

1052-35-222

Andras Vasy*, Department of Mathematics, Stanford University, 450 Serra Mall, Stanford, CA 94305-2125. *Wave propagation on asymptotically De Sitter and Anti-de Sitter spaces*. Preliminary report.

In this talk I describe the asymptotics of solutions of the wave equation on asymptotically De Sitter and Anti-de Sitter spaces. This is part of a larger program to analyze hyperbolic equations on non-product, non-compact manifolds, similarly to how various types of ‘ends’ have been studied for the Laplacian and other elliptic operators on Riemannian manifolds. Part of the talk is on current work in progress. (Received August 28, 2009)