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Mihai Tohaneanu* (mihai.tohaneanu@uky.edu), 107 Johnston Blvd, Lexington, KY 40503.

Quasilinear wave equations on Schwarzschild and Kerr.

We study the quasilinear wave equation $\square_g u = 0$, where the metric g depends on u and equals either the Schwarzschild metric or Kerr metric with small angular momentum when u is identically 0. Under a couple of assumptions on the metric g near the trapped set and the light cone, we prove global existence of solutions. This is joint work with Hans Lindblad. (Received February 12, 2018)