

Fractional wave operators and the wave equation in anti-de Sitter spaces

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ABSTRACT

In this talk I will discuss the connection between the fractional powers of the standard wave operator with the problem of the massive wave equation on anti-de Sitter spaces with boundary data at infinity. This relation can be seen as the Lorentzian analog of well known results derived in the context of non-local elliptic equations and conformal geometry for the fractional Laplacian. The talk is based on a joint work with A. Enciso and M.d.M. González [1].

References

- [1] A. Enciso, M.d.M. González, B. Vergara. Fractional powers of the wave operator via Dirichlet-to-Neumann maps in anti-de Sitter spaces. Preprint arXiv:1607.04390.