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THE INVERSE SCATTERING PROBLEM FOR A  
HYPERBOLIC SYSTEM OF FIRST ORDER  $n$   
EQUATIONS ON A SEMI-AXIS WITH  $n - 1$  EQUAL  
VELOCITIES

Abstract

*In the paper the inverse scattering problem is studied for a hyperbolic system of first order  $n$  equations on a semi - axis with  $n - 1$  equal velocities. A theorem on uniqueness of the inverse problem is proved and algorithm of renewal of coefficients is given with respect to the scattering operator.*