

ON SHARP ESTIMATE FOR THE SOLUTION OF THE WAVE EQUATION ASSOCIATED WITH THE TWISTED LAPLACIAN

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Abstract:

The sharp fixed-time Lebesgue and Hardy space estimates for the solution of the Cauchy problem associated with the standard Euclidean Laplacian were first studied independently by A. Miyachi and J. Perel in 1980. After that, many mathematicians studied this problem for various classes of operators on different settings but the sharp estimate is still not available for many operators.

In this talk, we shall discuss fixed-time estimates for the solution of the Cauchy problem associated with the twisted Laplacian. This talk is based on a joint work with Jotsaroop Kaur.