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Improved local energy decay for the wave equation on asymptotically Euclidean odd dimensional manifolds in the short range case

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(Submitted on 26 Jul 2011)

We show improved local energy decay for the wave equation on asymptotically Euclidean manifolds in odd dimensions in the short range case. The precise decay rate depends on the decay of the metric towards the Euclidean metric. We also give estimates of powers of the resolvent of the wave propagator between weighted spaces.

Comments: 14 pages

Subjects: Analysis of PDEs (math.AP); Mathematical Physics (math-

ph)

MSC classes: 35L05, 35P25, 47A10, 58J45, 81U30

Cite as: arXiv:1107.5251v1 [math.AP]

Submission history

From: Jean-Francois Bony [view email] [v1] Tue, 26 Jul 2011 16:05:04 GMT (14kb)

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