The 3rd African Conference on Fundamental and Applied Physics (ACP2023)

Monday 25 September 2023

Parallel Session 1: Heavy Ion/ Particle Physics - Regency Room (16:00 - 17:30)

-Conveners: Benard Mulilo; William Horowitz

time	[id] title	presenter
	[230] Measurements of heavy-flavour production in pp collisions at \sqrt{s} = 13 TeV with the ALICE detector	SHABA, Tebogo Joyce
16:15	[72] A Light shed on Lepton Flavor Universality in B meson decays	Dr PATNAIK, Sonali
	[173] Measurement of the Energy Response of the ATLAS Calorimeter to Charged Pions from tau-lepton Decays in Run 2 Data	NOURY, Meryem
16:45	[102] Search for axions in H \rightarrow aa \rightarrow 4y decays at the LHC's ATLAS experiment	Ms IMAM, Hajar
17:00	[109] LA-CoNGA physics: an open science education collaboration between Latin America and Europe for High Energy Physics	CAMACHO TORO, Reina Coromoto
	[190] Measurement of the electroweak cross-section for a same-sign W boson pair produced in association with two jets using 139/fb of ATLAS data	MWEWA, Chilufya

Wednesday 27 September 2023

<u>Parallel Session 1: Computing/ Nuclear Physics</u> - Regency Room (16:00 - 18:00)

-Conveners: Mlungisi Nkosi; Tshiamo Motshegwa

time	[id] title	presenter
16:00	[77] Investigating octupole correlations in Xe nuclei with mass A < 120	CHAMOLI, Sanjay Kumar
	[114] Enhancing Reactor Performance: Computational Study on Optimizing Beryllium Shim Plates in the Nigerian Research Reactor-1	SOLOMON, Dennis
16:30	[118] Isospin breaking in the upper fp-shell nuclei	ZIMBA, George Lowani
	[150] Use of a High Resolution ΔE -E Gas-Ionisation Detector for the 6Li + 10B System at ELAB = 20 MeV	Dr OGANA JOHN, Samuel Odumu
	[179] Indoor exposure prediction through Monte Carlo Simulation Geant4 : Case of primary schools of the Doukkala-Abda Region	Ms ETTOUFI, Asmae
	[34] Indoor radon and ambient equivalent dose measurements using a locally manufactured low-cost smart electronic device and validation with reference instruments	Dr JACOB, Mbarndouka Taamté

Thursday 28 September 2023

Parallel Session 1: Materials Physics/ Medical Physics/ Computing - Regency Room (16:00 - 17:30)

-Conveners: David Levitt; Lalla Btissam Drissi

time	[id] title	presenter
	[145] Electronic and magnetic properties of Selected TM doped MoS2 monolayer: A DFT calculation	ABAVARE, Eric K. K.
	[153] Enhanced removal of Methyl red dye from aqueous solutions using Zirconium oxide impregnated Royal palm fiber Activated carbon (ZrO2-RPAC)	Dr DANU, Bernice Yram
16:30	[178] High-quality Chemical Vapour Deposition (CVD) produced graphene.	CHAUKE, Hleko
16:45	[23] Performance of a Bifacial Solar Module Under Different Backgrounds	Ms KATUNGE, Gloria
	[5] Assessment of cystamine's radioprotective ability under high dose-rate irradiation: a Monte Carlo multi-track chemistry simulation study	Mr SAMAFOU, Penabei
	[127] Computational fluid dynamics modelling of the infectiousness of airborne droplets.	Dr RALIJAONA, Mbolahasina