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**Inverse scattering in a layered medium.** (English. Abridged French version) Zbl 0941.35134  
C. R. Acad. Sci., Paris, Sér. I, Math. 329, No. 10, 927-932 (1999).

Summary: We present a uniqueness theorem in inverse scattering at a fixed energy for the wave equation in a layered medium. We accommodate the Faddeev theory of inverse scattering using the calculus of commutators.

**MSC:**

[35R50](#) PDEs of infinite order  
[35L05](#) Wave equation  
[47A40](#) Scattering theory of linear operators  
[81U40](#) Inverse scattering problems in quantum theory  
[35P25](#) Scattering theory for PDEs

Cited in **1** Document

**Keywords:**

uniqueness; inverse scattering; wave equation in a layered medium; Faddeev theory of inverse scattering; commutators

**Full Text:** [DOI](#)