IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, October 2024

Exploring the Spectral Properties of Differential Operators on Domains and Graph Structures

Sonu Sharma¹ and Dr. Dipiti Vasdev² Research Scholar, Department of Mathematics¹ Research Guide, Department of Mathematics² Sunrise University, Alwar, Rajasthan, India

Abstract: A universal lower approximation for the spectral split is demonstrated, and it is shown that the graph can be generated by forming only intermediate time. The reduction's uniqueness enables the demonstration of a geometric variant of the Ambartsumian theorem, which was originally derived for Schrödinger operators. It is a disruption of a specified unregulated self-adjunct operator, as opposed to A and its corresponding disrupted self-adjunct operator, A1.

DOI: 10.48175/568

Keywords: Spectral, Differential, Operators, Domains, Graphs.

