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2:00 PM		OPENING CEREMONY & PHOTO SESSION		PLENARY SESSION PROF. DR. WAN MAJID ABD. MAJID		PPA.I.1	MED.C.6						
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2:10 PM						PPA.I.2	MED.C.8						
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2:20 PM						PPA.I.3							
2:25 PM		PLENARY SESSION DR. ONG HOOI JIN		CMPP.I.3	ACG.C.5								
2:30 PM				CMMP.C.13	ACG.C.6								
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3:00 PM	PERFIK REGISTRATION	PLENARY SESSION DR. IWAN MORTON-BLAKE		CMMP.C.13	ACG.C.7	PPA.I.3							
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3:30 PM		NPPP.I.1	TSCP.C.4 (ST2)	PII.I.1	OP.I.1								
3:35 PM			TSCP.C.5		END OF PERFIK 2024								
3:40 PM		NPPP.I.2	TSCP.C.6	PII.I.2			OP.C.1 (ST2)						
3:45 PM			TSCP.C.7		OP.C.2 (ST3)								
3:50 PM		NPPP.I.3	PED.C.1	PII.C.1 (ST1)	OP.C.3								
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4:00 PM		NPPP.I.4	PED.C.2	PII.C.3	OP.C.5 (ST2)								
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LEGEND			
	Astrophysics, Cosmology and Gravitation		
	Biological and Medical Physics		
	Condensed Matter and Material Physics		
	Nuclear Physics & Particle Physics		
	Optics, Photonics and Laser Science		
	Physics Education		
	Plasma Physics and Applications		
	Theoretical, Statistical and Computational Physics		

PERFIK 2024 SCIENTIFIC PROGRAMME (SIMPLIFIED)										
TIME	TUESDAY (5/11/2024)		WEDNESDAY (6/11/2024)		THURSDAY (7/11/2024)					
8:30 AM	AAPPS - DPP PLENARY SESSION		AAPPS - DPP PLENARY SESSION		AAPPS - DPP PLENARY SESSION					
9:30 AM	Registration & tea-break		Tea-break		Tea-break					
10:00 AM	CONDENSED MATTER & MATERIALS PHYSICS SESSION 1	THEORETICAL, STATISTICAL & COMPUTATIONAL PHYSICS SESSION 1	PLENARY SESSIONS PROF. DR. HOR YEW SAN PROF. DR. LOW JIN XIANG		PLENARY SESSIONS DR. ONG JIAN FUH PROF. DR. SIDDHARTHA SANKAR KAUSIK					
10:05 AM			CONDENSED MATTER & MATERIALS PHYSICS SESSION 2	ASTROPHYSICS, COSMOLOGY & GRAVITATION SESSION 1	CONDENSED MATTER & MATERIALS PHYSICS SESSION 4	BIOLOGICAL & MEDICAL PHYSICS SESSION 1				
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12:35 PM	OPENING CEREMONY PHOTO SESSION		PLENARY SESSION PROF. DR. WAN MAJID ABD. MAJID		PLASMA PHYSICS & APPLICATIONS	BIOLOGICAL & MEDICAL PHYSICS SESSION 2				
12:40 PM										
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2:00 PM	PLENARY SESSIONS DR. ONG HOOI JIN		CONDENSED MATTER & MATERIALS PHYSICS SESSION 3	ASTROPHYSICS, COSMOLOGY & GRAVITATION SESSION 2						
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2:50 PM	PLENARY SESSION DR. IWAN MORTON-BLAKE									
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3:35 PM	NUCLEAR PHYSICS & PARTICLE PHYSICS		PHYSICS IN INDUSTRY		CLOSING CEREMONY					
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4:10 PM	THEORETICAL, STATISTICAL & COMPUTATIONAL PHYSICS SESSION 2									
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5:00 PM		PHYSICS EDUCATION		OPTICS, PHOTONICS & LASER SCIENCE						
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7:00 PM			CONFERENCE DINNER							

FIELD	NAME	TITLE	TYPE	PARTICIPANT ID
Astrophysics, Cosmology and Gravitation	ROSLAN BIN UMAR	Correlating Sunspot Formation with Solar Flare Evolution: A case study of AR 13667 and AR 13664	INVITED	ACG.I.1
	AHMAD HARIZ BIN BELY	Spatial Modeling of Artificial Light at Night (ALAN) at the Pusat Astronomi Borneo, Sarawak, Malaysia: Light Pollution Assessment	CONTRIBUTED	ACG.C.1
	AHMAD LUTFI AFIFI MOHD NASIR	Enhancing New Crescent Moon Visibility Using a Hybrid Gamma Correction and Contrast-Limited Adaptive Histogram Equalization Approach in Image Processing Technique	CONTRIBUTED	ACG.C.2
	AHMAD YUSOF	Pattern of Solar Activity Levels and Their Effects on Galactic Cosmic Ray Particle Fluxes in the First Four Years of the 23rd, 24th and 25th Solar Cycle	CONTRIBUTED	ACG.C.3
	AMIRUL HAZIM BIN KAMARULZAMAN	Leveraging Raspberry Pi HQ Camera for Astronomical Phenomenon Observation	CONTRIBUTED	ACG.C.4
	MAJIDIN ABDULLAH	Serendipity discovery of Baryon Acoustic Oscillation Ring	CONTRIBUTED	ACG.C.5
	NUR HIDAYAH BINTI ISMAIL	The First Generation of Stars: Unveiling the Secrets of Very Massive Stars in Population III	CONTRIBUTED	ACG.C.6
	RAJA ADIBAH RAJA HALIM SHAH	Analysis of CME-Driven Geomagnetic Storms and Their Influence on Earth Ionosphere: Insights from the April 2023 Event	CONTRIBUTED	ACG.C.7
	SITI SYAZWANI NASUHA BINTI MOHD HASNI	Variations in meridional thermospheric neutral winds over Southeast Asia during the inclination phase	CONTRIBUTED	ACG.C.8
Biological and Medical Physics	HALIMI BIN MUHAMAD RUSLI	Mechanical and Physical Characterization of Graphene Oxide-Enhanced Polymer for Radiation Shielding in Medicine: A Preliminary Investigation	CONTRIBUTED	MED.C.1
	WONG JIA DING	Predicting Trigger Points for Adaptive Radiotherapy in Nasopharyngeal Carcinoma: A Preliminary Study	CONTRIBUTED	MED.C.2

	LIYANA BINTI SHATAR	Application of surface enhanced Raman spectroscopy (SERS) to the detection of SARS-CoV-2 and its S and N proteins	CONTRIBUTED	MED.C.3
	VINOSHAH A/P S RAVICHANDRAN	INTER-CENTRE DATA COMPARISON OF THE IAEA REMOTE AND AUTOMATED QUALITY CONTROL PROGRAMME FOR DIGITAL IMAGING: THE MALAYSIAN EXPERIENCE	CONTRIBUTED	MED.C.4
	TEA YEE LUM	Synthesis, Characterizations and Antioxidant Activity of 4-hydroxylchalcone derived Schiff Base	CONTRIBUTED	MED.C.5
	MOHD ESNU KHALIDI BIN ABD HALIM	Impact of Low-Dose Protocols on Computed Tomography of Lung Cancer Screening on the Intrinsic Performance Metrics: A Phantom Study	CONTRIBUTED	MED.C.6
	SULAYMAN MUHAMMAD KABEER	Radiation Dose and Image Quality of Routine CT Examinations	CONTRIBUTED	MED.C.7
	MOHAMAD ASMAWI BIN MOHAMAD ARIFFIN	Radiation dose and cancer risk attribution of adult Computed Tomography colonography examination	CONTRIBUTED	MED.C.8
Condensed Matter and Material Physics	HOR YEW SAN	Rethinking Quantum Physics through the Interconnectedness of Fields	PLENARY	CMMP.P.1
	LOW JING XIANG	Metal Oxide-based Materials Design for Artificial Carbon Cycle	PLENARY	CMMP.P.2
	WAN HALIZA BINTI ABD MAJID	Structural and Optical Properties of ZnO Nanoparticles and Thin Films for OLED and Sensors	PLENARY	CMMP.P.3
	LIM SIEW CHOO	Numerical simulations of noise and field-induced phase transition in bulk antiferroelectrics using ammonium dihydrogen phosphate's parameter	INVITED	CMMP.I.1
	NG SEIK WENG	Some Comments on Second-Harmonic Generation of Centrosymmetric Crystals	INVITED	CMMP.I.2
	MOHD FAKHRUL ZAMANI BIN ABDUL KADIR	Gel polymer electrolytes based on fish gelatin incorporated with ammonium nitrate for symmetric supercapacitor	INVITED	CMPP.I.3

RICHARD RITIKOS	Investigation of the Effects of Various Nitrogen Plasma Powers (Watts) on the Structural and Chemical Properties of N-doped and N-doped/PEDOT:PSS Reduced Graphene Oxide Thin Films	INVITED	CMMP.I.4
JEROME LIEW	Physical Properties of Titanium Carbide MXene synthesized with Different Etching Approaches	CONTRIBUTED	CMMP.C.1
KHISHN KUMAR KANDIAH	A transparent hydrophobic coating with excellent self-cleaning and spectral response properties to enhance Photovoltaic (PV) panel efficiency	CONTRIBUTED	CMMP.C.2
LOH KAH HOE	Biopolymer-infused PVA hydrogel polymer electrolyte for supercapacitors	CONTRIBUTED	CMMP.C.3
AHMAD ADNAN BIN ABU BAKAR	The study of temperature variations towards physical properties and degradation profile of PHB/PLA based filament	CONTRIBUTED	CMMP.C.4
NURRUL ASYIQIN BINTI K.SHAMSURI	Rainforest Honey as a Natural Plasticizer in Polymer Electrolytes for Enhanced Supercapacitor Performance	CONTRIBUTED	CMMP.C.5
SHAFARINA AZLINDA AHMAD KAMAL	Investigation of the Effects of Various Nitrogen Plasma Powers (Watts) on the Structural and Chemical Properties of N-doped and N-doped/PEDOT:PSS Reduced Graphene Oxide Thin Films	CONTRIBUTED	CMMP.C.6
MUHAMMAD IMRAN BIN JUSOH	Analyzing The Impact of 3D Printing Parameters on The Performance of Electrically and Thermally Conductive Filaments	CONTRIBUTED	CMMP.C.7
NURUL HANIS HAZIRAH YUSSUF	Iron Selenide and Cobalt Selenide as Electrode in Supercapacitor	CONTRIBUTED	CMMP.C.8
CHAN JUN WEI	Wafer – Scale Growth of MoS ₂ Thin Films via RF Magnetron Sputtering: Impact of Growth Parameters on Morphology and Optical Properties for Photonic Applications	CONTRIBUTED	CMMP.C.9
JACKY YONG	Correlated Barrier Hopping Mechanism of Na ⁺ ions: Poly(vinyl alcohol)-based Solid Polymer Electrolyte incorporated with Sodium Salt.	CONTRIBUTED	CMMP.C.10

	MUHAMMAD NAZMI HAKIM MAHMUD	Electrical Characterization of 2-Hydroxyethyl Cellulose Doped Ammonium Nitrate Plasticized with Propylene Carbonate	CONTRIBUTED	CMMP.C.11
	NORBAZIRAH AISYA BINTI MOHD RUSLI	Effect of Solvent on the Electrochemical Performance of FeCo ₂ Se ₄ -MWCNT by Composite	CONTRIBUTED	CMMP.C.12
	WAN MOHAMMAD ZULKARNAIN BIN ABDUL RAZAK	Strain effect on transport properties of WS ₂ and NbS ₂ Transitional Metal Dichalcogenides	CONTRIBUTED	CMMP.C.13
	NUR ADHLIN NAJWA MOHD NAZAR	Analyzing 3D Printing Parameters to Enhance the Electrical Performance of TPU-Based Conductive Filaments for Flexible Electronics	CONTRIBUTED	CMMP.C.14
	ONG KAR KIEN	Development of polyvinyl alcohol (PVA)/magnesium salt-based solid polymer electrolytes and its EDLC application	CONTRIBUTED	CMMP.C.16
	SHAO YACHUAN	Preparation and sodium storage mechanism of VS ₄ -based polysulfide anode materials	CONTRIBUTED	CMMP.C.17
	SYARIFFAH NURATHIRAH SYED YAACOB	Boron Environments in Ternary Sodium Germanoborate Glass using Raman Spectroscopy and DFT Quantum Chemical Calculations	CONTRIBUTED	CMMP.C.18
	ZAAHIDAH ATIQA	Comparative Enhancement of Superconducting Properties in Bi-2212 and Bi-2223 Phases through Electron, Gamma, and Neutron Irradiations	CONTRIBUTED	CMMP.C.15
	TEE LEONG CHUN	Novel Synthesis Technique of Two-Dimensional WC Nanoflakes by Hot-wire Chemical Vapor Deposition for Photocatalysis Applications	CONTRIBUTED	CMMP.C.19
Nuclear Physics & Particle Physics	ONG HOOI JIN	Nuclear Physics Frontier: Exploring Exotic Nuclei	PLENARY	NPPP.P.1
	IWAN MORTON- BLAKE	TRIDENT: A Next-generation Deep-sea Neutrino Telescope	PLENARY	NPPP.P.2
	LAM YI HUA	The Key Role of Proton-Capture Reactions in Understanding the Type-I X-ray Bursts	INVITED	NPPP.I.1

	SIEWYAN HOH	Precision Measurement of Electric and Magnetic Dipole Moment of the Muon	INVITED	NPPP.I.2
	WONG KHAI MING	Finite Energy Half-Monopole Solutions in the Weinberg-Salam Theory	INVITED	NPPP.I.3
	MARK DENNIS USANG	Prediction of prompt neutron numbers from fission fragments calculated using Langevin equation	INVITED	NPPP.I.4
	AZIA NURYASMIN	PARTICLE TRACKS IDENTIFICATION AND CLASSIFICATION BY YOLOv4 ALGORITHM	CONTRIBUTED	NPPP.C.1
Optics, Photonics and Laser Science	ABDEL-BASET M. A. IBRAHIM	Quantum Zeno Effect in Asymmetric Nonlinear Couplers Using Positive-P Representation	INVITED	OP.I.1
	TEY LIAN SENG	Comparative Study of Photon-Count Fluctuations in Classical and Quantum Light Sources Using Fractal Stochastic Processes	CONTRIBUTED	OP.C.1
	NASHMITTA PILLAI A/P VASUDEVAN PILLAI	Surface-enhanced Raman Scattering Substrate Based on Bimetallic Nanoparticles Embedded Reduced Graphene Oxide for Glucose Detection	CONTRIBUTED	OP.C.2
	SITI NURUL FATIHAH BINTI AZAHAN	Advancing Collagen Quantification: A D-shaped Flat Tip Sensor for Enhanced Type I Bovine Collagen Concentration Detection	CONTRIBUTED	OP.C.3
	SABRINA MOHD FARID	Renewable Energy Solutions: Enhancing Marine Life Growth by Optimizing Sunlight Penetration Using Fibre Optic Daylighting System	CONTRIBUTED	OP.C.4
	ONG GUANG LIANG	PM6:Y6 based organic photovoltaic cells and the effects of the electron extraction layer	CONTRIBUTED	OP.C.5
Physics Education	AMIRUL HAZIM BIN KAMARULZAMAN	Reaching for the Stars: Exploring Primary School Students' Growing Interest in Astronomy from Year 4 to Year 6	CONTRIBUTED	PED.C.1
	HOH SIEW YAN	From Clouds to Sparks: Scintillating Cosmic Rays in the Classroom	CONTRIBUTED	PED.C.2

Physics in Industry	MUDTORLEP NISOA	Exploring Microwave Heating Physics and Technological Innovations for Agricultural Applications	INVITED	PII.I.1
	MOHD IFWAT MOHD GHAZALI	Additive Manufacturing In Electronics Industry	INVITED	PII.I.2
	ETHAN KONG	Preparation of GO/TiO ₂ Nanocomposite as a Photocatalyst for Wastewater Mitigation	CONTRIBUTED	PII.C.1
	FATIN AFEEQA	Conditioning Environment Method: A Key Techniques in Calibration of Wood Moisture Meter	CONTRIBUTED	PII.C.2
	SITI NUR SHUHADAH	Structure and piezoelectric properties of piezoelectric of Potassium Sodium Niobate (KNN) doped with Mn	CONTRIBUTED	PII.C.3
	RIDHVEE TALEH	Development of DC magnetically well-type cathode and thermal plasma torch for treatment of hazardous wastes	CONTRIBUTED	PII.C.4
Plasma Physics and Applications	ONG JIAN FUH	Non-linear QED approach for betatron radiation in a laser wakefield accelerator	PLENARY	PPA.P.1
	SIDDHARTHA SANKAR KAUSIK	Investigation of Nitrogen Fixation in Tea Factory Waste through Non-Thermal Plasma Technology	PLENARY	PPA.P.2
	ROY B. TUMLOS	Effect of electron beam irradiation on the mechanical properties of natural rubber from Zamboanga Sibugay, Philippines	INVITED	PPA.I.1
	DEEPAK PRASAD SUBEDI	Dielectric Barrier Discharge and its Application for Surface Modification of Polymers	INVITED	PPA.I.2
	VIKAS RATHORE	Innovative Urea Synthesis Using Microwave Plasma-Activated Water for Enhanced Agricultural Applications	INVITED	PPA.I.3
	VANESSA PHUNG LING JEN	Beam diagnostics bench for laser-plasma acceleration experiments	INVITED	PPA.I.4

Theoretical, Statistical and Computational Physics	SUNNY GOH ENG GIAP	Heat Balance Equations for Unsaturated Soils	INVITED	TSCP.I.1
	NURISYA MOHD SHAH	Exact closed form of geodesic equation for 3-qubit quantum Fourier transform	INVITED	TSCP.I.2
	TAY BUANG ANN	Time scale for two-qubits to disentangle or entangle maximally	INVITED	TSCP.I.3
	KOH MENG HOCK	Estimation of pairing matrix elements based on the averaged single-particle level density	INVITED	TSCP.I.4
	WEE CHING HWA	Quantum Computer Specification for Nuclear Structure Calculations	CONTRIBUTED	TSCP.C.1
	KIREN EMMANUEL ANBALAGAN	Identification of Experimental Variable Effects on Electron Paramagnetic Resonance Spin System via Simulation	CONTRIBUTED	TSCP.C.2
	ZAIN ULLAH	Quantum walks in the generalized Aubry-Andre-Harper model	CONTRIBUTED	TSCP.C.3
	H'NG YEE SHEAN	Impact of Quantum Jumps on Concurrence Near Exceptional Points	CONTRIBUTED	TSCP.C.4
	MATTHEW A/L ERNEST PAUL	Wormhole Geometrodynamics via Tensor Fields in Braneworld Cosmology	CONTRIBUTED	TSCP.C.5
	KARISVINI RAVI	Modelling mycelium growth of <i>Pleurotus pulmonarius</i> and <i>Trichoderma harzianum</i> to understand interspecies antagonism using image analysis.	CONTRIBUTED	TSCP.C.6
	NUR IZZATI MOHD ROSLI	Equatorial Plasma Bubble Observation in Malaysia and Its Relationship with Counter Electrojet Current	CONTRIBUTED	TSCP.C.7

PLENARY 35 minutes including Q&A
INVITED 25 minutes including Q&A
CONTRIBUTED 15 minutes including Q&A