## First Pan-African Astro-Particle and Collider Physics Workshop

## Wednesday 23 March 2022

## Parallel Session V, Collider - Experiment (14:00-18:25)

-Conveners: Nadir Hashim; Shimaa AbuZeid

time	[id] title	presenter
14:00	[29] Search for Higgs boson pair production in the two bottom quarks plus two photons final state in \$pp\$ collisions at \$\sqrt{s}\$ = 13 TeV with the ATLAS detector	BELFKIR, Mohamed
14:15	[49] Higgs CP measurement with EFT model in lepton collider	SHA, qiyu
14:30	[39] Dark photon searches with the ATLAS detector at the LHC	EL JARRARI, Hassnae
14:45	[80] CP-even Heavy Higgs boson at HL-LHC	Ms BESHR, Aya I.
15:00	[76] Charged Higgs boson production via pp $\rightarrow$ H $\pm$ bj at the LHC	OUCHEMHOU, Mohamed
15:15	[66] The off-shell Higgs production and measurement of its decay width with the ATLAS experiment	Mr MOHAMMED, Abdualazem
15:30	[47] Minimum bias simulation of parasitic collisions	EZZARQTOUNI, Sanae Prof. BENCHEKROUN, Driss
15:45	Coffee Break	
16:15	[60] The Spin Physics Detector at NICA	Dr EL-KHOLY, Reham
16:30	[82] Higgs boson couplings at muon collider	BUONINCONTRI, Laura
16:45	[19] The search for resonances with topological requirements with the Zy final state at the LHC	CHOMA, Nalamotse Joshua
17:00	[16] The Use of a Variational Autoencoder in the Search for Resonances at the LHC	STEVENSON, Finn
17:15	[13] Searches for heavy scalar resonance through hadronic jet reconstruction at electron-proton colliders	MALWA, Elias
17:30	[6] The use of GANs in the search for new resonances at the LHC using semi-supervised machine learning techniques	LIEBERMAN, Benjamin
17:45	[15] Search for Higgs boson pair production in the bbWW* channel with the ATLAS detector	HIDAOUI, Mourad