Oral Presentation

Symposium 1: Physics Innovation and Education

June 6 2024						
	June 6, 2024					
	Room: PAKA KRONG					
	Symposium: Physics Innovation & Education (S1-1)					
	Chair	**Assoc. Prof. Dr. Chesta Ruttanapun**				
	Co-chair	**Asst. Prof. Dr. Chaval Sriwong**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:30	0:30	S1-KEY	Prof. Dr. Dheerawan Boonyawan	Air Plasma Spray and Plasone: Top-To-Toe Cold Atmospheric Plasma Innovation
	13:30	14:00	0:30	S1-INV1	Assoc. Prof. Dr. Mudtorlep Nisoa	Engineering Physics Research to Develop Microwave Heating Technology for Agricultural and Industrial Development
	14:00	14:15	0:15	S1-O-13	Patanin Ngaensupalak	Development of in Situ Diameter Measuring Device of 3D Printing Filament in Extruder Using Image Analysis
	14:15	14:30	0:15	S1-O-50	Haifa Kaseng	Investigate Students' Understanding of Newton's Third Law in Thai High Schools
	14:30	14:45	0:15	S1-O-150	Somporn Buaprathoom	Experimental Set for Studying Charge-Discharge of Two RC Circuits Simultaneously by Automatically Displaying Electric Potential Graphs in Real Time.
	14:45	15:00	0:15	S1-O-170	Danbhadin Wongphadungtham	Development Of Portable Detection Device for Heavy Metal Contamination Using Ultraviolet-Visible Spectroscopy
	Coffee Break					
	Symposium: Physics Innovation & Education (S1-2)					
	Chair	**Prof. Dr. Dheerawan Boonyawan**				
	Co-chair	**Assoc. Prof. Dr. Chesta Ruttanapun**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	15:15	15:45	0:30	S1-INV2	Assoc. Prof. Dr. Suthira Taychakhoonavudh	Navigating Through the Innovation Journey: Case Study of Baiya Phytopharm
	15:45	16:00	0:15	S1-O-202	Chinapat Mongkholsiriwattana	The Effectiveness of Hands-on Experience Peer-Assisted Learning in Aviation Camps for Enhancing Basic Knowledge of Physics, Airplane Components, and Control
	16:00	16:15	0:15	S1-O-258	Natthagrittha Nakhonthong	Investigating Factors Affecting Student Performance in Physics 2 Course by Analyzing the Number of re-Enrollment Students
	16:15	16:30	0:15	S1-O-261	Piyoros Khondok	A Semi-Automatic Demonstration Kit for Determination of the Static Friction Coefficient Using the Variable Incidence Tribometer Method
	16:30	16:45	0:15	S1-O-316	Anyamanee Pattranont	A IoT Demonstration Kit Waste Separation Education for Middle School Student
	16:45	17:00	0:15	S1-O-198	Thanakit Chaocharoen	Using Internet of Things for Management Farm
	Poster Session					

June 7 2024						
	June 7, 2024					
	Room: PAKA KRONG					
	Symposium: Physics Innovation & Education (S1-3)					
	Chair	**Assoc. Prof. Dr. Mudtorlep Nisoa**				
	Co-chair	**Asst. Prof. Dr. Chaval Sriwong**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:15	0:15	S1-O-178	Pusanisa suwansil	Convex Lens Image Formation Kit: Enhancing Students' Learning Achievement for Pre-Service Science Teachers
	9:15	9:30	0:15	S1-O-263	Kittiwat Tangmongkollert	Home-Lab Experiment of Beat and Resonance of Guitar's String via Phyphox
	9:30	9:45	0:15	S1-O-278	Wittaya Kanchanapusakit	Measuring the Charge on an Object Suspended in an Electric Field
	9:45	10:00	0:15	S1-O-283	Tippavan Hongkachern	Enhancing Physics Education: from Water Wave Experiments to Coastal Dynamics
	10:00	10:15	0:15	S1-O-324	Sumalee Tientongdee	The Impact of Problem-Based Learning Integrated with STEAM Education Light and Optics on Problem-Solving Skill of Pre-Service Science Teachers
	10:15	10:30	0:15	S1-O-335	Thanakrit Trivuth	Investigation of Styrofoam Ball Stability in Acoustic Field
	Coffee Break					
	Poster Session					
	Lunch					

Symposium 2: Condensed Matters and Materials Physics

June 6 2024						
	June 6, 2024					
	Room: CHA BA					
	Symposium: Condensed Matters & Material Physics (S2-1)					
	Chair	**Prof. Dr. Naratip Vittayakorn**				
	Co-chair	**Assoc. Prof. Dr. Tosapol Maluangnont**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:30	0:30	S2-KEY	Assoc. Prof. Dr. Jakrapong Kaewkhao	Scintillation Material from Glass: Advantages and Application
	13:30	13:45	0:15	S2-O-29	Kittipun Boonin	The Analysis of Dielectric and Thermal Properties on Glass Oxide $30B_2O_3$: $22.5V_2O_5$: $22.5MoO_3$: $15TeO_2$: $10Li_2O$
	13:45	14:00	0:15	S2-O-259	Rattachanok Chongprasit	Controlling the Phase and Properties of Sol-Gel Derived Vanadium Dioxide Thin Films Through Rapid Thermal Annealing Parameters for Smart Window Application
	14:00	14:15	0:15	S2-O-264	Yodchay Jompol	Graphene Photodetector: An Observation of the Negative Photoresponse
	14:15	14:30	0:15	S2-O-270	Chotipach Phophueannoi	Observation of the Negative Photocurrent in Single-Walled Carbon Nanotube Field Effect Transistor Under Broad Spectrum of Light
	14:30	14:45	0:15	S2-O-291	Karnthida Buranapanich	Colorimetric Detection of Sodium Metabisulfite
	14:45	15:00	0:15	S2-O-292	Sitrathip Bunruang	Facile Synthesis of Copper-Based Particles and Characterization
	Coffee Break					
	Symposium: Condensed Matters & Material Physics (S2-2)					
	Chair	**Assoc. Prof. Dr. Jakrapong Kaewkhao**				
	Co-chair	**Assoc. Prof. Dr. Saichon Sriphan**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	15:15	15:45	0:30	S2-INV1	Assoc. Prof. Dr. Pongsakorn Kanjanaboos	Functional Materials and Scalable Processes for Low-Cost Perovskite Solar Cells and Radiative Cooling Films
	15:45	16:00	0:15	S2-O-227	Noppawit Sukpan	Fabrication of Carbon-based Perovskite Solar Modules
	16:00	16:15	0:15	S2-O-114	Nakorn Henjongchom	Enhancing the Stability of All-Inorganic CsPbI2Br Perovskite Solar Cells Through Surface Engineering with Formamidinium Halide Salt
	16:15	16:30	0:15	S2-O-226	Yodchay Jompol	Radiative Cooling Materials for Energy-Saving Greenhouse with Light Selectivity
	16:30	16:45	0:15	S2-O-141	Saitanthong Wongsuban	The Effect of Phase Structure on the Optical Transmittance and Heater Characteristic of Indium Tin Oxide Thin Film on a Glass Substrate
	Poster Session					

June 7 2024						
	June 7, 2024					
	Room: CHA BA					
	Symposium: Condensed Matters & Material Physics (S2-3)					
	Chair	**Assoc. Prof. Dr. Pongsakorn Kanjanaboos**				
	Co-chair	**Assist. Prof. Dr. Narit Triamnak**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:30	0:30	S2-INV2	Assoc. Prof. Dr. Saichon Sriphan	Tribovoltaic Effect Based on Solid-Solid Interface: Transition from Emerging Mechanism into Potential Applications
	9:30	9:45	0:15	S2-O-64	Tosapol Maluangnont	Gamma Irradiation Improves Charge Transport of Highly Insulating Graphite Fluoride
	9:45	10:00	0:15	S2-O-186	Kittitat Lerttraikul	Realization of the G-Peak Splitting in Graphene/VO_2 Heterostructures
	10:00	10:15	0:15	S2-O-216	Pataiy Praiypan	Impact of Electron-Phonon Coupling on Graphene Intercalation Compounds from Self Energy: Polynomial Models Selection
	10:15	10:30	0:15	S2-O-314	Maryam	Synthesis and Characterization of TiO_2 Decorated Reduced Graphene Oxide Sheets for Energy Storage Application
	Coffee Break					
	Poster Session					
	Lunch					
	Symposium: Condensed Matters & Material Physics (S2-4)					
	Chair	**Assoc. Prof. Dr. Saichon Sriphan**				
	Co-chair	**Assoc. Prof. Dr. Navaphun Kayunkid**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:15	0:15	S2-O-7	Sitichoke Amnuanpol	Disclinations in Vibration-Induced Size Segregation
	13:15	13:30	0:15	S2-O-14	Voranuch Thongpool	Synthesis, Characterization and Antibacterial Activity of CuO Nanoparticles via Green Synthesis using Kratom Leaf Extract
	13:30	13:45	0:15	S2-O-18	Wittaya Kanchanapusakit	Factors Influencing Rotation-Counterrotaion Transition in a Swirling Granular System
	13:45	14:00	0:15	S2-O-54	Supaluk Prapan	A Study on Thermoplastic/Carbon Fiber Interface Mechanism using Atomistic Calculation

Symposium 3: Astronomy, Astrophysics and Cosmology

June 6 2024						
	June 6, 2024					
	Room: PHEUNG FA					
	Symposium: Astronomy, Astrophysics & Cosmology (S3-1)					
	Chair	**Asst. Prof. Dr. Siramas Komonjinda**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	12:45	13:15	0:30	S3-INV1	Dr. Taweewat Somboonpanyakul	CHIPS1911+4455: A Cooling Flow in a Mering Cluster
	13:15	13:30	0:15	S3-O-53	Thansuda Chulikorn	Confronting the Earth Detectability with the Microlensing Technique using the Gaia DR3 Data.
	13:30	13:45	0:15	S3-O-85	Napaporn A-thano	Investigating the Transit Timing of the Hot Jupiter WASP-43 b from a Decade of Multi-Band Transit Follow-up Observations
	13:45	14:00	0:15	S3-O-99	Tanagodchaporn Inyanya	Confronting Interstellar Extinction in the Line of Sight of Galactic Bulge with the VVV Survey
	14:00	14:15	0:15	S3-O-101	Pakawee Surarittikul	Comparison of Parameter-Based and Image-Based Classification of Variable Stars with the Imbalance Database
	14:15	14:30	0:15	S3-O-115	Manasanun Tanasan	Optical Transient Observation of SN2023wrk for Gravitational Wave Candidate Exclusion
	14:30	14:45	0:15	S3-O-120	Muhammadalawee Sareh	Investigating Transit Timing Variations of a Hot Jupiter HAT-P-43b
	14:45	15:00	0:15	S3-O-124	Orarik Tasuya	Astronomical Variable Objects Classification Based on Machine Learning from Survey Telescope Observations Data: A Comparative Study of ASAS-SN and GAIA DR2 Catalogs
	Coffee Break					
	Symposium: Astronomy, Astrophysics & Cosmology (S3-2)					
	Chair	**Dr. Taweewat Somboonpanyakul**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	15:15	15:45	0:30	S3-INV2	Dr. Saran Poshyachinda	National Astronomical Research Institute of Thailand (NARIT)
	15:45	16:00	0:15	S3-O-138	Supachai Awiphan	Variations in Time-Dependent Signals within a Photocentric Model of Transiting Exoplanet with Exomoon
	16:00	16:30	0:30	S3-INV3	Dr. Wiphu Rujopakarn	Thailand's Space Research and Space Technology Development Program
	16:30	16:45	0:15	S3-O-143	Napat Nabklang	Enhancing Machine Learning in Astrophysics: A Comparative Study of Numeric and Imagery Data Modalities
	Poster Session					

June 7 2024

June 7, 2024

Room: PHEUNG FA

Symposium: Astronomy, Astrophysics & Cosmology (S3-3)

Chair **Dr. Praween Siritanasak**

Co-chair

Start	End	Duration	Code	Speaker	Title
9:00	9:30	0:30	S3-KEY	Prof. Dr. David Ruffolo	Space Radiation Science and Technology
9:30	9:45	0:15	S3-O-22	Lucero Uscanga	Cosmic Masers from Dying Stars
9:45	10:00	0:15	S3-O-69	Malcolm Gray	Astrophysical Maser Flares by Saturation Catastrophe
10:00	10:15	0:15	S3-O-105	Bannawit Pimpanuwat	Improved 3D Model of High-Frequency SiO Masers towards the AGB Star π1 Gru
10:15	10:30	0:15	S3-O-106	Sarith Chopara	Tracing Galactic Evolution: Comparing AGN-Like Emissions with the Galactic Centre Emission

Coffee Break

Poster Session

Lunch

Symposium: Astronomy, Astrophysics & Cosmology (S3-4)

Chair **Dr. Nareemas Chehlaeh**

Co-chair

Start	End	Duration	Code	Speaker	Title
13:00	13:15	0:15	S3-O-126	Kritaporn Butsaracom	Explaining Cosmic Ray Electron and Positron Spectrum by AMS-02 using DRAGON2: Interpretation for Pulsar Wind Nebulae
13:15	13:30	0:15	S3-O-129	Supphakit Wiweko	Leptonic Spectral Energy Distribution Emission of Vela Pulsar Wind Nebulae from Fermi-LAT, Suzaku, and H.E.S.S. Observations
13:30	13:45	0:15	S3-O-144	Jaruchit Siripak	Indirect Detection of Solar Captured DM in JUNO Experiment
13:45	14:00	0:15	S3-O-155	Yosita Loungrueang	Rotation Velocity of the Milky Way Galaxy Based on VLBI Astrometry
14:00	14:15	0:15	S3-O-176	Montree Phetra	Cloud Overlapping for EVPA Flip in CSE with 3D Maser Polarization Simulation
14:15	14:30	0:15	S3-O-179	Nobuyuki Sakai	OH Maser Survey Toward Off-Plane AGB Stars with 40-m Thai National Radio Telescope (TNRT)
14:30	14:45	0:15	S3-O-342	Praween Siritanasak	The Current Status of POLARBEAR and Simons Array Experiment

June 7 2024						
	June 7, 2024					
	Room: BU-NGA					
	Symposium: Astronomy, Astrophysics & Cosmology (S3-5)					
	Chair	**Asst. Prof. Dr. Lunchakorn Tannukij**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:15	0:15	S3-O-162	Nareemas Chehlaeh	Physical Properties of Globular Clusters NGC 288 and NGC 362 from the ACS Survey of the Hubble Space Telescope
	9:15	9:30	0:15	S3-O-185	Sittipong Konkaew	Long-Term Study of PSR J2129-0429 with the Thai National Telescope
	9:30	9:45	0:15	S3-O-320	Krittapas Chanchaiworawit	Extragalactic and Time-Domain Astronomy with SEA OtTeRS and CoLoRS
	9:45	10:00	0:15	S3-O-249	Deepak Pandey	Study of Type II Radio Bursts Associated or Non-associated with Type III Radio Bursts
	10:00	10:15	0:15	S3-O-309	Apoorva Srinivasa	Forecasting of Calcium-K Line Profiles of the Sun using Machine Learning Techniques
	10:15	10:30	0:15	S3-O-337	Samaporn Tinyanont	Probing a Stripped-Envelope Supernova Progenitor's Mass Loss History and Dust Formation with James Webb Space Telescope
	Coffee Break					
	Poster Session					
	Lunch					
	Symposium: Astronomy, Astrophysics & Cosmology (S3-6)					
	Chair	**Asst. Prof. Dr. Lunchakorn Tannukij**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:30	0:30	S3-INV4	Assoc. Prof. Dr. Piyabut Burikham	Thermodynamics of Black Hole in Certain Class of Weyl Geometric Gravity
	13:30	14:00	0:30	S3-INV5	Prof. Dr. Burin Gumjudpai	Gravitational UV/IR Mixing with Matter Effects in Cosmology
	14:00	14:15	0:15	S3-O-84	Kraiwut Dakam	Linearly Interacting Barrow Holographic Dark Energy in Modified Cosmology
	14:15	14:30	0:15	S3-O-210	Sakdipat Autthakunlakun	Axion Clouds around Black Hole in f(R) Theory
	14:30	14:45	0:15	S3-O-15	Ittipat Roopkom	The Fourth Dimension of Time and Gravity

Symposium 4: Accelerator and Synchrotron Radiation

June 6 2024	June 6, 2024					
	Room: KALAKED					
	Symposium: Accelerators & Synchrotron radiations (S4-1)					
	Chair	**Dr. Thakonwat Chanwattana**				
	Co-chair	**Asst. Prof. Dr. Mettaya Kitiwan**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	12:30	13:00	0:30	S4-KEY	Dr. Prapong Klysubun	Advanced Physics and Engineering Developments for Siam Photon Source II Particle Accelerator Complex
	13:00	13:30	0:30	S4-INV1	Dr. Thakonwat Chanwattana	SLRI Ongoing Synchrotron and Accelerator Projects
	13:30	13:45	0:15	S4-O-62	Pajeeraphorn Numanoy	Development of Quadrupole Magnet Prototype for Booster Synchrotron of Siam Photon Source II
	13:45	14:00	0:15	S4-O-65	Netchanok Thiabsi	Error Analysis of Stretched Wire System for Magnetic Field Measurement of Quadrupole Magnets
	14:00	14:15	0:15	S4-O-79	Nontaphat Promsena	Design of Tandem Accelerator for AMS Radiocarbon Dating
	14:15	14:30	0:15	S4-O-83	Nawasin Chomchan	Design of Octupole Deflector for Accelerator Mass Spectrometer
	14:30	14:45	0:15	S4-O-87	Jetsada Phomuen	Design of Faraday Cup for Compact Accelerator Mass Spectrometer
	14:45	15:00	0:15	S4-O-94	Umput Suethonglang	Design of Electrostatic Einzel Lens for Accelerator Mass Spectrometer
	15:00	15:15	0:15	S4-O-175	Natthapong Saengwises	Optimization of Snics Design for Accelerator Mass Spectrometry

Symposium 5: Mathematics, Computational and Numerical Physics

June 6 2024						
June 6, 2024						
Room: CHUANCHOM 2						
Symposium: Mathematics, Computational & Numerical Physics (S5-1)						
Chair	**Assoc. Prof. Dr. Adisak Boonchun**					
Co-chair	**Asst. Prof. Dr. Kanoknan Phacheerak**					
Start	**End**	**Duration**	**Code**	**Speaker**	**Title**	
13:30	14:00	0:30	S5-KEY	Assoc. Prof. Dr. Jatuporn Thongsri	Computer Simulation in Engineering	
14:00	14:15	0:15	S5-O-36	Chayapol Leardngammongkolkul	Comparison of Efficiency of Machine Learning Techniques for Prediction of PM2.5 in Thailand	
14:15	14:30	0:15	S5-O-184	Natthanidnan Sricharoen	Enhancing PM2.5 Data Collected via Low-Cost Sensors in Chiang Mai, Thailand, Utilizing a Nonlinear Regression Modeling Approach	
14:30	14:45	0:15	S5-O-228	Krittin Phornsiricharoenphant	Exploiting Quadratic Unconstrainted Binary Optimization for Solving Vehicle Routing Problem with Discretized Time Windows	
14:45	15:00	0:15	S5-O-238	Maitai Dahlan	Analyzing Earthquake Occurrences: Applying Computational Methods for Time, Magnitude, and Direction by using Triangular Reaction Analysis of Earth's Crust.	
Coffee Break						
Symposium: Mathematics, Computational & Numerical Physics (S5-2)						
Chair	**Assoc. Prof. Dr. Thanayut Kaewmaraya**					
Co-chair	**Asst. Prof. Dr. Kittiphong Amnuyswat**					
Start	**End**	**Duration**	**Code**	**Speaker**	**Title**	
15:15	15:45	0:30	S5-INV1	Assoc. Prof. Dr. Papichaya Chaisakul	Finite-Difference Time-Domain Method for The Investigation of Silicon-Based Photonic Integrated Circuits	
15:45	16:00	0:15	S5-O-90	Songvudhi Chimchinda	Bright and Dark Solitons to the Perturbed Nonlinear	
16:00	16:15	0:15	S5-O-168	prajya - tangjitsomboon	Determination of the Q Factor and Resonance Frequency of RLC Series Circuits using Various Electrical Waveform Inputs.	
16:15	16:30	0:15	S5-O-220	Sarun Phibanchon	Exploring Weakly Ion-Acoustic Waves in Plasmas with Physics-Informed Neural Networks: A Study Based on the Schamel Equation	
16:30	16:45	0:15	S5-O-232	Chainarong Taepanich	Chaotic Dynamics of Weakly Ion Acoustic Waves with Maxwellian Electron Distributions: The Role of Damping and Sinusoidal External Forces	
Poster Session						

June 7 2024	June 7, 2024					
	Room: CHUANCHOM 2					
	Symposium: Mathematics, Computational & Numerical Physics (S5-3)					
	Chair	**Asst. Prof. Dr. Pitiporn Thanomngam**				
	Co-chair	**Assoc. Prof. Dr. Papichaya Chaisakul**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:30	0:30	S5-INV2	Assoc. Prof. Dr. Thanayut Kaewmaraya	Two-dimensional Materials as Cathode Host for Inhibiting Polysulfide Shuttling and Promoting Kinetics in Metal–Sulfur Batteries
	9:30	9:45	0:15	S5-O-70	Thanasee Thanasarnsurapong	Investigation of Hydrogen Storage Potential in Monolayer Y2C MXenes using First-Principles Calculations
	9:45	10:00	0:15	S5-O-77	Suchanuch Sringamprom	Two-dimensional Penta-BeAs2 as a Promising Gas Sensor by using First-principles Calculations
	10:00	10:15	0:15	S5-O-311	Tisorn Na phattalung	Empirical and Numerical Analysis of the Dynamics of Euler's Pendulum
	10:15	10:30	0:15	S5-O-5	Idris Sani Salisu	Application of Glauber Model in Identifying the Halo Structure of Neon Nuclei Cluster by Determining Its Removal Cross Section
	Coffee Break					

Symposium 6: Quantum Physics and Technology

June 6 2024						
	June 6, 2024					
	Room: ORCHID					
	Symposium: Quantum Physics & Technology (S6-1)					
	Chair	**Asst. Prof. Dr. Pruet Kalasuwan**				
	Co-chair	**Dr. Nithiwadee Thaicharoen**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:30	0:30	S6-KEY	Assoc. Prof. Dr. Areeya Chantasri	Quantum Measurement, Estimation, And Control, All Continuous in Time
	13:30	13:45	0:15	S6-O-21	Kasidit Srimahajariyapong	Potentials and Limitations of Analog Quantum Simulators in Variational Quantum Algorithms (VQAs)
	13:45	14:00	0:15	S6-O-23	Konstantin Zloshchastiev	Modern Quantum-Statistical Approach to Open Systems
	14:00	14:15	0:15	S6-O-47	Chayapon Thunsetkul	Quantum Approximation Algorithm with Efficient Resource Allocation for Loan-Collection Optimization
	14:15	14:30	0:15	S6-O-55	Chattamas Manoworakul	Parameter Calibration for Transmon Qubit Experiments using Sequential Monte Carlo Method
	14:30	14:45	0:15	S6-O-174	Worapon Jenpanichwong	Ab Initio Investigation for Spin Coherence Dynamics of the Molecular Qubits at Room Temperature
	14:45	15:00	0:15	S6-O-254	Nutchaya Palakachen	Temperature Effects on the Stability of the Hong-Ou-Mandel Dip
	Coffee Break					
	Symposium: Quantum Physics & Technology (S6-2)					
	Chair	**Assoc. Prof. Dr. Areeya Chantasri**				
	Co-chair	**Dr. Nithiwadee Thaicharoen**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	15:15	15:45	0:30	S6-INV1	Asst. Prof. Dr. Pruet Kalasuwan	Exploring the Realm of Quantum Communication within the Context of Thailand
	15:45	16:00	0:15	**QTRic**		
	16:00	16:15	0:15			
	16:15	16:30	0:15			
	16:30	16:45	0:15			
	Poster Session					

June 7 2024						
	June 7, 2024					
	Room: ORCHID					
	Symposium: Quantum Physics & Technology (S6-3)					
	Chair	**Dr. Thiparat Chotibut**				
	Co-chair	**Asst. Prof. Dr. Prathan Buranasiri**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:30	0:30	S6-INV2	Prof. Dr. Yoshiaki Yasuno	Contrast Augmentation of Optical Coherence Tomography by Computational Methods
	9:30	9:45	0:15	S6-O-322	Koraat Petchrat	Imaging and Finding Joint Probability Distribution with a Single-Photon Avalanche Diode Camera and an Intensified Complementary Metal Oxide Semiconductor Camera
	9:45	10:00	0:15	S6-O-145	Pongpol Parkprom	Aberration Correction of Optical Dipole-Traps Array Utilizing Phase-Modulated Holographic Technique
	10:00	10:15	0:15	S6-O-284	Autpittayakul Aketasaeng	Optimization of Photolithography Exposure Dose for the Fabrication of Electrode Pad of Nb Based Josephson Junction
	10:15	10:30	0:15	S6-O-74	Napoom Thooppanom	Real-Time Vector Magnetometry with Quantum Diamond Sensor
	Coffee Break					
	Poster Session					
	Lunch					
	Symposium: Quantum Physics & Technology (S6-4)					
	Chair	**Dr. Nithiwadee Thaicharoen**				
	Co-chair	**Dr. Thiparat Chotibut**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:15	0:15	S6-O-118	Kritsana Saego	Indirect Control of 13C Nuclear Spin in Nitrogen Vacancy Center in Diamond
	13:15	13:30	0:15	S6-O-123	Masahiro Daibo	Development of an Elliptically Polarized Single-Beam Optically Pumped Atomic Magneto-Gradiometer
	13:30	13:45	0:15	S6-O-134	Perawit Boonsomchua	The Dynamics of Quantum Entangled Bipartite System via Feynman Path Integrals
	13:45	14:00	0:15	S6-O-95	Apiwit Kaewko	Spectroscopic Characterization of Homemade Vapor Cells
	14:00	14:15	0:15	S6-O-208	Prin Insang	Optimization of Magnetic Field for Cold Rubidium Atoms Preparation
	14:15	14:30	0:15	S6-O-230	Kitisak Ketiam	Simulation of Rydberg Electromagnetically-Induced Transparency for Pulsed RF Field Measurement
	14:30	14:45	0:15	S6-O-253	Matachan Oupatam	Evaluating Quantum State Verification for d-Level Stabilizer States

Symposium 7: Optical Physics and Technology

June 6 2024						
June 6, 2024						
Room: CHUANCHOM 1						
Symposium: Optical Physics & Technology (S7-1)						
Chair	**Dr. Witoon Yindeesuk**					
Co-chair	**Asst. Prof. Dr. Keerayoot Srinuanjan**					
Start	**End**	**Duration**	**Code**	**Speaker**	**Title**	
13:30	14:00	0:30	S7-KEY	Assoc. Prof. Dr. Nattaporn Chattham	Exploring Molecular Orientation in Smectic Liquid Crystal Films Induced by Mass Flux:	
14:00	14:30	0:30	S7-INV1	Jayasankar C K	An Overview of Visible and Infrared Down- and Up-Conversion Luminescence Properties of Er^{3+}-Doped Glasses for Photonic Applications	
14:30	14:45	0:15	S7-O-26	Wiraphat Thanyaphirak	Analysis of Optical Dynamics and Spectroscopic Phenomena of Praseodymium-doped Phospho-Tellurite Glasses for Visible Luminescence Devices	
14:45	15:00	0:15	S7-O-27	Nattaporn Mahingsa	Study of the Effect of Doping Dysprosium Ions in Borosilicate Glass using Microwave Techniques for White-Light Application	
Coffee Break						
Symposium: Optical Physics & Technology (S7-2)						
Chair	**Prof. Dr. C.K. Jayasankar**					
Co-chair	**Assoc. Prof. Dr. Nattaporn Chattham**					
Start	**End**	**Duration**	**Code**	**Speaker**	**Title**	
15:15	15:45	0:30	S7-INV2	Assoc. Prof. Dr. Amarin Ratanavis	Development of Laser Systems and Applications	
15:45	16:00	0:15	S7-O-97	Narongrit Peansin	Laser Frequency Stabilization using Pound-Drever-Hall Technique	
16:00	16:15	0:15	S7-O-163	Kanokwan Nontapot	Traceability and Standard Method for Medical Laser Calibration in Thailand	
16:15	16:30	0:15	S7-O-223	Pornapa Artsang	Characterization of Instrument Line Shape in a Laboratory Fourier Transform Infrared (FTIR) Spectrograph Utilizing a Polka-Dot Beamsplitter	
16:30	16:45	0:15	S7-O-111	Supawit Sungthong	The Simulation of the Three-Dimensional Optical Tweezers Pattern	
Poster Session						

June 7 2024						
	June 7, 2024					
	Room: CHUANCHOM 1					
	Symposium: Optical Physics & Technology (S7-3)					
	Chair	**Asst. Prof. Dr. Keerayoot Srinuanjan**				
	Co-chair	**Surachart Kamoldilok**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:30	0:30	S7-INV3	Asst. Prof. Dr. Chat Teeka	Artificial Intelligence in Meta–Optics
	9:30	9:45	0:15	S7-O-158	Nuttawat Khammata	Investigation and Characterization of Beam Splitters for the Time-Resoled Terahertz Spectroscopy System at PCELL
	9:45	10:00	0:15	S7-O-349	Pakorn Prajuabwan	The Effect of Airholes (Concave Lens) as the Light Scatter in Light Guide Plate Attached with Red and Blue Light Emitting Diodes as Artificial Lighting for Plant Illumination
	10:00	10:15	0:15	S7-O-196	Pakorn Prajuabwan	Application of Light Guide Plate and Light Emitting Diode for Plant Illumination by using Drilling Holes as the Light Scatter
	10:15	10:30	0:15	S7-O-334	Witoon Yindeesuk	Comparing the Interferometry Applications between the Michelson Interferometer and the Sagnac Interferometer
	Coffee Break					
	Poster Session					
	Lunch					
	Symposium: Optical Physics & Technology (S7-4)					
	Chair	**Asst. Prof. Dr. Chat Teeka**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:15	0:15	S7-O-28	Pattraporn Saengka	Study of Physical and Optical Properties of Cobalt Oxide Doped Glass Prepared by Microwave Melting Technique
	13:15	13:30	0:15	S7-O-331	Suebtarkul Suchat	Photorefractive Effect in a Cracked Cerium Doped Barium Titanate Crystal
	13:30	13:45	0:15	S7-O-35	Tibodee Mandee	Spectrum and Color Analyses for 3D Color Printing on Translucent Materials
	13:45	14:00	0:15	S7-O-6	Titaporn Supasri	Simulation of Optical and Mechanical Design for the Atmospheric LiDAR System

Symposium 8: Applied Physics and Technology, Biophysics, Nano-physics and others

June 6 2024						
	June 6, 2024					
	Room: DA LHA					
	Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-1)					
	Chair	**Assoc. Prof. Dr. Prayoonsak Pluengphon**				
	Co-chair	**Assoc. Prof. Dr. Rachsak Sakdanuphab**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:30	0:30	S8-KEY	Assoc. Prof. Dr. Jessada Chureemart	Physics and Engineering in the Application of Magnetic Recording Technology
	13:30	13:45	0:15	S8-O-17	Prasong Kessaratikoon	A Study on Environmental Radionuclides Transfer from Paddy Soil-to-Sangyod Rice Grain (TF values) in Na Pakho Sub-District, Bang Kaeo District, Phatthalung Province, Thailand
	13:45	14:00	0:15	S8-O-40	Warit Songsri	Rapid Portable Anemia Classifier for Non-Invasive Detection using Optical Absorption Technique.
	14:00	14:15	0:15	S8-O-49	Nonthanan Sitpathom	Highly Uniform Plasmonic Microstructures for Surface-Enhanced Raman Scattering Applications
	14:15	14:30	0:15	S8-O-58	Kuntapon Kongtago	The Impact of Soil Characteristics on Seismic Amplification in Tokyo: An Analysis using Linear Regression Models
	14:30	14:45	0:15	S8-O-60	Chutimon Suebka	The Study of Calibration of Automatic Catch-Weighing Instruments in Dynamic Mode According to EURAMET Calibration Guide No. 26
	14:45	15:00	0:15	S8-O-108	Sangsanthiphon Withunyut	Development of Activated Carbon/Amine Composite Materials for Carbon Dioxide Capture
	Coffee Break					
	Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-2)					
	Chair	**Assoc. Prof. Dr. Jessada Chureemart**				
	Co-chair	**Assoc. Prof. Dr. Rachsak Sakdanuphab**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	15:15	15:45	0:30	S8-INV1	Assoc. Prof. Dr. Soodkhet Projprapai	A Case Study of Suratec: From Research to a Startup
	15:45	16:00	0:15	S8-O-137	Ekkanat Prawanta	Head-Related Transfer Function for the Measurements of Otoacoustic Emissions Evoked by Localized Sound Sources
	16:00	16:15	0:15	S8-O-140	Mussatorn Promachan	Unlocking the Potential for Fast Charging through Exploration of the Influence of Critical Current Density on the Morphology of Sodium Metal Batteries
	16:15	16:30	0:15	S8-O-142	Parita Jumpaburee	Exploring the Effects of Different External Pressures on Sodium Deposition Behavior in Sodium Anode-Free Batteries through an In-Depth Investigation
	16:30	16:45	0:15	S8-O-151	Teerapat Kotpatjim	Composite Membranes with Zn-MOFs for Potential use in Electrochemical Devices
	Poster Session					

June 7 2024						
	June 7, 2024					
	Room: DA LHA					
	Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-3)					
	Chair	**Assoc. Prof. Dr. Jessada Chureemart**				
	Co-chair	**Assoc. Prof. Dr. Phanwadee Chureemart**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	9:00	9:30	0:30	S8-INV2	Assoc. Prof. Dr. Ratchanok Somphonsane	Inducing Spin-Dependent Functionality in 2D Semiconductors
	9:30	9:45	0:15	S8-O-4	Raymond J Ritchie	Transient Square Pulse-Electric Field Induction of Monosex-Male Reversal of the Eggs of Nile Tilapia (*Oreochromis Niloticus L., Chitralada*)
	9:45	10:00	0:15	S8-O-152	Anantachai Lakrathok	Optimization of the Comb-Drive and Sense Actuator and Spring Geometries to Reduce Asymmetric Lateral Plasma Etching on the Cavity SOI Substrate for MEMS Fabrication
	10:00	10:15	0:15	S8-O-153	Inthu-on Sutthiraksa	Finite Size Effect on the Reader Performance
	10:15	10:30	0:15	S8-O-154	Amika Chinnajuk	Synthesis and Characterization of Polyethylene Terephthalate Wastes as a Linker Source in Copper-Based Metal-Organic Frameworks
	Coffee Break					
	Poster Session					
	Lunch					
	Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-4)					
	Chair	**Assoc. Prof. Dr. Prayoonsak Pluengphon**				
	Co-chair	**Assoc. Prof. Dr. Jatuporn Thongsri**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	10:45	11:00	0:15	S8-O-156	Taworn Intaro	Electrochemical Sensor for Detect Chlorpyrifos Pesticides in Vegetables
	11:00	11:15	0:15	S8-O-160	Rungtawan Khamtawi	Advanced Micromagnetic Model of Reader in Hard Disk Drive
	11:15	11:30	0:15	S8-O-161	Khanitta Yuanmae	Comparison of Bit Error Rate Calculation for HAMR: Atomistic Model Versus Multiscale Model
	11:30	11:45	0:15	S8-O-165	Thanapon Sinkruason	The Optimal Condition of L10/A1 FePt Magnetic Nanodot for the Application in Heated Dot Magnetic Recording Technology
	11:45	12:00	0:15	S8-O-166	Rattaphon Phoomatna	Temperature Impact Study on Signal to Noise Ratio in HAMR Technology
	Lunch					
	Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-5)					
	Chair	**Assoc. Prof. Dr. Jatuporn Thongsri**				
	Co-chair	**Assoc. Prof. Dr. Rachsak Sakdanuphab**				
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:15	0:15	S8-O-177	Ratthaphong Rang-ngoen	Atomistic Model of MTJ for the Application of Spin-Torque Nano-Oscillator
	13:15	13:30	0:15	S8-O-183	Ratchataphan Thammawat	Investigating the Deposition and Plating Behavior of Lithium in Li- Alloys Electrodes for Dendrite-Free Li Metal Batteries
	13:30	13:45	0:15	S8-O-201	Jatuporn Puntree	Personalized Human Speech Cancellation Using Synthesized Voice
	13:45	14:00	0:15	S8-O-205	Tretased Amtungpong	Effect of Geometry on the Performance of a Rotary Ionic Engine with Rotating Electrode and Counter-Electrode
	14:00	14:15	0:15	S8-O-219	Chayutpong Chaimongkol	Microseismicity Distribution in Chiang Mai Basin – Northern Thailand
	14:15	14:30	0:15	S8-O-225	Kanokwan Duchthuyawat	Enhancing Battery Performance through Investigation of Critical Sodium Excess in Sodium Metal Batteries
	14:30	14:45	0:15	S8-O-287	Naveen V. Kulkarni	Novel Cross-Linked PVA-iron Composites: Properties and Application in Dye Sensitized Solar Cell
	14:45	15:00	0:15	S8-O-341	Wiranya Chomphurach	The Effect of MgO Thickness on the Performance of Reader

Symposium 9: High Energy and Particles Physics

June 6 2024

June 6, 2024

Room: MALI

Symposium: High Energy & Particles Physics (S9-1)

Chair	**Prof. Dr. Wisanu Pecharapa**
Co-chair	**Dr. Pinit Kidkhunthod**

Start	End	Duration	Code	Speaker	Title
13:00	13:30	0:30	S9-INV1	Asst. Prof. Dr. Norraphat Srimanobhas	Highlights from Flavor Physics and CP Violation Conference 2024
13:30	13:45	0:15	S9-O-45	Krittaporn Anukulkich	High Order Cumulants of Net-Proton Number in $Au^{+}Au$ Collision at 14.5 GeV, 16.5 GeV, and 19.6 GeV by Using UrQMD Model
13:45	14:00	0:15	S9-O-52	Zheng Zhao	Charmonium-Like Tetraquark Mass Spectrum
14:00	14:15	0:15	S9-O-61	Warissara Tangyotkhajorn	Bandwidth Analysis for a Combined Horizontal and Vertical Correcting Magnet for Siam Photon Source II
14:15	14:30	0:15	S9-O-63	Ek-ong Atthaphan	Determining the Meson Clouds Contribution of Nucleon Electromagnetic Form Factor Using Dispersion Relation
14:30	14:45	0:15	S9-O-80	Kai Xu	Light and Hidden-Charm Pentaquark States in Molecular and Pentaquark Pictures
14:45	15:00	0:15	S9-O-88	Jetnipit Kaewjai	Study of the Cluster Size of a Monolithic Active Pixel Sensor using a Sr-90 Source

Coffee Break

Symposium: Applied Physics &Technology, Biophysics, Nano-physics and others (S8-2)

Chair	**Asst. Prof. Dr. Norraphat Srimanobhas**
Co-chair	

Start	End	Duration	Code	Speaker	Title
15:15	15:45	0:30	S9-INV2	Dr. Pinit Kidkhunthod	Hard X-ray Absorption Spectroscopy (HXAS) Beamline at the New 3 GeV SPS-II
15:45	16:00	0:15	S9-O-89	Apiwit Kittiratpattana	(Hyper)Nuclei Production in Pion Induced Reactions with p_lab=1.7 GeV/c at HADES
16:00	16:15	0:15	S9-O-102	suppawit polkong	Greybody Factor for a Massive Scalar Field in Schwarzschild and Reissner–Nordström Black Holes
16:15	16:30	0:15	S9-O-107	Woradon Sophonamphonsucha	Study of the Light Production and Transmission to Observe the Efficiency of the Range Counter Particle Detector for COMET Phase-alpha Collaboration
16:30	16:45	0:15	S9-O-121	Sarawit Chindaratchakul	Simulation of the Detection of Light Ions Detection for a Luna Orbiter Detector to Evaluate Geometrical Acceptance and Estimate Detection Count Rate using GEANT4

Poster Session

June 7 2024	June 7, 2024					
	Room: PAKA KRONG					
	Symposium: High Energy & Particles Physics (S9-3)					
	Chair	**Assoc. Prof. Dr. Somsak Dangtip**				
	Co-chair					
	Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
	13:00	13:15	0:15	S9-O-122	Wararat Treesukrat	Upper Limits of Dark Matter Mass in the Inert Doublet Model
	13:15	13:30	0:15	S9-O-128	Wassachon Kammeemoon	Analysis of Solar Energetic Particles Directional Distribution from the 70th Ground Level Enhancement Event using Polar Neutron Monitor Data
	13:30	13:45	0:15	S9-O-146	Punnawich Chokeprasert	Search for Additional Higgs Bosons in Fermionic Final States with the CMS Experiment
	13:45	14:00	0:15	S9-O-199	Bpoon Prapaso	Effect of the Magnetic Field on Relativistic Runaway Electron Avalanche (RREA)
	14:00	14:15	0:15	S9-O-221	Moh Moh Aung	Electromagnetic form Factors of Delta-N Transition
	14:15	14:30	0:15	S9-O-233	Nopporn Poolyarat	Thailand Tokamak-1: the Correlation of Plasma Current, Electron Temperature and Electron Density During the 1st Commissioning Period.

Symposium 10: Plasma, Radiation, Nuclear Physics and Technology

June 6 2024

June 6, 2024					
Room: KULCHORN					
Symposium: Plasma, Radiation, Nuclear Physics and Technology (S10-1)					
Chair	**Assoc. Prof. Dr. Porramain Porjai**				
Co-chair					
Start	End	Duration	Code	Speaker	Title
13:00	13:30	0:30	S10-KEY	Assoc. Prof. Dr. Somsak Dangtip	Capability Building and Networking for Fusion Technology through the First Tokamak of Thailand (TT-1)
13:30	13:45	0:15	S10-O-252	Taweesak Jitsuk	Nonlinear Multi-Scale Interactions of MHD and Microturbulence in Magnetically Confined Plasmas
13:45	14:00	0:15	S10-O-257	suriya phongmoo	Cold Air Plasma: Emerging Technology for Agro-Livestock Quality and Productivity Amidst Climate Change
14:00	14:15	0:15	S10-O-271	Watchara Kumkrong	Measurement of Thermal Effect on Signal Pulse Height of a Silicon PIN Prototype Detector Signal Pulse Height
14:15	14:30	0:15	S10-O-272	Sunruthai Burom	Development of Charge Sensitive Preamplifier for Space-Based Silicon PIN Detector on POISE
14:30	14:45	0:15	S10-O-280	Kanokkan Titipornpun	Health Risks due to Radon in Water and Indoor Radon in Dwellings Located in the Coastal Area of Bandon Bay, Kanchanadit District, Surat Thani Province, Southern Thailand
Coffee Break					
Symposium: Plasma, Radiation, Nuclear Physics and Technology (S10-2)					
Chair	**Assoc. Prof. Dr. Somsak Dangtip**				
Co-chair					
Start	**End**	**Duration**	**Code**	**Speaker**	**Title**
15:15	15:45	0:30	S10-INV1	Assoc. Prof. Dr. Porramain Porjai	Cold Plasma Technology for Agriculture and Food
15:45	16:00	0:15	S10-O-318	Thiti Aungcharoen	L-I-H Transition Dynamics in Magnetically Confined Plasma
16:00	16:15	0:15	S10-O-346	Siriporn Angkunrat Auisui	Natural Radioactivity Concentration in Sediment Samples from the Coastal Area Bandon Bay, Kanchanadit District, Surat Thani Province
Poster Session					

Poster Presentation

Symposium 1: Physics Innovation and Education

Code	Author/Presenter	Title
S1-P-41	Rinda Sutasri	Active Learning through the STEM Process using the Framecount Application to Participate in Experiments to Increase Learning Achievement in Free Fall Motion
S1-P-59	Tiantada Hiranyachattada	Hands-on Demonstrations of Subsurface Scattering Effects using Edible Material for Enhanced Realism Image Rendering
S1-P-67	Matchima Wangphimun	The Development of Teaching and Learning Apparatus Based on the Simulation of Exoplanet Detection by the Transit Method
S1-P-78	Phollakrit Suphaphon	TTEPS: Transpiration and Transportation Driven Electrokinetic Power Source
S1-P-103	Nitat Sripongpun	Machine Learning for Predicting Projectile Motion with and without Air Resistance
S1-P-130	Preedaporn Suwandee	Management of Experiential Learning for Third-Year Physics Education Students: Hands-Free Glider.
S1-P-169	Nisakorn Kaewmai	Design and Development of STEAM Education using Tangram Puzzles for Learning Management in the Topic of Center of Mass
S1-P-190	Porrutai Chinkrnjanaroj	Study and Testing of a Simplified Protocol Design for Hashed Data Transport via Quantum Channels to Enhance Security in Personal Data Authentication Process
S1-P-192	Kitisak Boonkham	Enhancing Scientific Literacy in Alignment with PISA Framework through DIY Dynamo-Based Learning Activities in Wind Energy Production for Science High School Students
S1-P-193	Thanyanan Somnam	An Alternative Approach to Fostering Critical Thinking, Creativity, and Technology Integration in Twenty-first Century Education: A Case Study of Mahidol Wittayanusorn School
S1-P-203	Kongkeat Khongpagdee	Comparing Half-Life: Data from Radioactive Dice Experiment Versus Mathematical Models from New Approach
S1-P-211	Noparit Jinuntuya	Propagation of Uncertainty with Arbitrarily Distributions by Kernel Density Estimator Method
S1-P-215	Chanakan Grosseau	Effectiveness of Integrated Learning Activity (U-Tube Activity) in Laboratory
S1-P-236	Chainarong Taepanich	Using Machine Learning to Predict the Relation between Numbers of Particles and Sound Intensity and Frequency
S1-P-243	Sumaman Buntoung	Development of an Apparatus for 1- and 2-Dimensional Collisions Experiment using a Smartphone
S1-P-269	Pattareeya Damrongsak	Development of Hall Effect Sensor with Raspberry Pi Pico Microcontroller Board for Low-Cost Magnetic Field Measurement System
S1-P-275	Darapan Chotiphun	A Simple and Low-Cost Experimental Setup based on RP2040 Microcontroller for the Investigation of Newton's Law of Cooling
S1-P-332	Yongyut Kaewjumras	Employing LVDT Demonstration Kit for Cylinder Size Measurement in Engine
S1-P-347	Sutthipoj wongrerkdee	Development of a Robotic Dust Cleaner Controlled using Arduino Microcontroller for Solar Panel Maintenance
S1-P-356	Arunee Eambaipreuk	Assessing Pre-Service Science Teacher's Understanding of Physics Laboratory Skill in Measurement and Uncertainty

Symposium 2: Condensed Matters and Materials Physics

Code	Author/Presenter	Title
S2-P-30	Natchapon Rattanaanothaikul	The Effect of Chitosan on the Structural, Physical, and Chemical Properties of Polyvinylpyrrolidone Matrix for the Application in Dissolving Materials
S2-P-44	Natchanon Moeikhunmak	Transparency and Conductivity with Joule Heating Temperature of Indium Tin Oxide Thin Film on a Glass Substrate Prepared by RF-Sputtering
S2-P-56	Jakkree Boonlakhorn	Enhancing Permittivity While Reducing Loss Tangent in Ni^{2+}-doped CCTO Ceramics
S2-P-86	Porpieng Kullohamongkol	Thermodynamic and Structural Analysis of Proximity-Induced Transitions in Surface-Grafted Polymer Pairs
S2-P-91	Natthapong Jampaiboon	First-Principles Study of Amorphous Hafnium Dodecaboride
S2-P-92	Prachtrakool Koking	Enhanced Stability of Perovskite Solar Cells through Addition of 5-Ammonium Valeric Acid Iodide
S2-P-93	Boonlit Krunavakarn	Critical Temperature Oscillations Controlled by Vortex Switching in Hybrid Ferromagnet-Superconductor Structures
S2-P-96	Pitchanunt Chaiyo	Synthesis and Gas Sensing Properties of Tin Dioxide Nanostructures Materials for Ammonia Detection
S2-P-113	Jaruwan Seangrit	Preparation of Epoxy Resin Doped with PPO for Gamma Ray Detection
S2-P-116	Agnes Theresia Sebayang	Synthesis CMC (Carboxymethyl Cellulose) by using Coffee Grounds for Bioplastic Packaging Application
S2-P-119	Tanatchaya Seesan	Synthesis of Reduced Graphene Oxide Quantum Dots (rGO-QDs) via Optimized Hydrothermal Process for Thermoelectric Material Enhancement
S2-P-197	Teerayut Uwanno	Eco-Friendly Synthesis of Reduced Graphene Oxide from Agricultural Waste for Electrodes in Capacitive Deionization Applications
S2-P-212	Prachit Khongrattana	Exploring Properties of Sn^{4+}-Doped $CaCu_3Ti_4O_{12}$ Ceramics: Structure, Dielectric, and Electrical Characteristics
S2-P-235	Kuntima Pattanarat	Effect of PEI on Thermoelectric Properties of MWCNT/PEDOT:PSS for Textile-Based Temperature Sensors
S2-P-242	Sutthipoj wongrerkdee	Copper Compound Nanoparticles Synthesized using Electrochemical Process in Mixing Solution of Citric Acid and Potassium Chloride
S2-P-247	Junkrajang Wattana	Effect of Al Dopant on Physical and Optical Properties of Er-Doped CuS Prepared by Co-Precipitation Process
S2-P-276	Pisek Sagapanee	Investigating Superconductivity in Flat and Cylindrical Wire Structures with Ginzburg-Landau Theory
S2-P-279	Suthima Supokaiwanit	Temperature Dependent Magnetic Force Microscopy Study of Fe and FeV Thin Films
S2-P-281	Atsakorn Chuenkruit	Preparation of WO_3 on TiO_2 Nanotubes for Electrochromic-Enhanced Photocatalytic Activity
S2-P-282	Anunyapon Junmanee	Effect of Raman Laser Intensity on the Stability of VO_2 Samples
S2-P-286	Atipon Panpar	Study of Piezoelectric Property of Polyvinylidene Fluoride Filled with Reduced Graphene Oxide using Electrospinning and Film Casting
S2-P-290	Praewwanit Thampitak	Impact of External Magnetic Fields on Phase Transitions in Two-Dimensional Hexagonal Ising Systems: A Wang-Landau Approach
S2-P-293	Raumporn Thongruang	X-ray Fluorescence Spectroscopy Features of Silver Nanoparticle-Decorated Zinc Oxide Nanoflowers
S2-P-295	Tirapat Wechprasit	Structural, Optical, and Morphological Properties and X-Ray Absorption Spectroscopic Study of Local Structures of Bi-Doped $FAPbI_3$ Films
S2-P-297	Panwasa Pleansin	Modification of the Electron Transport Layer in Perovskite Solar Cells using Carbon Dots
S2-P-298	Musalimin Dacharun	Effect of Carbon Dots Interlayer on Carbon-Based Perovskite Solar Cells
S2-P-299	Pimpisa Maisuwan	Preparation and Synthesis of NiO and Reduced Graphene Oxide Derived from Oil Palm Petioles Mixed PEDOT:PSS for Counter Electrodes in Dye-Sensitized Solar Cells
S2-P-300	Pornchanok Ngaophithaksinlapin	Fabrication of 3D Network Peanut Shells Carbon and Nickel Sulphide Counter Electrodes for Dye Sensitized Solar Cells
S2-P-301	Benyapha Sangtong	Enhanced Photoconductive Detection by using Reduced Graphene Oxide/Silver Nanoparticle Composites
S2-P-308	Theerachai Bongkarn	Simplified Combustion Technique to Synthesize Nano Powders and High-Performance Multiferroic 0.1BLTO-0.9CZFO Composite Ceramic

S2-P-310	Nipaphat Charoenthai	The Influence of the Firing Temperatures on the Microstructure, Dielectric, and Magnetic Properties of Mn-Zn-Ni Spinel Ferrites Synthesized by Solid-State Combustion Technique
S2-P-312	Wimutti Kumpor	The Preparation of $SiO_2/Fe_3O_4/Pt$,W by Sputtering Technique for Spin Seebeck Effect
S2-P-313	Theerachai Bongkarn	Effect of BTS Content on Microstructure and Dielectric Properties of 0-3 BTS/ACSA Cement Composites
S2-P-315	Nithiporn Photimas	The Co-Sputtering of $Y_3Fe_5O_{12}$ and LSMO Ferrimagnetic Materials for Spin Seebeck Effect
S2-P-319	Woranuch Sudthongkong	Investigating the Optical, Electrical, and Physical Properties of Graphite-Like Carbon Derived from Durian Peels
S2-P-321	Sudarat Khwanmueang	Synthesis and Characterization of Carbon Films Derived from Wolffia Globosa
S2-P-329	Pawinee Klangtakai	Development of Carbon Dioxide Adsorbents via Composite Formation of Metal-Organic Framework (ZIF-67) and Reduced Graphene Oxide
S2-P-350	Chananyapat Wongsakulkhamkhot	The Large Thermal-Voltage of Yttrium Iron Oxide ($Y_3Fe_5O_{12}$)/Tungsten (W) Hybrid Structure on Spin Seebeck Effect Measurement
S2-P-353	Wantana Koetniyom	Flavonoid Extraction from Mango Peels for Nanoparticles by Green Synthesis Process
S2-P-355	Aewittra Banchuen	Observation of Anomalous Nernst Effect in Graphite
S2-P-359	Narit Triamnak	Effect of Glass Fiber Reinforced Polymer Composite Rebar Size on Mechanical Properties

Symposium 3: Astronomy, Astrophysics and Cosmology

Code	Author/Presenter	Title
S3-P-37	Kanthanakorn Noysena	Optical Counterparts and Follow up Gravitational Wave Events of the O4a Observing Run of LIGO and Virgo
S3-P-104	Markos Aguirre Elorza	Optimal Selection of Reference Stars for Exoplanet Light Curves
S3-P-182	Thana Yeeram	27-day Variations of Space Climate and Space Weather: The Power Input to the Magnetosphere
S3-P-195	Grit Saowanit	Enhancing Planck All-Sky Maps through Fourier Transform-Based Smoothing
S3-P-213	Sukanya Meethong	Temporal and Spatial Variation of Methane Lines in High-Resolution Spectra of Jupiter
S3-P-218	Tinnapat Meeboon	A Single-Image Approach to Identify Non-Registered Astronomical Objects within a Wide Field-of-View Astronomical Image for Optical Transient Identification
S3-P-222	Ronnakrit Rattanamala	Orbital Period Change of a Close Binary Star V2802 Orionis
S3-P-245	Nattaporn Thongphaijit	Evolution of Axial Ratio Distribution of Galaxies at $z < 6$ with Early Data Release of JWST
S3-P-248	Watchara Khanakorn	Astronomical Seeing Measurements at Faculty of Science Khon Kaen University
S3-P-250	Thanawat Anusonthi	Thermodynamic Stability of Schwarzschild-de Sitter Black Holes with Rényi Entropy
S3-P-265	Thiranee Khumlumlert	An Analysis of the Solar Flare Event and Space Weather on the Peak of Solar Cycle 23-25
S3-P-289	Patcharawee Munsaket	A Machine Learning-Based Alternative Method for Exoplanet Retrieval
S3-P-306	Patapong Panpiboon	LSTM Model for Thermospheric Density Prediction during the Moderate Geomagnetic Storms

Symposium 4: Accelerator and Synchrotron Radiation

Code	Author/Presenter	Title
S4-P-9	Siriwan Jummunt	Study and Development of Beam Loss Monitor for the SPS Storage Ring
S4-P-68	Prapaiwan Sunwong	Effects of Eddy Current and Permeability of Vacuum Chamber in Booster Synchrotron of Siam Photon Source II

Symposium 5: Mathematics, Computational and Numerical Physics

Code	Author/Presenter	Title
S5-P-25	Sujittra Ratjiranukool	Potential Evapotranspiration Estimation Over Northern Thailand by Thornthwaite Method
S5-P-43	Prayoonsak Pluengphon	Transition Metal-doped and Pressure-induced Hydrogen Dehydrogenation of the K-Mg-H System: Ab Initio Study for Hydrogen Storage Improvement
S5-P-57	Pimpunyawat Tummuangpak	The 3D Modeling of Heat Transfer in Soil using Finite Difference Method
S5-P-66	Pawitra Aim-O	Radiation Safety Design for Gas Bremsstrahlung and Synchrotron Radiation in SPS-II Multipole Wiggler Beamline
S5-P-76	Thanapon Klaewphaipan	Enhancing Weather Forecasting Accuracy in Thailand through Microphysics Scheme Optimization

Symposium 6: Quantum Physics and Technology

Code	Author/Presenter	Title
S6-P-12	Wilasinee Kingkam	Removal of Textile Dyes from Wastewater: A Study of γ-irradiation on Adsorption and Physicochemical Properties of Diatomaceous Earth
S6-P-127	Wirunwit Worawirat	Quantum State Purification by Feedback Control on Qiskit IBM-Q
S6-P-157	Tosanut Rimprongern	Development of Polarization-Based Demonstration Kits for Quantum Key Distribution
S6-P-327	Korakot Onlaor	Green Synthesis of NiO Nanoparticles using Ocimum Tenuiflorum Leaf Extract for Memory Device Application
S6-P-351	Thanapat Phetvongsakul	First Occurrence Technique for Three-Detector Measurement of Photon Correlation
S6-P-352	Jeerasak Phu-arphit	The Effect of a Quarter Wave-Plate on Two-photon Quantum State from a Portable Entangled Light Source
S6-P-354	Panawat Wongklaew	Heralded Single-Photon Sources with On-Chip Heralding Detectors

Symposium 7: Optical Physics and Technology

Code	Author/Presenter	Title
S7-P-31	Santhad Pitakwongsaporn	Optimizing Energy Efficiency of Adiabatic Frequency Conversion in Add-Drop Resonators
S7-P-32	Patarawagee Yasaka	Development of Orange-Emitting Sm_2O_3-Doped Tellurite Glasses Prepared for Solid State Lighting
S7-P-34	Nantameth Sringam	Studying Thermal Expansion and Thermal Cooling of Solids by Interference Pattern using Michelson Interferometer
S7-P-72	Thada Keawprasert	Improving Photometric Scale based on Spectral Irradiance Responsivity at NIMT
S7-P-117	Thitiya Seesan	Deep-Learning-Based Scatterer Density Estimation from Speckle of Optical Coherence Tomography and Its Application to Assessing Age-related Changes of the Human Eye
S7-P-214	Anuwat Kaewcharoon	Simulation of Evanescent Field Trapping by Optical Nanofiber
S7-P-239	Siwaporn Khemphet	Surface Plasmons of Gold Nanoparticles Enhanced Ultraviolet Photoresponsivity of Zinc Oxide Nanoflowers
S7-P-268	Kachain Dangudom	Exploring Phosphorescent Materials: Luminescence Properties and Traffic Safety Applications
S7-P-325	Keerayoot Srinuanjan	Manipulating Polarization via Optical Fiber Twisting and Michaelson Interferometer for Optical Switch Applications
S7-P-339	Thammarat Taengtang	Studying Air's Refractive Indexes Changed Pressure and Temperature by 1D Metal-Dielectric Photonic Crystal

Symposium 8: Applied Physics and Technology, Biophysics, Nano-physics and others

Code	Author/Presenter	Title
S8-P-38	Nuttakrit Somdock	Development of Measuring Moisture Wood Content using Capacitive Sensing Techniques
S8-P-39	Nuttakrit Somdock	Development of Smart Medicine Box using IoT
S8-P-51	Umpon Jairuk	Non-Invasive Blood Glucose Measurement using Near-Infrared Spectroscopy and Microcontroller Equipment
S8-P-73	Chayanan Boonrawd	The Effect of the Pre-Vulcanization Time on the Porous Structure Preservation of Silica Aerogel/Natural Rubber Composite
S8-P-75	Natakorn Sapermsap	Development of a Fluorescence Lifetime Spectroscopy System with Multicolor-Excitation
S8-P-82	Marina Mani	Equilibrium Moisture Sorption Isotherm of Kaempfer
S8-P-109	Phatcharin Phumuen	Electrochemical Properties of $Ni(OH)_2$ for Supercapacitor Applications
S8-P-110	Nannaphat Kiatkaiwansiri	Activated Carbons Derived from Water Hyacinth for a Green Supercapacitor
S8-P-112	Wassana Wannabut	Room-Temperature Synthesis of Co-ZIF-67 for Supercapacitor Application
S8-P-147	Suphansa Chansuriya	Synthesis and Analysis of Au:Pd Nanoparticles by Substrate Removable Technique for Enhanced Catalytic Applications on Zno Gas Sensor
S8-P-149	Niyom Hongsith	Nyquist Plot and Equivalent Circuit Model for Capacitively Coupled Contactless Conductivity Detection (C4D) in ZnO and ZnO:Au:Pd Nanostructures Gas Sensors for VOC Detection
S8-P-167	Santi Raksawong	Assessing of Natural Radioactivity in Beach Sand from Tourist Beaches along Upper Gulf of Thailand Coast
S8-P-172	Nichanun Neamtad	Wastewater Treatment using Electrocoagulation Technology at Maejo University
S8-P-173	Panatcha Anusasananan	Investigating Air Pollution in Northern Thailand using Wavelet Analysis
S8-P-188	Panakamon Thonglor	Heavy Metals Removal in Aqueous Solution using Chitosan Coating onto Magnetite Nanoparticles
S8-P-189	Suteeporn Kidtang	Comparison of the Utilization of Arrowroot Starch, Corn Starch, and Polyvinylpyrrolidone (PVP) as Capping Agents for Synthesizing Silver Nanowires (AgNWs) using the Polyol Method for Applications in Flexible Transparent Electrodes

S8-P-200	Korntip Tohsing	Appling a Semi-Empirical Model for Estimating Hourly Diffuse Solar Radiation at the Main Regions of Thailand
S8-P-209	Thasapong Saibunpang	Effects of Radiation on Seed Germination Time for Vegetable Breeding: Chinese Spinach
S8-P-217	Traitot Lianghiranthaworn	Frequency-Based Characterization of Contactless Conductivity Detection with Coplanar Electrodes
S8-P-224	Sirirat Ouiganon	Application of SiPM in the Development of a High Performance Portable Fluorometer for CKD Screening
S8-P-231	Khattiya Chalapat	Design of MEMS-Based Force Sensors for Artificial Finger Tactile Perception
S8-P-234	Pornchanan Chanchot	Machine Learning-Analyzed Colorimetric Sensor for Smartphone-Based Ammonia Detection
S8-P-237	Apishok Tangtrakarn	$Cu(OH)_2/Ni(OH)_2$ as a Supercapacitor Electrode
S8-P-240	Chadapust Sudsiri	Effect of Magnetically Treated Water on Qualitatively Remove Malathion Contaminating in Vegetables
S8-P-244	Kewalee Nilgumhang	Effect of Discharge Electrode Material on Dust Collection Efficiency for Electrostatic Precipitator
S8-P-255	Benchapol Tunhoo	Low-Cost Electronic Nose for Perfume Odor Classification with Machine Learning
S8-P-256	Thutiyaporn Thiwawong	Preparation of Polyvinyl Alcohol Fibres by the Standing Wave Vibration Electrospinning
S8-P-266	Chalad Yuenyao	Physicochemical and Permeation Properties of PSF Composite Membranes Incorporated by High Surface Area Graphene Nanoplatelets
S8-P-267	Kritsada Hongsith	Flash Infrared Annealing as Cost-Effective Process for Perovskite Solar Cells Based on SnO_2 Quantum Dots
S8-P-273	Preeda Larpthavee	Optimization of Deterministic Lateral Displacement Microfluidics for Enhanced Particle Separation and Diagnostic Applications
S8-P-285	Sittidech Yomrum	Cosmic Ray Spectral Variation during 2018-2023 Indicated by the Neutron Monitor Leader Fraction at High Cutoff Rigidity
S8-P-296	Watcharaporn Thongjoon	Effects of Ions Type and Concentration of Electrolyte Solutions on the Electrochromic of WO_3 Films
S8-P-303	Darika Jaaoh	Enhancing Impact Resistance and Sustainability in Transportation Packaging: The Role of Cushioning Pads Made from Natural Rubber and Activated Carbon
S8-P-304	Jiraphong Sararat	Examining the Influence of Crystal Structure and Morphology on the Electrochemical Properties of Cobalt Sulfide Fabricated through Hydro/Solvothermal Techniques
S8-P-305	Apinan Jantee	Physical Properties of Copper Nitride Thin Film Deposited using Reactive DC Magnetron Sputtering for Photodetection
S8-P-307	Pat Kerdsomsri	The Investigate of Earth's Inner Core Variation Travel Time Beneath Thailand form PKP(AB)- PKP(DF) Times
S8-P-328	Keratiya Janpong	Design the Sensor for Measuring the Purity of Honey through Electric Conductivity.
S8-P-338	Arthit Sansomboon	Investigation of Garlic Drying with Novel Low-Cost Solar Dryer for Local Farming
S8-P-340	Sureerat Triosod	Hydrothermal Transforming Phase Structure and Chemical Composition of V_2O_5 for Elevating Electrochemical Property of Zinc Ion Batteries
S8-P-344	Tanyapa Sanyen	Investigation of $CuO/SiO_2/TiO_2$ Nanocomposite Films: Fabrication, Characterization, and Efficiency for Physical and Antimicrobial Properties
S8-P-345	Winadda Wongwiriyapan	Optimizing Lignocellulose Ratios in Activated Carbon for Enhanced Supercapacitor Performance
S8-P-357	Natchayaporn Sakulpeeb	Influence of Dragon Fruit Peels on the Synthesis of Antibacterial Nano Zinc Oxide (Nano-ZnO) via Green Synthesis Method
S8-P-358	Sikarek Uengsuwanpanich	Multifractal Analysis of Electrocardiogram Signals for Atrial Fibrillation Detection Based on Machine Learning Algorithms

Symposium 9: High Energy and Particles Physics

Code	Author/Presenter	Title
S9-P-19	Chawidpol Sangthong	Study of Neutron and Gamma-Ray Pulse Shape Discrimination Capability of Liquid EJ-301 Scintillation Detector in the Fast Neutron Laboratory
S9-P-20	Arreerat Kunkanha	Exploration of the Lost Runaway Electron via Bremsstrahlung Emission Analysis in the Thailand Tokamak-1 Utilizing MCNP Simulations
S9-P-131	Thanat Sangkhakrit	Radiative Decays of Xc1 States in the Picture of Triangle Singularities
S9-P-135	Atirat Pitaktrakul	Monte Carlo N-Particle (MCNP) Simulation of Neutron Flux at a Vertical Port in the Suranaree University of Technology Research Reactor (SUT-RR) Building
S9-P-159	Taksaporn Promjak	Study of Non-Relativistic Charmonium Mass Spectra in Cornell Potential by using Nikiforov-Uvarov Method
S9-P-181	Thawatchai Sudjai	Centroiding the Charge Cloud Footprint from a Microchannel Plate Detector using Machine Learning Techniques
S9-P-204	Suebsak Suksaengpanomrung	Estimation of Electron Temperature based on Hydrogen Gas in Thailand Tokamak-1
S9-P-229	Suphot Musiri	Analytical Perturbation of Schwarzschild Ads Black Hole Quasinormal Modes
S9-P-241	Attaphon Kaewsnod	Study of Substructure of $\Delta(1232)$ Resonance in $P\gamma \rightarrow \Delta(1232)$ Process
S9-P-260	Ratchaphat Nakarachinda	Thermodynamics of Black Holes with Rényi Entropy from Classical Gravity
S9-P-262	Patharadanai Nuchino	Supersymmetric Domain Walls in Maximal 6D Gauged Supergravity with Gauge Groups Embedded in SO(4,4)
S9-P-326	Tosaporn Angsachon	Noether Charge and Thermodynamics of a Black Hole in the Schwarzschild-Anti-de Sitter-Beltrami Spacetime
S9-P-348	Chaloemwut Duangsombat	Development of FPGA Algorithm for the Data Acquisition of a Compact Charged Particle Detector for Event Identification using dE-E Technique

Symposium 10: Plasma, Radiation, Nuclear Physics and Technology

Code	Author/Presenter	Title
S10-P-33	Apichart Siriwitpreecha	Determination of Radioactivity in Soil Samples around the 30 MeV Cyclotron Building
S10-P-81	Chahkrit Sriwunkum	Transforming Waste Glasses into Multifunctional Shielding Materials: A Simulation Study with Phantom Validation
S10-P-323	Siritorn Buranurak	Mathematical Modeling for Evaluation of Radiological Health Impact on Medical Staff Undergoing Fluoroscopically Guided Interventional Radiology