



MATHEMATICAL SOCIETY OF THE PHILIPPINES ANNUAL CONVENTION

May 15, 22, & 29, 2021



**Virtually hosted by
University of the Philippines
Los Baños**

2021 MSP Annual Convention
(1st Virtual Convention)
Hosted by University of the Philippines Los Baños
May 15, 22, 29, 2021



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PROGRAM AND ABSTRACTS

2021 Annual Convention of the
Mathematical Society of the Philippines

Virtual Convention
15, 22, 29 May 2021



MATHEMATICAL SOCIETY OF THE PHILIPPINES

www.mathsociety.ph



Message

For more than a year already since the community quarantine started, the Mathematical Society of the Philippines (MSP) has remained actively involved in its projects. A lot has been going on online for the MSP even if we have stopped holding face to face meetings. So far, we have been successful in our projects such as our country's participation in the 61st International Mathematical Olympiad (61st IMO, July 2020), the 23rd Philippine Mathematical Olympiad (23rd PMO, March 2021) and we are moving on towards the 62nd IMO in July 2021. This is our first virtual convention, and we planned this over a respectable number of meeting sessions over the last 6 months. I hope that we will also be successful in holding this.

This pandemic may have brought us a lot of challenges, but it has also stretched our capacities to adjust to the new situation. It has pushed us to be more creative and look for alternative ways of doing things. This applies to our work, our teaching, our research and even to our daily lives. For some of us, doing mathematics could have been a way to keep our minds busy and to keep ourselves from being anxious about the uncertainties. Some of our colleagues have also applied their mathematical expertise to provide our community and government agencies with information relevant to decision-making as we tackle this health crisis. Indeed, mathematics, whether we do it as job, as a field of study, or as a tool to understand phenomena or solve problems that confront our world, may be considered an indispensable or essential part of our lives. At least for many of us who are attending this conference.

This year, we have about a hundred contributed talks in the different areas of mathematics and five plenary talks. We are deviating a bit from the usual three-consecutive-day format since it may not be easy sitting all day for three successive days in front of the computer screen. From the logistical perspective, this is also the way to go since we are all busy with our online work and classes during the weekdays. I would like to thank the University of the Philippines Los Baños for graciously accommodating us to host this event virtually.

To all our participants, I would like to welcome you all to our first virtual convention. It is good to see you all again even if only virtually. This year, we may not have the opportunity to see interesting places, taste new dishes, or find new experiences but we get to see ourselves doing things differently and becoming good at it. And hopefully, we will be able to gather again next year, physically at our next convention.

Stay safe and healthy.

Emmanuel A. Cabral, PhD (sgd)
President
Mathematical Society of the Philippines



UNIVERSITY OF THE PHILIPPINES LOS BAÑOS

Office of the Chancellor



MESSAGE

On behalf of the University of the Philippines Los Baños (UPLB), I welcome all the participants to the *2021 Mathematical Society of the Philippines Convention*. I also commend the Mathematical Society of the Philippines for leading and organizing this timely and engaging event.

This year's convention aims to bring together researchers and educators in all areas of pure and applied mathematics, mathematics education, computing, and statistics to share their current research. The event also aims to serve as a platform for discussing some of the latest developments in mathematics and mathematics education.

As this occasion presents an excellent opportunity to set the groundwork for possible future collaborations, I encourage all participants to join as many discussions and plenary sessions as possible to make the most out of this occasion.


As the country's National University, the University of the Philippines, particularly UPLB, supports events and initiatives that contribute to the advancement of mathematics and related fields.

I wish everyone a fruitful and productive convention.

JOSE V. CAMACHO, JR.
Chancellor

Schedule of Activities

15 May 2021

8:00am - 08:30am	Registration / Video Viewing
8:30am - 9:00am	<p>Opening Ceremony</p> <p>National Anthem</p> <p>Invocation</p> <p>Welcome Remarks</p> <p>Dr. Emmanuel A. Cabral <i>President, MSP</i></p> <p>Dr. Jose V. Camacho, Jr. <i>Chancellor, UP Los Baños</i></p>
9:00am - 10:00am <9:00pm -10:00pm, Friday, USA>	<p>Plenary Talk 1</p> <p>Successfully Mentoring Students at All Levels in Mathematics Research</p>  <p>Dr. Michael Dorff <i>Professor, Brigham Young University</i> <i>Founder and Director, NSF-Funded Center for Undergraduate Research in Mathematics</i></p> <p>Moderator: Fidel R. Nemenzo</p>
10:00am-10:30am	Coffee Break

10:30am - 12:00nn		Parallel Sessions	
AM Session	Analysis 1	Graph Theory 1	Applied Mathematics 1
Moderators	<i>Rhudaina Z. Mohammad</i>	<i>Ma. Carmen V. Amarra</i>	<i>Maica Krizna A. Gavina</i>
Assistant Moderators	<i>Mark Philip F. Ona</i>	<i>Yvette F. Lim</i>	<i>Mark Lexter D. De Lara</i>
10:30-10:45	Subshift Associated with Beta Cantor Series Expansion <i>Shiela Demegillo</i>	Resolving Restrained Domination in Graphs <i>Gerald B. Monsanto</i>	Modelling Stigmatization and Optimal Control <i>Remilou F. Liguarda</i>
10:45-11:00	Heuristic Discrepancy Principle for Landweber Iteration in Banach Spaces <i>Rommel Real</i>	Global Hop Domination Numbers of Graphs <i>Gemma P. Salasalan</i>	Data Graduation using Sobolev Polynomials <i>CJ Castillo</i>
11:00-11:15	An Alternative Definition of the Ito Integral for the Hilbert-Schmidt-Valued Stochastic Process <i>Mhelmar A. Labendia</i>	A Condition for 3-Minimal Graphs with a Triangle for Non-stable Subsets <i>Wielson M. Factolerin</i>	Wave Attenuation of Mangroves in Manila Bay <i>Renier Mendoza</i>
11:15-11:30	A Comparison of the Dynamical Behavior of IS-LM Models with Different Tax Collection Lag Schemes <i>Juancho A. Collera</i>	On the Functoriality of Directed Clique Homology over Digraphs <i>Paul Samuel P. Ignacio</i>	Parameter Identification in Neutral Delay Differential Equations using Genetic Algorithm with Multi-Parent Crossover <i>Cristeta U. Jamilla</i>
11:30-11:45	An Uncertainty for Inversion via Metric Projections onto Level Sets <i>Ariel L. Babierra</i>	The Connected Partition Dimension of Truncated Wheels <i>Lyndon L. Lazaro</i>	A Study on Optimal Strategies to Control Schistosomiasis in Agusan del Sur, Philippines <i>Jayrah Bena E. Riñon</i>
11:45-12:00	Stability Switches and Hopf Bifurcation of a Delayed Coupled Neuron System <i>Ronnel John A. Garcia</i>	Sigma Chromatic Number of the Middle Graph of Some Families of Graphs <i>Jay-R A. Manamtam</i>	Implementing an N -Dimensional Golden Section Search as a Modified Local Search for an Accelerated Gradient Descent <i>Rey Audie S. Escosio</i>
12:00nn – 1:30pm		Lunch Break	

1:30pm – 2:30pm

Plenary Talk 2**Future Thinking with the Mathematical Community****Dr. Jomar Rabajante***Professor, University of the Philippines Los Baños**Junior Associate, Quantitative Life Sciences Group, Abdus Salam**International Centre for Theoretical Physics (ICTP), Trieste, Italy***Moderator:** *Aurelio A. de los Reyes V*

2:30pm - 3:00pm

Coffee Break/Photo Op


3:00pm - 5:00pm


Parallel Sessions

PM Session	Algebra 1	Mathematical Physics	Applied Mathematics 2
Moderators	<i>Manuel Joseph C. Loquias</i>	<i>Gilbert R. Peralta</i>	<i>Renier G. Mendoza</i>
Assistant Moderators	<i>Ma. Nerissa M. Abara</i>	<i>Jhunus Paul T. Viernes</i>	<i>Angelyn R. Lao</i>
3:00-3:15	Incidence Spaces Induced by Small Groups <i>John Mel T. Dacaymat</i>	Breakdown of Spacetime Continuum Alters the Temperature and Masses of Main-Sequence Stars <i>Adrian G. Abac</i>	Finding Chaos <i>Luis F. Razon</i>
3:15-3:30	Morphism and Cofinal Subsystem of Inverse Systems of BE-algebras <i>Jimboy R. Albaracin</i>	Quantum Coadjoint Orbit of the Similitude Group <i>Alexander J. Balsomo</i>	Reaction Networks: Independent Decompositions and Applications <i>Bryan S. Hernandez</i>
3:30-3:45	On a Variant of the Jordan-Schwinger Map for Finite-Dimensional Lie Algebras <i>Lynnel D. Naingue</i>	Long-Term Dynamics of Stuart-Landau and Kuramoto Models with Nonlocal Coupling <i>Junius Wilhelm G. Bueno</i>	Reaction Network Decompositions and Complex Balanced Equilibria <i>Honeylou F. Farinas</i>

PM Session	Algebra 1	Mathematical Physics	Applied Mathematics 2
Moderators	<i>Manuel Joseph C. Loquias</i>	<i>Gilbert R. Peralta</i>	<i>Renier G. Mendoza</i>
Assistant Moderators	<i>Ma. Nerissa M. Abara</i>	<i>Jhunas Paul T. Viernes</i>	<i>Angelyn R. Lao</i>
3:45-4:00	On the Positive Integer Solutions of the Diophantine Equation $M_p^x - (M_q + 1)^y = z^2$ where M_p and M_q are Mersenne Primes <i>William S. Gayo, Jr.</i>	Coherent Frames Based on Homogeneous Lie Groups <i>Luis S. Silvestre Jr.</i>	Common Complexes of Decompositions and Complex Balanced Equilibria <i>Lauro L. Fontanil</i>
4:00-4:15	Break		
4:15-4:30	On the Diophantine Equations $p^{qx} \pm (p^q + 1)^y = z^2$ and $(p^q + 1)^x - p^{qy} = z^2$ <i>Anna Clarice M. Yanday</i>	Coherent State Quantization of Time of Arrival Functions <i>Daisy A. Romeo</i>	Concentration Robustness in Power Law Kinetic Systems <i>Noel T. Fortun</i>
4:30-4:45	Coverability of Substitution Subshifts <i>Jane D. Palacio</i>	Wigner-Weyl Formalism on the Euclidean Motion Group of Rank Three <i>Laarni B. Natividad</i>	A Computational Approach to Multistationarity in Poly-PL Kinetic Systems <i>Daryl M. Magpantay</i>
4:45-5:00		Weyl-Wigner Formalism on Finite Quantum Systems <i>Francis D. Delloro</i>	PL-NDK Systems - a Forgotten Frontier? <i>Eduardo R. Mendoza</i>

22 May 2021

8:30am - 9:00am	Registration / Video Viewing		
9:00am - 10:00am <9:00pm -10:00pm, Friday, USA>	<p>Plenary Talk 3</p> <p>The Reformulation and Numerical Solution of Certain Nonclassical Initial/Boundary Value Problems</p>  <p>Dr. Graeme Fairweather <i>Professor Emeritus</i>, Department of Mathematical and Computer Sciences Colorado School of Mines <i>Executive Editor Emeritus</i>, AMS Mathematical Reviews</p> <p>Moderator: <i>Carlene P. Arceo</i></p>		
10:00am-10:30am	Coffee Break		
10:30am - 12:00nn	Parallel Sessions		
AM Session	Analysis 2	Education and Society	Applied Mathematics 3
Moderators	<i>Randy L. Caga-anan</i>	<i>Levi E. Elipane</i>	<i>Louie John D. Vallejo</i>
Assistant Moderators	<i>Richard B. Eden</i>	<i>Adjani S. Aguilar</i>	<i>Dylan Antonio S.J. Talabis</i>
10:30-10:45	θ_s -Continuity of Maps in the Product Space and Some Versions of Separation Axioms <i>Javier A. Hassan</i>	Mathematical Modeling Activities in Philippine Tertiary Classrooms: A Praxeological Approach <i>Joseph Simon V. Madriñan</i>	Forecasting Philippine Financial Time Series Data using Weighted Support Vector Regression Based on Quantum Finance Model <i>Hanna Rhae Lyssa D. Improso</i>

AM Session	Analysis 2	Education and Society	Applied Mathematics 3
Moderators	<i>Randy L. Caga-anan</i>	<i>Levi E. Elipane</i>	<i>Louie John D. Vallejo</i>
Assistant Moderators	<i>Richard B. Eden</i>	<i>Adjani S. Aguilar</i>	<i>Dylan Antonio S.J. Talabis</i>
10:45-11:00	System of Appell Polynomials Associated with the Fractional Poisson Measure <i>Jerome Bendong</i>	Unraveling Ethnomathematics in Panaeaba (Oyster Farming) <i>Jonathan O. Borbon</i>	Optical Character Recognition System for Baybayin Scripts using Support Vector Machine <i>Rodney B. Pino</i>
11:00-11:15	A Generalized LUMAWIG Algorithm for Computing Bottleneck Distances <i>Jay-Anne B. Bulauan</i>	A Multilayer Perceptron Neural Network Approach to Classifying Learning Modalities under the New Normal <i>Gernel S. Lumacad</i>	Parameter Identifiability of an Inuenza A Virus Model with Innate Immune Response <i>Ronica M. de Leon</i>
11:15-11:30	An Apostol-Type of Multi Poly-Genocchi Polynomials with Parameters a , b , and c <i>AZ D. Ababa</i>	Generating Small Area Estimates of Poverty Incidence in Region IV-A (CALABARZON) <i>Nelda A. Nacion</i>	Profit Dependence on Interaction Rates and Population Size of 2×2 Symmetric Games <i>Mark Anthony Garcia</i>
11:30-11:45	An Apostol-Type of Poly-Genocchi Polynomials with Parameters a , b , and c <i>Mark P. Laurente</i>	Spatiotemporal Dynamics of Canine Rabies and the Rabies Control Program in Davao City, Southern Philippines, 2005-2017 <i>Kenneth P. Montajes</i>	On the Minimum Capital Requirement of a Philippine Bank using Advanced Measurement Approach <i>Gertrude Thea Marie S. Reyes</i>
11:45-12:00	The Topology of θ_e -Open Sets <i>Aldison Asdain</i>		Absolutely Complex Balanced Kinetic Systems <i>Dylan Antonio S. J. Talabis</i>
12:00nn – 1:30pm Lunch Break			
<p style="text-align: center;">Plenary Talk 4</p> <p>1:30pm – 2:30pm Holographic Image Sensing</p> <div style="text-align: center;">  <p>Dr. Martianus Frederic Ezerman <i>Senior Research Fellow, Division of Mathematical Sciences, SPMS Nanyang Technological University, Singapore</i></p> <p>Moderator: Romar B. dela Cruz</p> </div>			

2:30pm - 3:00pm		Coffee Break/Photo Op	
3:00pm - 5:00pm		Parallel Sessions	
PM Session	Algebra 2	Graph Theory 2	Statistics
Moderators	Herbert S. Palines	Isagani B. Jos	Daryl Allen B. Saddi
Assistant Moderators	John Mark T. Lamos	John Rafael M. Antalan	Lester Charles A. Umali
3:00-3:15	Approximating a Set of Perplectic Matrices by Products with Finitely Many Factors Aaron Pagaygay	On Generalized Coprime Graph of a Group Dhenmar E. Chua	A First Order Stein Identity for Absolutely Continuous Bivariate Distributions Lester Charles A. Umali
3:15-3:30	2×2 Symplectic Matrices and J -Householders over \mathbb{Z}_p Romsto R. Pajarillo	Quotient-Complete Arc-Transitive Latin Square Graphs Associated with the General Semilinear Group of Degree One Homer Franz C. De Vera	Bayesian Imputation for Missing Data Azman A. Nads
3:30-3:45	On the Perunitary Diagonalizability of PerHermitian Matrices Mark Lexter T. De Lara	On Dihedral Flows of Generalized Petersen Graphs Cellularly Embedded in Closed Orientable Surfaces Francis E. Yap	An Extended Version of the Exponentiated Weibull Distribution with Application to Positively Skewed Distributed Data Idzhar A. Lakibul
3:45-4:00	Graphical Stirling Numbers and Normal Ordering Ken Joffaniel M. Gonzales	Novel Homology-Based Centrality Measures for Weighted Graphs John Rick Manzanares	Estimating Treatment Effect using Complier-Average Causal Effect (CACE) Analysis for Multivariate Data Joseph P. Abordo
4:00-4:15	Coffee Break		
4:15-4:30	Similarity Isometries of Shifted Lattices Jeanine Concepcion H. Arias	The Vertex Choice Number of a Graph Ryan Paolo Chua	The Burr Type IV Distribution under Left Censored Data Claire Joy G. Mariquit
4:30-4:45	The Product of an Involution and a Skew-Involution Jenny R. Salinasan	Coprime Graphs Defined on the Dicyclic Group Jose Maria P. Balmaceda	Modelling Rainfall Data Using STARIMA and CNN-LSTM Models Charly Q. Bongabong
4:45-5:00	Dynamical Systems Arising from Two-Dimensional Random Substitutions Bryan Ceasar L. Felipe	The Commuting Graph of the Dicyclic Group Yuria M. Hojo	Time Series Analysis of Monthly Precipitation Data in Davao City Ronald A. Gica

29 May 2021

8:30am - 9:00am	Registration / Video Viewing																						
9:00am - 10:00am <9:00pm -10:00pm, Friday, Puerto Rico>	<div>Plenary Talk 5</div> <div>Fine Regularity for the Robin Problem over Irregular Regions</div> <div></div> <div>Dr. Alejandro Velez-Santiago</div> <div>Associate Professor, Departamento de Matemáticas, University of Puerto Rico at Mayagüez</div> <div>Moderator: Jose Ernie C. Lope</div>																						
10:00am-10:30am	Coffee Break																						
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<table><tr><td>AM Session</td><td></td><td>Differential Equations</td><td>Applied Mathematics 4</td></tr><tr><td>Moderators</td><td></td><td>Juancho A. Collera</td><td>Emmanuel Lance Christopher M. Plan VI</td></tr><tr><td>Assistant Moderators</td><td></td><td>Romsto R. Pajarillo</td><td>Ederlina G. Nocon</td></tr><tr><td>10:30-10:45</td><td></td><td>Homogenization of a Quasilinear Elliptic Problem in Domains with Small Holes Jake M. Avila</td><td>Single City Optimal Strategy for COVID-19 Pandemic Dave Emmanuel Q. Magno</td></tr><tr><td>10:45-11:00</td><td></td><td>Self-adjoint Laplacians on a Compact Riemann Surface with Conical Singularities and their Determinants Kelvin A. Lagota</td><td>Stochastic SEIR Model: Formulation, Analysis, and Application to COVID-19 Data Set Angelo E. Marasigan</td></tr></table>				AM Session		Differential Equations	Applied Mathematics 4	Moderators		Juancho A. Collera	Emmanuel Lance Christopher M. Plan VI	Assistant Moderators		Romsto R. Pajarillo	Ederlina G. Nocon	10:30-10:45		Homogenization of a Quasilinear Elliptic Problem in Domains with Small Holes Jake M. Avila	Single City Optimal Strategy for COVID-19 Pandemic Dave Emmanuel Q. Magno	10:45-11:00		Self-adjoint Laplacians on a Compact Riemann Surface with Conical Singularities and their Determinants Kelvin A. Lagota	Stochastic SEIR Model: Formulation, Analysis, and Application to COVID-19 Data Set Angelo E. Marasigan
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AM Session		Differential Equations	Applied Mathematics 4	
Moderators		Juancho A. Collera	Emmanuel Lance Christopher M. Plan VI	
Assistant Moderators		Romsto R. Pajarillo	Ederlina G. Nocon	
11:00-11:15		Hyperbolic Mean Curvature Flow at a Triple Junction Rhudaina Z. Mohammad	Local Dynamics of an SEIHR Epidemic Model with Application to Ebola Disease Joseph S. Tullao	
11:15-11:30		A Model for Incompressible Viscous Two-Phase Flows with Convective Heat Transfer Gilbert Peralta	Linkages of Community Quarantines, Nonpharmaceutical Interventions (NPI), Weather Components, and COVID-19 Cases in Davao City, Philippines Zython Paul T. Lachica	
11:30-11:45		Hausdorff and H_1 Convergence of Approximate Solutions of a Shape Design Problem John Sebastian H. Simon	Optimal Vaccination Control for COVID-19 in a Metapopulation Model with Mobility Jead M. Macalisang	
11:45-12:00		Generalized Mittag-Leffler Kernels and Generalized Scaling Operators in Mittag-Leffler Analysis Angelyn P. Gumanoy	Modeling Super-spreading Events for Infectious Diseases with Quarantine Thomas Herald M. Vergara	
12:00nn – 1:30pm Lunch Break				
1:30pm - 2:45pm Parallel Sessions				
PM Session		Analysis 3	Discrete Mathematics	Applied Mathematics 5
Moderators		Eduardo O. Jatulan	Ken Joffaniel M. Gonzales	Gino Angelo M. Veslasco
Assistant Moderators		Shiela S. Demegillo	Mark C. Tolentino	Bryan S. Hernandez
1:30-1:45		A q -Analogue of Generalized Translated Whitney Numbers: Cigler's Approach Jezer C. Fernandez	On the Structure of \mathbb{Z}_n via PascGalois JE Irmalyn B. Paymalan	Effect of Pedestrian Leaders on the Evacuation Efficiency of a Crowd Jhunasa Paul Viernes
1:45-2:00		The Order Convergence Theorem and Its Consequences Joseph T. Belida	Tournament Score Sequences: Enumeration and Realization Severino V. Gervacio	On The Dynamics of Crop Model with Biological Pest Control Nurhaya C. Kabirun

PM Session	Analysis 3	Discrete Mathematics	Applied Mathematics 5
Moderators	<i>Eduardo O. Jatulan</i>	<i>Ken Joffaniel M. Gonzales</i>	<i>Gino Angelo M. Veslasco</i>
Assistant Moderators	<i>Shiela S. Demegillo</i>	<i>Mark C. Tolentino</i>	<i>Bryan S. Hernandez</i>
2:00-2:15	A (p, q) -analogue of Qi-Type Formula for r -Dowling Numbers <i>Amerah M. Dibagulun</i>	On the Computation of Some Distance-Based Topological Indices of Circulant Network $C_n(1, \alpha)$ <i>John Rafael M. Antalan</i>	A Lattice Lotka-Volterra Simulation Study of the Understory Plant Communities <i>Gimelle B. Gamilla</i>
2:15-2:30	Translated Logarithmic Lambert Function and its Applications to Three-Parameter Entropy <i>Roberto B. Corcino</i>	Inequivalent Polyomino and Polyiamond Prototiles for Isohedral Tilings with Four-Fold, Three-Fold, and Six-Fold Rotational Symmetries <i>Aimah M. Domado</i>	A Pressure Model for the Interaction of Actin Filaments in Biological Cell Cytoskeleton <i>Gervy Marie Angeles</i>
2:30-2:45	Asymptotic Approximations of Apostol-Genocchi Numbers and Polynomials <i>Cristina B. Corcino</i>		Activity Pulses Induce Spontaneous OW Reversals in Viscoelastic Environments <i>Emmanuel L. C. VI M. Plan</i>
2:45pm – 3:00pm Coffee Break/ Photo Op			
3:00pm - 3:30pm Awarding and Presentation of the 2021 Outstanding PhD Graduate Awardee			
3:30pm - 5:30pm MSP Business Meeting Closing Remarks			

Masters of Ceremonies: Jude C. Buot and Len Patrick Dominic M. Garces

Mathematical Symposium in Memory of Prof. Noli Reyes
(A Satellite Symposium of the Mathematical Society of the Philippines)

Date: June 5, 2021

Programme

9:00 am	<p>Opening</p> <p>Welcome Remarks</p> <p>Dr. Jose Ernie C. Lope <i>Director, Institute of Mathematics</i></p> <p>Dr. Fidel R. Nemenzo <i>Chancellor, University of the Philippines Diliman</i></p> <p>Dr. Emmanuel A. Cabral <i>President, Mathematical Society of the Philippines</i></p>
9:30 am	<p>Plenary Talk</p> <p>Reconstruction of Functions from Prescribed Proximal Points <i>Prof. Patrick L. Combettes</i></p>
10:30 am	<p>Break</p>
10:35 am	<p>Invited Talks</p> <p>A Trail of Uncertainties from Nonlinear Mappings to Metric Projections <i>Dr. Ariel L. Babiera</i></p> <p>Growth of Approximate Solutions of Inconsistent Systems <i>Dr. Louie John D. Vallejo</i></p>
11:40 am	<p>Lunch Break</p>

1:00 pm	<p style="text-align: center;">Invited Talks</p> <p style="text-align: center;">Volume-preserving Gradient Flows of Surface Energies Dr. Rhudaina Z. Mohammad</p> <p style="text-align: center;">Fourier Transform from Various Perspectives Dr. Jayson Cunanan</p>
2:00 pm	Break
2:05 pm	<p style="text-align: center;">Invited Talks</p> <p style="text-align: center;">Spaces of Functions of Variable Bandwidth Parametrized by Piecewise Constant Functions Mr. Mark Jason Celiz</p> <p style="text-align: center;">Optimization in the Construction of Multidimensional Wavelets Mr. Neil Kristofer Dizon</p>
3:05 pm	Break
3:10 pm	<p style="text-align: center;">Invited Talks</p> <p style="text-align: center;">On the Atangana-Baleanu Derivative Dr. Johnatan Pimentel</p> <p style="text-align: center;">Phase Retrieval for Wide Band Signals Mr. Rolando Perez III</p>
4:10 pm	Break
4:15 pm	<p style="text-align: center;">Invited Talk</p> <p style="text-align: center;">On Phase-Space Localization and Mixed-State Localization Operators Dr. Gino Angelo M. Velasco</p>
4:45 pm	Closing Remarks