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Wave equations in Kerr geometry

Niky KAMRAN
Department of Mathematics and Statistics
McGill University
Burnside Hall, 805 Sherbrooke W.
Montréal, Québec H3A 2K6
CANADA

`nkamran@math.mcgill.ca`

Abstract

I will give an overview of some key mathematical results concerning the long-time behavior of the solutions of the Dirac and scalar wave equations in the Kerr metric. In particular, I will discuss decay rates for the solutions of the Dirac equation, for L^2 initial data.

This is joint work with Felix Finster, Joel Smoller and Shing-Tung Yau.