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## EXISTENCE OF A GLOBAL WEAK SOLUTION OF THE CAUCHY PROBLEM FOR SYSTEMS OF SEMILINEAR HYPERBOLIC EQUATIONS

## Abstract

We consider the Cauchy problem for systems of second and fourth order semilinear hyperbolic equations.

In the paper we established the criterion analogous to Fujit's criterion for global solvability: the conditions on nonlinearity increase ensuring the existence of global solution are obtained. The mentioned example shows that the conditions on nonlinearity increase are exact.