

# Seminar Invitation: Solitons and other solutions of integrable Manakov system

Speaker: **Mavra Farrukh** from Department of Mathematics, University of the Punjab, Lahore

## Speakers' Brief Introduction

Ms. Mavra Farrukh is an MPhil Scholar working under the supervision of Prof. Dr. Ghazala Akram. The field of research of a student is Computational Mathematics, specializing in Nonlinear Partial Differential Equations.



## Astract

In nonlinear optical telecommunication networks and optical switching devices, the study of the collision of optical solitons is critical since the soliton pulses propagate as wave packets. In recent years, the collision of soliton pulses has been studied by means of coupled nonlinear Schrodinger equation. The purpose of this talk is to investigate the soliton structures of the Manakov system.

## 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.



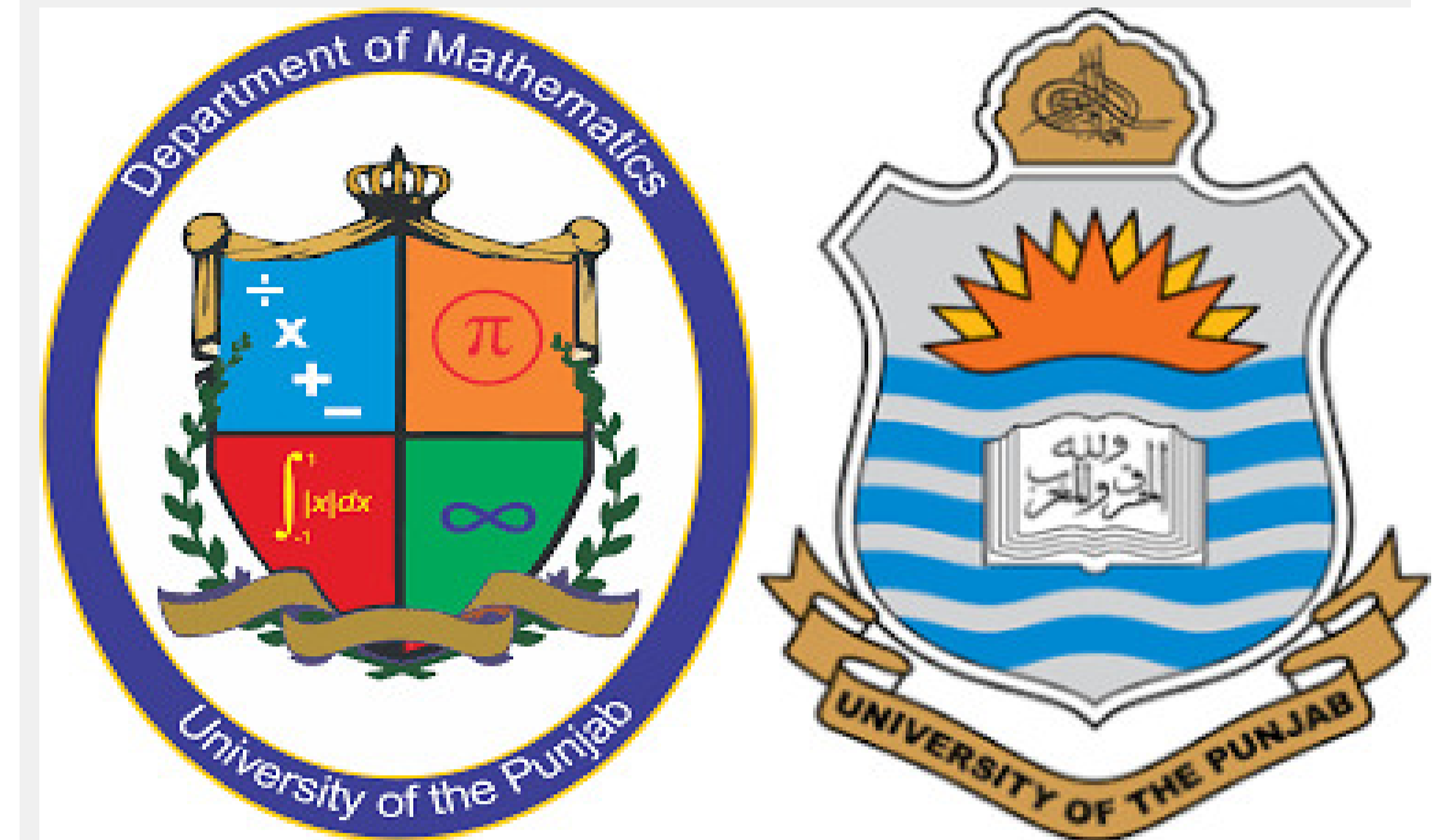
## Please join us for this Presentation

**When:** Wednesday 5th July 2023; 02:30PM- 02:45PM

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

Note: All the faculty members and research scholars (MPhil/PhD) are invited to the 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