

ON THE GLOBAL EXISTENCE OF CLASSICAL SOLUTIONS
OF SECOND ORDER FULLY NONLINEAR HYPERBOLIC
EQUATIONS WITH FIRST ORDER DISSIPATION
IN THE EXTERIOR DOMAIN

By

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Abstract

In this paper, we establish global existence and uniqueness theorems of solutions of second order fully nonlinear hyperbolic equations with first order dissipation in the exterior domain, in the case that data are sufficiently small and smooth and that the space dimension $n \geq 3$. Furthermore, we investigate some decay theorem.

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§ 5. Behavior of $R(\tau)$ near $\tau=0$.

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