63rd ANNUAL CONFERENCE OF THE SA INSTITUTE OF PHYSICS

Tuesday 26 June 2018

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

[id] title	presenter	boar d
[341] Enhanced Photocatalytic Activity of TiO2 Nanoparticles by Copper and Silver Codoping	Mr NUBI, Olatunbosun Nub	i
[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 Omoefe	
[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 CO2 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	

[375] The effect of different annealing period intervals on BaAl2O4:0.2% Ce3+ nano-phosphor' structure, morphology and luminescent properties synthesized by citrate sol-gel method.	Ms MODISAKENG, Kgomotso
[87] Electronic and Optical Properties of Lead-free Hybrid Perovskite CH ₃ NH ₃ SnI ₃ from first principles calculations	Mr ABDALLAH ALI, Ibrahim Omer
[177] Comparison of ionospheric scintillation to in situ electron density variations as measured by the Swarm satellites.	Dr CILLIERS, Pierre
[173] Controlling iron-oxide nanoparticle size with nanometer precision to synthesize monodispersed particles: a theoretical and experimental investigation.	Dr HARRIS, Richard
[183] LaAlO ₃ sheet-like nanostructures synthesized through microwave-assisted method and their gas sensing characteristics	Ms SHINGANGE, Katekani
[320] Gadolinium doped and undoped silicon detectors for radiation sensing in high energy physics experiments	Mr SITHOLE, THOKOZANE MOSES
[325] Quantum optical implementation of open quantum walks – a generalized approach	Mr ZUNGU, Ayanda
[203] Mesospheric Ozone Monitoring	Mr LOPEZ, Ed
[205] Investigating the relationship between Ground level enhancement events and radiation enhancement at aviation altitude	Mr WEBSTER, Kyle
[204] Global ionospheric vertical drift studies	Ms LEFEBVRE, Gabriel
[207] Statistical properties of 180,181,182Ta and their implications for 180Ta nucleosynthesis	Mr MALATJI, Kgashane
[209] Data Processing Procedure for the Time-of-Flight Spectrometer of Heavy Ions in the wide range of Energies.	Mr MALAZA, Vusi
[121] Quantum efficiency of visible-light photochemical water splitting for hydrogen production by photocatalysis	Mr NQAYI, Sibusiso
[125] The $\text{textbf}(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Mr MASHISHI, Lehumo
[311] Persistent luminescence excitation of BaAl2O4:Eu2+,Dy3+	Prof. SWART, Hendrik
[310] Extensions of THERMUS and its Applications in High Energy Particle collisions	Dr WORKU, DAWIT
[367] Analysis of temperature dependent I-V characteristics of Pd/n-4H-SiC Schottky barrier diodes and the determination of the Richardson constant in a wide temperature range	Mr GORA, Valentine
[360] Radiological risk assessment of water sources from the Serule area of Botswana	Mr BOTLHOLE, Donovan
[381] Computational investigation of vacancy ordering in gamma-Mn ₂ O ₃ .	Dr MAENETJA, Khomotso
[60] Probing the intergalactic magnetic field through observations of high energy gamma-rays produced by electromagnetic cascades.	Mr BISSCHOFF, Brandon
[65] Influence of citric acid on LiMn2O4 nanostructures prepared by modified chemical bath method	Mr KOAO, Lehlohonolo
[357] Effect of domain transformation on the magnetic properties of NixCo1-xFe2O4	Mr NHLAPO, Amos
[216] A Planned Calibration Facility For In-Situ Gamma-Ray Detectors	Mr SEHONE, Alfred Mogotsi
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[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, Sipho
[265] Magnetic and Mössbauer studies of Ca_xZn_{1-x }Fe_2O_4 nanoferrites	Ms ADEWALE, Kemi
[53] Surface chemical characterization of ZnO-Eu3+/Yb3+ 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\$-jets analysis at ATLAS at the LHC	Mr MONNAKGOTLA, Jeremiah
[253] Synthesis, structural and magnetic properties of Ni0.5Ti0.5Fe2O4	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] Hα 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 Perfomance 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