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**Jason Metcalfe\*** ([metcalfe@email.unc.edu](mailto:metcalfe@email.unc.edu)), Department of Mathematics, University of North Carolina - Chapel Hill, Chapel Hill, NC 27599-3250. *Local energy estimates for wave equations on asymptotically flat backgrounds.*

We will discuss recent results concerning local energy estimates on asymptotically flat backgrounds. This will include results on the nontrapping case. We will also discuss the case of degenerate trapping where a certain algebraic loss of derivatives is necessary and sufficient to recover such estimates. (Received September 23, 2018)