

1056-83-1296

Mihai H Tohaneanu* (mtohanea@math.purdue.edu), 427 S River Rd, Apt # 21, West Lafayette, CA 47906. *Strichartz estimates for Kerr backgrounds.*

We prove Strichartz estimates for solutions to the equation $\square_K u = f$, where K stands for the d'Alembertian associated to the metric of the Kerr spacetime. The proof uses the machinery developed in joint work with Jeremy Marzuola, Jason Metcalfe and Daniel Tataru that allows us to obtain Strichartz estimates provided that a suitable local energy estimate already exists. (Received September 21, 2009)