

Seminar Invitation: Bipolar fuzzy solution of the bipolar fuzzy heat equation

Muhammad Bilal from Department of Mathematics, University of the Punjab, Lahore

Speakers' Brief Introduction

Mr. Muhammad Bilal is an MPhil Scholar working under the supervision of Prof. Dr. Muhammad Akram. The field of research of a student is Pure Mathematics, specializing in Fuzzy Numerical Methods.



Abstract

In this talk, I will present the analytical solution of a bipolar fuzzy heat equation under generalized Hukuhara partial(gH-partial) differentiability based on the bipolar fuzzy Fourier transform. A bipolar fuzzy Fourier transform will be introduced and the related propositions and characteristics will be discussed. Further, a bipolar fuzzy heat equation model be constructed using gH-differentiability, and a solution of a bipolar fuzzy heat equation with a bipolar fuzzy Fourier transform approach will be examined. Some examples will be solved to demonstrate the effectiveness and efficiency of the suggested methodology. In the end, the type of differentiability and the solution of the bipolar fuzzy heat equation will be shown graphically.

Departmental Seminar Series

The Seminar Series serves as a platform to showcase and celebrate the remarkable work carried out by our researchers, scholars, and experts. It provides an avenue for knowledge dissemination and collaboration, creating an environment that nurtures innovative ideas and drives groundbreaking research. We proudly acknowledge and celebrate the remarkable contribution of Prof. Dr. Muhammad Sharif in introducing this seminar series back in 2005. The Seminar Series encompasses a wide range of topics, spanning various disciplines, ensuring that it caters to the diverse interests and expertise of our institute's community. Through these seminars, we aim to cultivate an environment of intellectual curiosity, stimulating meaningful discussions, and fostering interdisciplinary collaborations.



Please join us for this Presentation

When: Friday 7th July 2023; 02:15PM- 02:30PM

Where: Computer Lab, Department of Mathematics, University of the Punjab, Lahore

Note: All faculty members and research scholars (MPhil/PhD) are invited to attend this seminar.

Chairman Message



It is my honor to witness the passion and dedication that our faculty and students bring to the study of this beautiful discipline. I encourage our faculty members to create a supportive environment that nurtures and promotes mathematical research. I urge each and every one of you, regardless of your level of experience, to actively participate in mathematical research and contribute to the growth of our research community. It is our collective responsibility to create an ecosystem that encourages and facilitates research pursuits.

Coordinator Departmental Seminar Series

Dr. Zeeshan Yousaf

Associate Professor

Department of Mathematics, University of the Punjab, Lahore