

# 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	197
Paper title	Numeric exploration of Non-trivial emergent phenomena in Quark-Gluon Plasma
Corresponding Author Name & Surname:	Nia O'Callaghan
Corresponding Author Email Address:	OCLJON001@myuct.ac.za

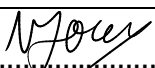
## Section B: For Students & Supervisors

Supervisor Name & Surname:	W A Horowitz
Supervisor Email Address:	wahorowitz@gmail.com

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: Nia O'Callaghan

Signature: 

Date: 31/07/2025

Supervisor Name & Surname: W A Horowitz

Signature: 

Date: Jul 31, 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	Vishnu Jejjala	vishnu.jejjala@gmail.com
Suggested reviewer #2	Jaco van Zyl	jaco.vanzyl@uct.ac.za
Suggested reviewer #3	Kevin Goldstein	kevin.goldstein.wits@gmail.com

## Section D: Declaration of Novelty and Use of AI

### How is this submitted manuscript scientifically novel?

This manuscript outlines the generation and comparison of numerical solutions for the trajectory of point particles in  $AdS_3$ –Schwarzschild spacetime via different methods. Such a comparison of methods has not been previously explored.

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

### How was AI used in the generation of this manuscript?

The use of AI in this manuscript is limited to the rewording and condensing of already written content, for the sake of brevity and readability.

No novel content has been generated by the use of AI, and all outputs from AI have been thoroughly checked for accuracy.

## Section E: Plagiarism

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