



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

## Tuesday 22 March 2022

### Parallel Session IV, Collider (14:00-18:00)

-Conveners: Rachid Benbrik; Shoaib Munir

time	[id] title	presenter
14:00	[107] Light charged Higgs boson in $H^{\pm} \mu^{\pm} h$ associated production at the LHC	KRAB, Mohamed
14:15	[20] New charged Higgs boson discovery channel at the LHC	BOUKIDI, Mohammed
14:30	[26] Full next-to-leading-order corrections to the Higgs strahlung process from electron-positron collisions in the Inert Higgs Doublet Model	ABOUABID, hamza
14:45	[44] Neutrino masses in the left right symmetric model	OUCHEN, Mustapha
15:00	[36] Leptogenesis, fermion masses and mixings in a flavored SUSY SU(5) GUT	Dr LOUALIDI, Mohamed Amin
15:15	[57] On 't Hooft lines and Lax operators of $SO_{2N}$ type	Ms BOUJAKHROUT, Youssef
15:30	Coffee Break	
16:00	[55] Weinberg's factor from helicity constraint	ANDRIANTSARAFARA, Fanomezantsoa Arlivah
16:15	[9] the Mu2e experiment	HAPPACHER, fabio
16:30	[8] The Production of a Singlet Scalar at Future $e^+ e^-$ Colliders	Mr MULAUDZI, Anza-Tshilidzi
16:45	[18] Explaining a class of multi-lepton excesses at the LHC with a heavy pseudo-scalar of a 2HDM+SS model	Dr SWAIN, Abhaya Kumar
17:00	[50] Searches for new physics using the top-quark pair invariant mass distribution in proton-proton collisions at $\sqrt{s}=13$ TeV	BATLAMOUS, Souad
17:15	[73] The comparison study of the ratio between $\overline{\Gamma}_t$ and $\overline{\Gamma}_b$ in the $\mu^+\mu^-$ channel at 13 TeV using the ATLAS detector	MATHAHA, Thuso
17:30	[75] Jet substructure and boosted top quark jet tagging	BENHAMIDA, Azzeddine
17:45	[61] Measurements of W boson properties at $\sqrt{s} = 5$ and 13 TeV with the ATLAS detector at the LHC.	ATMANI, hicham