DEPARTMENT OF MATHEMATICS UNIVERSITY OF DELHI

Research Seminar by Bharat Talwar Research Assistant, Nazarbayev University, Kazakhstan

Title: Some research ideas in PDE's and operator theory Date and Time : Thursday, January 12, 2023, 2:30 p.m. Venue: Seminar Room

Abstract: We will learn about some ideas being explored actively by researchers working in the two fields: partial differential equations and operator theory. For a class of PDEs, research is being carried out actively for finding a critical constant famously known as the Fujita exponent. For operator theory, we will try to answer a recent conjecture by Fidaleo et al. [1] claiming that a unital completely positive map on a C^{*}algebra (e.g., \mathbb{M}_d) having spectrum inside the unit circle \mathbb{T} must be an automorphism. This talk is based on joint works with Durvudkhan Suragan; and B. V. Rajarama Bhat and Samir Kar.

References

 F. Fidaleo, F. Ottomano and S. Rossi, Spectral and ergodic properties of completely positive maps and decoherence, Linear Algebra Appl. 633 (2022), 104–126.

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