Unathi K. Skosana

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EDUCATION

MSc. Quantum Computing and Quantum Information, Stellenbosch University, 2020-

Hons. Theoretical Physics *cum laude*, Stellenbosch University, 2019

BSc. Theoretical Physics *cum laude*, Stellenbosch University, 2018

PREPRINTS N' PUBLICATIONS

Unathi Skosana and Mark Tame "Demonstration of Shor's factoring algorithm for N = 21 on IBM quantum processors". In: *Sci Rep* (Aug 2021). DOI: 10.1038/10.1038/s41598-021-95973-w. arXiv: 2013.13855 [quant-ph]

Unathi Skosana and Mark Tame "On the advantages of relative Toffoli gates". Submitted to *SAIP2021* conference 7011.3773

TALKS N' POSTERS

2021 "On the advantages of relative phase Toffolis" SAIP2021. 28 July

2019 "Modeling of Measurement-based Quantum Computing on IBM Q Experience Devices" Quantum Africa V conference. 5 Sept

2019 "Modeling of Measurement-based Quantum Computing on IBM Q Experience Devices" WitsQ Summer School. 10 Dec

GRANTS N' RECOGNITION

2020- Masters Research Grant, CSIR

2020 Recognized as a undergraduate top achiever by the physics department at Stellenbosch University

2019 Merit Bursary, Stellenbosch University

2018 Undergraduate Fund, SKA Undergraduate Programme

SERVICE

2018- Teaching assistant for physics 114/144 at Stellenbosch University