

SAIP2021

Monday 26 July 2021

Theoretical and Computational Physics: Session 1 - Potchefstroom Campus (11:30-13:00)

-Conveners: Thomas Konrad

time	[id] title	presenter
11:30	[41] Generating function approach to open quantum walks	Mr ZUNGU, Ayanda
11:45	[89] Generation of GHZ states via projected squeezed states	Mr ALEXANDER, Byron
12:00	[344] Imaging with moving detectors	BORNMAN, Nicholas
12:15	[249] Three-party reference frame independent quantum key distribution with an imperfect source	SEKGA, Comfort
12:30	[42] Solving the Schrödinger equation for Hydrogen Molecular ion (H ₂ ⁺) using Sinc functions and employing both Python and Numpy	EZENWACHUKWU, OBIAGELI LOVENDA
12:45	[159] Motor Protein Transport on Cytoskeleton Networks	DEMPERS, Nadine

Theoretical and Computational Physics: Session 2 - Potchefstroom Campus (15:00-16:30)

-Conveners: Alan Cornell

time	[id] title	presenter
15:00	[306] Factorization in Heavy Ion Collisions	HOROWITZ, William
15:15	[273] B and D meson Suppression and Azimuthal Anisotropy in a Strongly Coupled Plasma at $\sqrt{s_{NN}}=5.5$ TeV	NGWENYA, Blessed
15:30	[23] Fitting the relic density with contributions from dimension-five operators	MASON, Lara
15:45	[69] Towards discrimination and improved modelling of dark-sector showers	SINHA, Sukanya
16:00	[80] Constraints on Dark Matter Models using current LHC Measurements	WILSON, Danielle
16:15	[115] Random Number Generation using IBM Quantum Processors	STRYDOM, Conrad

Tuesday 27 July 2021

Theoretical and Computational Physics: Session 3 - Potchefstroom Campus (11:30-13:00)

-Conveners: William Horowitz

time	[id] title	presenter
11:30	[310] Cosmological Models in Gravitational Scalar-Tensor Theories	ABDULRAHMAN, Heba
11:45	[178] Bianchi Type V Model In R^n Gravity: A Dynamical System Approach	TSABONE, Thato
12:00	[39] Quasinormal modes in the large angular momentum limit: an inverse multipolar expansion analysis	CHRYSOSTOMOU, Anna
12:15	[270] Quantum Entanglement and relativistic quantum mechanics.	HARTMAN, Jonathan
12:30	[269] An alternative test of Bell's theorem?	KONRAD, Thomas
12:45	[261] Comment on the Quantum Supremacy Claim by Google	SEGIREDDY, Anirudh Reddy

Theoretical and Computational Physics - Potchefstroom Campus (15:00-16:30)

Thursday 29 July 2021

Theoretical and Computational Physics - Potchefstroom Campus (11:30-13:00)

Theoretical and Computational Physics - Potchefstroom Campus (15:00-16:30)

Friday 30 July 2021

Theoretical and Computational Physics - Potchefstroom Campus (11:30-13:00)