

RESOLVENT ESTIMATES FOR SPACETIMES BOUNDED BY KILLING HORIZONS

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In this talk I will describe the decay of linear waves on a class of stationary spacetimes bounded by non-degenerate Killing horizons. Without any assumptions on the trapped set solutions of the wave equation exhibit logarithmic energy decay. This is analogous to well known results in other geometric settings. The proof follows from high-energy resolvent bounds via a global Carleman estimate.