmsu.edu
Suggested reviewer #2	Prof. Mandla Msimanga	MsimangaM@tut.ac.za
Suggested reviewer #3	Dr. Vernon Maluba	Chisapi@unza.zm

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

The radiation shielding performance of the lithium-antimony-lead-germanate glasses modified with chromium oxide remains unexplored at lower energies. Thus, the present study seeks to investigate the influence of adding chromium oxide to lithium-antimony-lead-germanate glasses within the 20 -300 keV, utilising the Phy-X/PSD simulation software. The study provides insights into the potential application of these glasses for X-ray and gamma-ray shielding.

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

The AI was only used to improve readability and language of the work.

Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	X