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Inverse problems in the multidimensional hyperbolic equation with rapidly oscillating absolute term. (English) [Zbl 1478.35030](#)

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Summary: The paper is devoted to the development of the theory of inverse problems for evolution equations with terms rapidly oscillating in time. A new approach to setting such problems is developed for the case in which additional constraints are imposed only on several first terms of the asymptotics of the solution rather than on the whole solution. This approach is realized in the case of a multidimensional hyperbolic equation with unknown absolute term.

For the entire collection see [\[Zbl 1470.47003\]](#).

MSC:

- 35B40 Asymptotic behavior of solutions to PDEs
- 35R30 Inverse problems for PDEs
- 35L20 Initial-boundary value problems for second-order hyperbolic equations
- 34C29 Averaging method for ordinary differential equations

Keywords:

[multidimensional hyperbolic equation](#); [rapidly oscillating absolute term](#); [asymptotics of solution](#)

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

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