

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	250
Paper title	Quality Assurance for LVPS Bricks in the Phase-II Tile Calorimeter Upgrade.
Corresponding Author Name & Surname:	Vongani Chabalala
Corresponding Author Email Address:	vongani@aims.ac.za

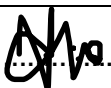
Section B: For Students & Supervisors

Supervisor Name & Surname:	Professor Bruce Mellado
Supervisor Email Address:	bruce.mellado@wits.ac.za

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	X	
2. I have proof-read the manuscript	X	
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors	X	
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	X	
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	X	

Student Name & Surname: Vongani Chabalala

Signature: 

Date: 31/07/2025

Supervisor Name & Surname: Bruce Mellado

Signature: 

Date: 31/07/25

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	Jalal Abdallah	jalal.abdallah@cern.ch
Suggested reviewer #2	Stanislav Nemecek	Stanislav.Nemecek@cern.ch
Suggested reviewer #3	Filipe Martins	filipe.martins@cern.ch

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

This paper presents a new way to check the quality of Low Voltage Power Supply (LVPS) boards used in the Phase-II upgrade of the Tile Calorimeter for the ATLAS experiment. It describes better testing methods, step-by-step checks, and careful evaluations designed to meet the high standards required for the upgraded system. This work adds useful information to the field of electronics used in large physics experiments.

Please see the [Author Guidelines for the AI use policy](#).

How was AI used in the generation of this manuscript?

We used artificial intelligence tools, like ChatGPT (from OpenAI), only to help improve the grammar, wording, and clarity of the text. These tools helped make the writing easier to read, but they were not used to create any scientific content, analyze data, or draw conclusions. All research, experiments, data analysis, and writing of the main scientific parts were done entirely by the author and co-authors.

Section E: Plagiarism

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