ANTHONY MCCORMICK, Northwestern University

Ladder Asymptotics on Stationary Spacetimes

The space of solutions to the wave equation on a principal bundle over a stationary spacetime decomposes in terms of isotypic representations of the structure group. We present a trace formula for the unitary time evolution operator when restricted to a ladder of representations and analyze the corresponding limit of large quantum numbers, providing a common extension of some results of Guillemin-Uribe and Strohmaier-Zelditch.