

1116-35-2671 **Andras Vasy*** (andras@math.stanford.edu), Dept of Math, Stanford University, Bldg 380, 450 Serra Mall, Stanford, CA 94305-2125. *Analysis on asymptotically hyperbolic and de Sitter spaces.*

I will describe recent work on the spectral family of the Laplace, respectively wave, operators on asymptotically hyperbolic, respectively de Sitter spaces obtained by gluing these spaces at their conformal boundaries. The resulting operator is on a compact manifold without boundary, and it is very amenable to Fredholm analysis even though it changes type (elliptic vs. hyperbolic). (Received September 22, 2015)