



# AFLS2024

## Monday 18 November 2024

### AfPS Contribution (11:30-12:30)

-Conveners: Ahmadou Wague

time	[id] title	presenter
11:30	[179] Measurement and Analysis of Physicochemical Properties of Honey Obtained from Birnin-Kebbi Market	Mr SANI, Garba Danjumma
11:45	[180] Using Refractometer to Determine the Sugar Content in Soft Drinks Commonly Consumed In Birnin Kebbi, Nigeria	SANI, Garba Danjumma
12:00	[213] Klein-Gordon energy states of SCP under Plasma medium	KHALED, fatma zohra
12:15	[230] Confined Hydrogen-like Atoms in Plasma Environment	MOUMNI, Mustafa

### AfPS Contribution (15:00-15:30)

-Conveners: Ahmadou Wague

time	[id] title	presenter
15:00	[184] Optical Spectral and Lasing Potentials Analysis of Dysprosium and Samarium Ions Co-doped Strontium Magnesium Borate Glass Matrix	Dr ICHOJA, Andrew
15:15	[185] Quantum teleportation in a two-qubit quantum system in the presence of intrinsic decoherence	Dr BENABDALLAH, FADWA

### AfPS Contribution (16:30-17:30)

-Conveners: Ahmadou Wague

time	[id] title	presenter
16:30	[193] Synthesis, Opto-structural and Electrical Characterisations of Nd <sub>2</sub> O <sub>3</sub> -coated Silicon Nanoparticles	MEFOUED, Amine
16:45	[192] Investigation into the geological radiation levels and evaluation of hazard parameters in soil and rock specimens taken from mining sites across North-Eastern Nigeria.	Mr NAFIU, Musa Prof. SINGH, Shiv Kumar Dr SIMON, John
17:00	[196] Simulation of Direct and Indirect X-ray Detectors Using Geant4: Advantages of Monte Carlo Methods	BENKABDI, Charaf Eddine
17:15	[206] Particle-in-cell simulation of a Laser-Wakefield based High gradient accelerator	Dr DASH, Radhakanta

# Tuesday 19 November 2024

## AfPS Contribution (10:00-10:30)

-Conveners: Lawrence Norris

time	[id] title	presenter
10:00	[197] Computational study of environmentally friendly CsSnBr <sub>3</sub> perovskite solar cells has achieved a power conversion efficiency of 31.62%.	KHESWA, Vincent

## AfPS Contribution (12:00-12:30)

-Conveners: Lawrence Norris

time	[id] title	presenter
12:00	[239] The synthesis of pyrroles using enaminone precursors	HLONGWANE, Kwanele
12:15	[201] Crystal packing and lattice theory of N, N'-bis(4-chlorophenyl)thiourea N, N- dimethylformamide	ODULARU, Ayodele Temidayo

## AfPS Contribution (17:00-17:30)

-Conveners: Lawrence Norris

time	[id] title	presenter
17:00	[202] Investigation of Microstructural Changes and Mechanical Behavior in Silicon Carbide under 158 MeV Xenon Ion	Mr MASHABELA, TSHEGOFATSO
17:15	[233] The influence of chromium and molybdenum elements on the microstructure of the high manganese steel grade.	Mr TOGA, Mainford

# Thursday 21 November 2024

## AfPS Contribution (15:35-18:00)

-Conveners: Ahmadou Wague; KAYODE DADA

time	[id] title	presenter
16:00	[276] Confined Hydrogen-like Atoms in Plasma Environment	MOUMNI, Mustafa
16:15	[278] Defect levels induced by defect-complexes in Ge for enhanced Ge-based device performance	IGUMBOR, Emmanuel
16:30	[277] Crystal packing and lattice theory of N, N'-bis(4-chlorophenyl)thiourea N, N- dimethylformamide	ODULARU, Ayodele Temidayo
16:45	[280] Klein-Gordon energy states of SCP under Plasma medium	KHALED, fatma zohra
17:00	[279] Modelling the infectiousness of Influenza virus, mycobacterium tuberculosis and Covid-sars.	IGUMBOR, Emmanuel