

2023 臺日菲三邊論壇-數學 Research and Education Forum of Japan, Philippines and Taiwan – Mathematics Session

Department of Mathematics, National Taiwan Normal University
27 Sept. 2023 @ M106 & M212, Mathematics Building

10:00~12:00	Symposium @ M106	
12:00~13:15	Lunch @ M106	
Time	Speaker	Title
13:15~13:30	Chair Chih-Nung Hsu	Opening
13:30~14:00	Takehiko Yasuda	Our Department and Research
14:00~14:30	Jose Ernie Lope	Research thrusts of the UP Diliman Institute of Mathematics
14:30~15:00	Ederlina G. Nocon	Research Works and Interests of DLSU Mathematics and Statistics Faculty
15:00~15:15	Tea Break	
15:15~15:45	Angelyn R. Lao	Graph Theoretical Analysis of Biological and Ecological Systems
15:45~16:15	Marian Roque	PDE Research at the Institute of Mathematics UPD
16:15~16:20	Break	
16:20~16:50	Carlene Perpetua Arceo	Collaborative Research: Key to Relevant Problem-Solving
16:50~17:20	Eden Delight P. Miro	The education and research agenda of the Ateneo Department of Mathematics
17:30 Travel to NTNU main campus		
18:00 Banquet		

Our Department and Research

Takehiko Yasuda

Department of Mathematics

Osaka University

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Abstract: In this talk, I will introduce the Department of Mathematics at Osaka University. Topics which I plan to talk about include, for example, the numbers of students and faculty members, the history of the department, and the journal published by the department. If time permits, I would like to briefly introduce also my own research in algebraic geometry.

Research thrusts of the UP Diliman Institute of Mathematics

Jose Ernie Lope

Institute of Mathematics

University of the Philippines Diliman

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Abstract: In this talk, I will give an overview of the research interests and specializations of the faculty members of the UP Diliman Institute of Mathematics. This will be done by introducing the different research groups that we have at our Institute and listing down a few of their representative publications.

Research Works and Interests of DLSU Mathematics and Statistics Faculty

Ederlina G. Nocon

Department of Mathematics and Statistics

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Abstract: In this presentation, I will discuss the research works of our department's faculty. I will introduce our young faculty who are interested in applying for post-doctoral studies in Taiwan or Japan. It is my goal to connect our teachers with researchers from other participating universities in this workshop for possible collaboration.

Graph Theoretical Analysis of Biological and Ecological Systems

Angelyn R. Lao

Department of Mathematics and Statistics

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Abstract: Graph theoretical approaches to study and understand biological and ecological systems have been increasingly used. Networks are being established to abstract the interactions of the components in either a biological or ecological system. In this study, we present the different graph theoretical approaches that can be applied to analyze the systems and offer new perspectives on established biological and ecological theories as well as tools to address new challenges.

PDE Research at the Institute of Mathematics UPD

Marian Roque

College of Science/ Institute of Mathematics
University of the Philippines Diliman
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Abstract: In this talk, I shall discuss some of our researches on PDEs at the Institute of Mathematics UP Diliman. A number of our researches deal with homogenization of PDEs and the breadth and depth have expanded through the years.

Collaborative Research: Key to Relevant Problem-Solving

Carlene Pilar-Arceo

Institute of Mathematics

College of Science

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Abstract: Major research interests and recent output of the I-Math Modeling and Applications Academic Group will be shared in this presentation. Current collaborations will also be mentioned.

**The Education and Research Agenda of the Ateneo
Department of Mathematics**

Eden Delight P. Miro

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Abstract: TBA