

# 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	055
Paper title	Statistical discrimination of uranium ore concentrate using trace element signature: Developing nuclear forensic fingerprint
Corresponding Author Name & Surname:	Liteboho Ntsohi
Corresponding Author Email Address:	liteboho.ntsohi@students.wits.ac.za

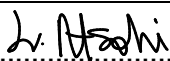
## Section B: For Students & Supervisors

Supervisor Name & Surname:	Prof Iyabo Usman
Supervisor Email Address:	iyabo.usman@wits.ac.za

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

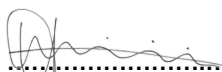
	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission	✓	
2. I have proof-read the manuscript	✓	
3. I am satisfied 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: Liteboho Ntsohi

Signature: 

Date: 28/07/2025

Supervisor Name & Surname: Prof Iyabo Usman

Signature: 

Date: 28/07/2025

## 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	Prof Manny Mathuthu	Manny.Mathuthu@nwu.ac.za
Suggested reviewer #2	Dr Samuel John	samjoh2014@gmail.com
Suggested reviewer #3	Dr Lehlohonolo Lisema	lehlohonolo.lisema@wits.ac.za

The study outlined in the manuscript ishows signtific novelty in that it combined complementaru statistcal mentods to create an approach to forensic signature

The study provided new evidence on which trace elements carry discriminatory power for uranium sources in Africa and lays

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

Focuses on understudied uranium mine sites in Africa

Outlines a new approach to signature interpretation that combines complementary statistical methods

Provides evidence on new trace elements that have discriminatory ability for uranium sources in Africa

Foundation to regional forensic database/library

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

AI was used improve readability and language

Section E: Plagiarism

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