

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	Poster number 18
Paper title	An anomaly in a formula to calculate the refractive index of Al _x Ga _{1-x} As
Corresponding Author Name & Surname:	Japie Engelbrecht
Corresponding Author Email Address:	Japie.Engelbrecht@mandela.ac.za

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	Koos Terblans	terblansjj@ufs.ac.za
Suggested reviewer #2	Hendrik Swart	swarthc@ufs.ac.za
Suggested reviewer #3	Jackie Nel	jackie.nel@up.ac.za

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

The article investigates the anomaly that arises if the "wrong" expression for the Al mole fraction x of $\text{Al}_x\text{Ga}_{1-x}\text{As}$ is used to determine the refractive indexes of a thin film of $\text{Al}_x\text{Ga}_{1-x}\text{As}$, as the calculation yields different refractive indexes than the correct expression, but yields the same epilayer thickness to the 2nd decimal place.

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

How was AI used in the generation of this manuscript?

AI was not used in the generation of this manuscript.

Section E: Plagiarism

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