

Approximate Lipschitz stability for phaseless inverse scattering with background information

СИВКИН ВЛАДИМИР
Ecole Polytechnique (Paris), Франция
e-mail: sivkin96@ya.ru

We prove approximate Lipschitz stability for monochromatic phaseless inverse scattering with background information in dimension $d \geq 2$. Moreover, these stability estimates are given in terms of non-overdetermined and incomplete data. Related results for reconstruction from phaseless Fourier transforms are also given. Our talk is based on the work [S], the prototypes of these results for the phased case were given in [N].

[N] Novikov, 2013 Approximate Lipschitz stability for non-overdetermined inverse scattering at fixed energy, *J. Inverse Ill-Posed Problems*, 21, 813-823.

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Sivkin, 2023 Approximate Lipschitz stability for phaseless inverse scattering with background information, *Journal of Inverse and Ill-posed Problems*, 31(3), 441-454.