

2022 AfLS, AfPS Conference

Monday 14 November 2022

Partner: African Physical Society (09:30-12:00)

time	[id] title	presenter
10:00	[1] Compatibility of Transformer Insulating Paper (Kraft paper) with Nanofluid prepared from Neem Oil Ester	Mr OPARANTI, SAMSON OKIKIOLA
10:30	[3] (2+1)D Graphene in a magnetic field in Non-Commutative Space	Mr SEK, LAKHDAR
11:00	[4] Simulation of X-ray tubes using Geant4 Monte Carlo toolkit	IDRISSI, Abdelghani
11:30	[6] Ferrimagnetic mixed Ising spin (7/2, 1/2) system: by Mean Field Theory, Exact Recursion Relations and Monte Carlo method	Dr NGANTSO, G. Dimitri

Partner: Partner - Contribution (15:00-16:00)

time	[id] title	presenter
15:00	[10] The cosmology of changing 'constants'	ABEBE, Amare
15:15	[5] Production of a Higgs boson in association with a pair of fermions in the presence of a circularly polarized laser field	OUALI, Moha OUALI, Moha
15:30	[7] Thermodynamics of Non-linear magnetic-charged AdS black hole surrounded by quintessence, in the background of perfect fluid dark matter	NDONGMO, Ragil
15:45	[21] Induced neutrino charge in a magnetized medium	CHAUBEY, Ankur

Tuesday 15 November 2022

Partner: African Physical Society (10:00-12:00)

time	[id] title	presenter
10:00	[8] NCO and OCN adsorption and decomposition study on the Ag(110) surface	BOUNGOU, Cedric Clarfeler
10:30	[9] Edge detection of lithological structures Using Analytical Signal Technique on gravity data; a case of Gombe arm of Benue Trough	OHAKWERE-EZE, Michael Mr AHMAD, Alhassan
11:00	[13] Shape evolution of even-A {112-124} ^{Sn} isotopes within RHB	EL ADRI, Mohamed
11:30	[14] Topological phases of Su-Schrieffer-Heeger alternating ladders	Dr ABDELWAHAB, Anas

Partner (17:30-19:15)

time	[id] title	presenter
17:30	[2] Environmental and human health risks assessment of potentially toxic elements content in soils of a prospective phosphate mining area in Hinda district, Republic of Congo	MOUBAKOU DIAHOU, Russel Rolphe Caroll
17:45	[16] Major, minor and trace element concentrations in leaves of Lavandula stoechas collected from Senhaja Srair region (North of morocco) by INAA and ICP-MS.	CHAKIR , EL Mahjoub Mr BOUNOUIRA, Hamid
18:00	[17] AUTOMOBILE BATTERY MONITORING SYSTEM USING ARDUINO UNO R3 MICROCONTROLLER BOARD	Mr BARASA, Ignatius
18:15	[26] Development of Networks of Low-Cost Air Quality Monitors in African Cities	Dr TCHANCHE, Bertrand
18:30	[36] ULTRASONIC BASED RADAR MAPPING SYSTEM USING MATLAB	Mr GICHURU, Rodgers Mutugi

Wednesday 16 November 2022

Partner: African Physical Society (10:00-12:00)

time	[id] title	presenter
10:00	[23] FABRICATION OF SURFACE-ENHANCED RAMAN SPECTROSCOPY SUBSTRATES USING SILVER NANOPARTICLES PRODUCED BY LASER ABLATION IN LIQUIDS	Ms ONDIEKI, Annah
10:30	[24] Transition probability and oscillator strength determination in Os ⁴⁺ by means of semi-empirical HFR+CPOL and ab initio MCDHF-RCI	Dr ENZONGA YOCA, Saturnin
11:00	[15] Fuel burnup calculations for current LEU fuel and converted HEU fuel for the Nigerian Research Reactor-1 (NIRR-1) using the WIMS-ANL computer code	Dr BALAMI, DENNIS SOLOMON
11:30	[18] Numerical Modeling and Optimization of CaZrS ₃ chalcogenide Perovskite Solar Cell by Using SCAPS-1D with theoretical efficiency approaching 20%	CHAWKI, Najwa

Thursday 17 November 2022

Partner: African Physical Society (10:00-12:00)

time	[id] title	presenter
10:00	[31] Optimized RbGeI ₃ based perovskite solar cell with efficiency exceeding 29%	Mr ALLA, Mohamed
10:30	[32] Adsorption of Br ₂ molecule on the Fe/W(110) substrate: Energetics, electronic and magnetic properties	Dr LOMANGA OKANA, Aubin Lauril
11:00	[30] The atomic and electronic structure stability of 3C-SiC/SiC interface superstructures: A DFT calculation	ABAVARE, Eric
11:30	[27] Advances in Materials Characterization and Analysis using the Powder Diffraction File	Dr KABEKKODU, Soorya

Friday 18 November 2022

Partner: African Physical Society (10:00-12:00)

time	[id] title	presenter
10:00	[35] Identification of waste plastics Using Fourier Transform Infrared Spectroscopy	OSORO, Brian
10:30	[38] Development of Smartphone-based malaria detection system	Mr OPIYO, Alphonse
11:00	[37] First-Principles Study of Magnetic Susceptibility and Field-Dependent Magneto-Optics in Antiferromagnetic Materials	KANG, Kisung
11:30	[80] Salt Tolerance in Glaberrima rice: Mechanism and approach using micro-proton induced x- ray emission techniques	TRAORE, Alassane