

63rd ANNUAL CONFERENCE OF THE SA INSTITUTE OF PHYSICS

Tuesday 26 June 2018

Poster Session 1 (15:00-17:00)

[id] title	presenter	board
[341] Enhanced Photocatalytic Activity of TiO ₂ Nanoparticles by Copper and Silver Codoping	Mr NUBI, Olatunbosun Nubi	
[348] Multi-wavelength variability and correlation studies of flaring Fermi-LAT blazars.	Mr MBONANI, Tekano	
[195] Crystal structure and thermodynamic properties of the non-centrosymmetric PrRu ₄ Sn ₆ caged compound	Mr OGUNBUNMI, Michael	
[190] Angular correlation measurements with the iThemba LABS segmented clover detector	Dr SHIRINDA, OBED	
[271] First principles studies of Palladium nanoparticles on TiO ₂ surfaces for catalytic application	Ms MAZIBUKO, Andile	
[277] Characterization of dopant levels in a III-V molecular beam epitaxial system	Prof. THERON, Chris	
[278] An open quantum systems approach to the radical pair mechanism	Ms ADAMS, Betony	
[99] Computational modelling studies of oxidation and hydration on NiS ₂ and NiAs ₂ surfaces	Mr NEMUTUDI, Bradley	
[105] Synthesis and characterization of Zn _(1-x) S:Cu _x nanoparticle thin films by using spin-coating for enhancement of UV-LEDs and Solar Cells	Mr MPHUTHI, Molise Jan	
[128] Use of machine learning techniques in high energy physics	KAR, Deepak	
[331] Ion-Implanted Polyaniline thin films for radiation sensing applications	Mr MATOME, maloba	
[91] Microstructural and Electrical Properties of Graphene-Oxide (GO) Functionalized with Gold Nanoparticles (Au: NPs)	Mr IDISI, David Omoeffe	
[93] Computerised Ionospheric Tomography (CIT) for supportive GNSS-derived ionospheric applications.	Mr NG, Kit	
[145] Structural, electronic and optical properties of CH ₃ NH ₃ PbI ₃	Mrs ALSADIG, Aya	
[142] Study the impact of pile-up jets in the MET reconstruction for the forward region at the ATLAS experiment	Ms SHRIF, Esra	
[131] Studying the effects of pileup on the leptonic properties for the H ⁺ ZZ → 4l channel with the ATLAS detector at the LHC	Ms MTINTSILANA, Onesimo	
[29] Computational study of ZIF with functional groups for CO ₂ adsorption.	Dr TSAI, Chih-Wei Tsai	
[378] Spectroscopic follow up of TESS observations to study new Pulsating Pre-Main Sequence stars	Mr LEKWENE, Papi	
[371] Status of the ECR ionizer for polarized ion source at iThemba LABS	Mr MNIKATHI, Ndumiso	

[213] Computational Modelling of Platinum Arsenide (PtAs ₂)	Mr MOLALA, Kgwajana Barnard	
[218] Interpreting features of the LHC data with a second complex doublet and a singlet	Mr RAJAOBELINA IARILALA, Elie Danien	
[287] Synthesis and characterization of ZnS prepared by Co-precipitation method	Ms MODUNGWE, Tshegofatso	
[263] High-resolution confocal Raman microscopy analysis of the transparent hematite films prepared on fluorine-doped tin oxide coated glass substrates by spray pyrolysis	Mr CONGOLO, Siphon	
[265] Magnetic and Mössbauer studies of Ca _x Zn _{1-x} Fe ₂ O ₄ nanoferrites	Ms ADEWALE, Kemi	
[53] Surface chemical characterization of ZnO-Eu ³⁺ /Yb ³⁺ thin films on Si (100) substrates using TOF SIMS	Dr AVULA, Balakrishna	
[259] Computational modelling study of hydrated nickel-rich pentlandite (110) surface	Dr MKHONTO, Peace	
[116] Background estimation for multilepton and $b\bar{b}$ -jets analysis at ATLAS at the LHC	Mr MONNAKGOTLA, Jeremiah	
[253] Synthesis, structural and magnetic properties of Ni _{0.5} Ti _{0.5} Fe ₂ O ₄	Mr DLAMINI, Sanele	
[119] Systematic uncertainties in the search for a high mass scalar decaying to 4 leptons in the ATLAS detector at the LHC	Mr VON BUDDENBROCK, Stefan	
[309] Structural and optical properties of spin coated graphene oxide thin films	Ms TLADI, Boitumelo	
[301] Structural and optical properties of NiO nanopowders prepared by co-precipitation method for gas sensing applications	Mr MOKOENA, Teboho	
[302] H α images of nearby galaxy groups; NGC 193 and NGC 940	Ms HATTINGH, Sumari	
[225] Effect of temperature on the structure and dynamic properties of metal sulphide nanostructures via molecular dynamics simulation	Dr MEHLAPE, Mofuti	
[391] Deconvolution method for obtaining directly the original in-depth distribution of composition from the measured sputter depth profile	Dr YAN, Xin Liang	
[151] Deriving thermospheric neutral density from SuperDARN radar data	Ms GNEGY, Eva	
[150] SQUID Magnetometer Data Analysis	Mrs HUFF, Abigail	
[152] Ionospheric Diurnal Double Peak Structures	Mr TAYLOR, Joe	
[155] ATLAS Tile Calorimeter online software configuration and Performance study of the super-drawer components	Mr MASUKU, Thabo	
[47] Search for gamma-ray emission from the newly discovered close binary system AR Scorpii	Mr KAPLAN, Quinton	
[45] Constraining the TeV Gamma-ray Emission Regions with Gamma-Gamma Absorption	Mr DU PLOOY, Drikus	