

SPEAKER:

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TITLE:

Global existence for quasilinear wave equations close to Schwarzschild

ABSTRACT:

We study the quasilinear wave equation $\square_g u = 0$, where the metric g depends on u and equals the Schwarzschild metric when u is identically 0. Under a couple of extra 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.