

1068-35-314

Jason L Metcalfe* (metcalfe@email.unc.edu), Department of Mathematics, University of North Carolina, Chapel Hill, NC 27599-3250. *Decay for wave equations on high dimensional Schwarzschild black hole backgrounds.*

This is joint work with Parul Laul and focuses on proving dispersive-type estimates for wave equations on high dimensional black hole backgrounds. Of particular interest are a class of localized energy estimates. The (1+3)-dimensional analog of these have played a major role in recent results, including a proof of the long conjectured Price's law. (Received January 20, 2011)