



# Evaluation of Field Research Station Systems in South Africa: A Randomized Trial on Adoption Rates

Selukwe Selomile<sup>1</sup>, Mpho Mokgadi<sup>2</sup>, Kgosho Mogobele<sup>1,3</sup>, Sifiso Nkonto<sup>4</sup>

<sup>1</sup> Department of Advanced Studies, Rhodes University

<sup>2</sup> Department of Interdisciplinary Studies, University of the Western Cape

<sup>3</sup> University of the Western Cape

<sup>4</sup> University of Fort Hare

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**Correspondence:** [sselomile@yahoo.com](mailto:sselomile@yahoo.com)

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## Author notes

*Selukwe Selomile is affiliated with Department of Advanced Studies, Rhodes University and focuses on Physics research in Africa.*

*Mpho Mokgadi is affiliated with Department of Interdisciplinary Studies, University of the Western Cape and focuses on Physics research in Africa.*

*Kgosho Mogobele is affiliated with University of the Western Cape and focuses on Physics research in Africa.*

*Sifiso Nkonto is affiliated with University of Fort Hare and focuses on Physics research in Africa.*

## Abstract

Field research stations in South Africa are essential for advancing physics knowledge. However, their adoption rates vary significantly across different regions. A random assignment design was employed to assess the impact of various factors influencing the adoption of these stations. Data were collected from multiple stations representing diverse geographic regions. In the tested region, 72% of the stations showed increased activity post-intervention compared to baseline levels, indicating a significant boost in operational efficiency and data collection. The randomized trial provided valuable insights into the effectiveness of different station management strategies. Further research is recommended to explore other potential factors affecting adoption rates and to implement sustainable solutions for long-term success. Field Research Stations, Adoption Rates, Randomized Trial, Physics, South Africa The empirical specification follows  $Y = \beta_{0+\beta}^T X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Sub-Saharan, randomized trials, observational methods, geographical information systems, epistemology, qualitative analysis, geographic variation*

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