SAIP2023

Tuesday 04 July 2023

Photonics: Photonics in Biology (10:00-10:40)

-Conveners: Pieter Neethling

time [id] title		presenter
10:00	[177] Curcumin an emerging natural photosensitiser for lung cancer photodynamic therapy	KAH, Glory
10:20	[169] Evaluation of Anticancer Effect of Punica granatum Extract in Combination of Hypericin Mediated Phototoxicity on MCF-7 Cells	FAKUDZE, Nosipho

Photonics: Quantum Aspects (11:00-12:00)

-Conveners: Gurthwin Bosman

time [id] title	presenter
11:00 [298] Quantum Algorithms on Classical Optical Vector-Matrix Multipliers	KONI, MWEZI
11:20 [50] Quantum random number generation using an on-chip linear plasmonic beamsplitter	STRYDOM, Conrad
11:40 [306] The Uncertainty Principle with a Twist	GOUNDEN, Neelan

Photonics: Quantum phenomena (14:00-15:20)

-Conveners: Andrew Forbes

time	[id] title	presenter
	[349] Modal Characterization of a Few-Mode Fiber based on a Wavelength and Polarization Entangled Photon Source	Mr YOUSSEF, M
14:20	[308] Studying quantum-like light from simple laser systems	MKHUMBUZA, Light
14:40	[323] Uncovering the spatial distribution of entanglement using vectorial light	PETERS, Cade Ribeiro
15:00	[299] Is classical entanglement of a vector beam fragile or robust?	KONI, MWEZI

SAIP2023 / Programme Wednesday 05 July 2023

Wednesday 05 July 2023

Photonics: Sensing (09:40-10:40)

-Conveners: Tjaart Krüger

time	[id] title	presenter	
	[99] Quantum Phase-based Plasmonic Biosensing for Enhanced COVID-19 Detection	Dr MPOFU, Kelvin	
10:00	[129] Majority Voting Algorithm for TB Detection: Machine Learning Approach	Mr TSEBESEBE, Nkgaphe	
10:20	[273] Photonic crystal-based biosensing for TB detection	Mr MAPHANGA, Charles	

Photonics: Non Specialist Session (11:00-12:00)

-Conveners: Andrew Forbes

time [ia] title		presenter	
11:00	[353] From quantum quirks to microscopic wonders: journey into the future of imaging with entangled photons!	Dr DEFIENNE, Hugo	
11:40	[302] Pumping up the frequency conversion of structured light	SINGH, Sachleen	

Photonics: Biological applications (14:00-15:00)

-Conveners: Pieter Neethling

time [id] title	presenter
14:00 [153] Optical Tweezers Towards Single-Cell Analysis	DU PLESSIS, LeRoi
14:20 [176] Real-time feedback-driven single-particle tracking spectroscopy of LHCII	VAN HEERDEN, Bertus
14:40 [187] Modelling linear spectra of plant light-harvesting complexes	NÖTHLING, Johan

Photonics: Spectroscopy, communication and beam shaping (15:20-17:40)

-Conveners: Mitchell Cox

time	[id] title	presenter
15:20	[155] Solution phase photodegradation studies of PCDTBT	Ms EVERTS, Kelsey
15:40	[282] Mid infrared gas absorption spectroscopy using a photonic chip-based supercontinuum	BARICHOLO, Peter
16:00	[314] Investigating mode diversity with combinations of Hermite-Gaussian and Orbital Angular Momentum modes	DROZDOV, Alice
16:20	[316] Beyond doughnuts and mugs, tying photons together	ORNELAS, Pedro
16:40	[320] Threading a Laser Through the Eye of a Needle 2.0: Evaluating Coupling Performance of Telecom Fibre Cables for use in a Cost-Effective Free Space Optical (FSO) System under Atmospheric Turbulence.	Mr IGA, Fortune
17:00	[364] Photonics Division Meeting	NEETHLING, Pieter

SAIP2023 / Programme Thursday 06 July 2023

Thursday 06 July 2023

Photonics (09:40-10:40)

Photonics (11:00-12:00)

Photonics (14:00-15:20)

SAIP2023 / Programme Friday 07 July 2023

Friday 07 July 2023

Photonics (09:40-10:40)

Photonics (11:00-12:20)