



Seminar Invitation: Cracking and Stability of Polytropic Models

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Speakers' Brief Introduction

Ms. Sana Rashid is an MPhil Scholar working jointly under the supervision of Prof. Dr. Muhammad Aslam Malik and Associate Prof. Dr. Muhammad Zaeem Ul Haq Bhatti. The field of research of a student is Applied Mathematics, specializing in Partial Differential Equations.



Astract

Density and local anisotropy affect the stability of local anisotropic models in general relativity. We explore this aspect in the presence of an electromagnetic field. The concept of cracking is established using Einstein field equations. Propagation of radial and tangential sound speeds has been used to discern potentially stable and unstable regions. It is also found that potentially unstable regions occur when tangential sound speed is greater than radial sound speed.

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.

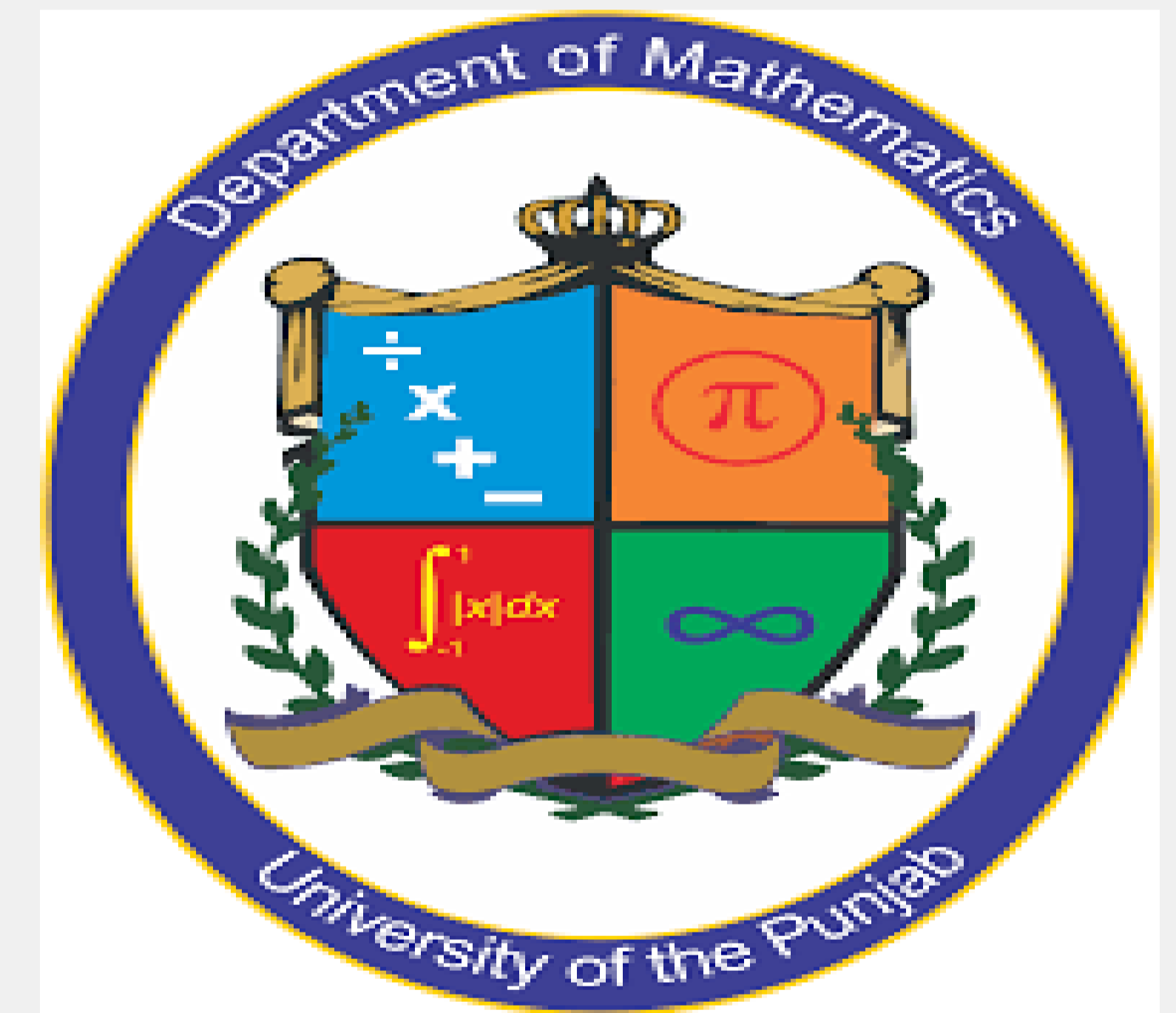


Please join us for this Presentation

When: Wednesday 21th June 2023; 02:40PM- 03:00PM

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

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