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An augmented time reversal method for source and scatterer identification

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Highlights

- The Time Reversal (TR) method for scatterer identification is considered.
- An improved TR method is proposed for cases of scarce or very noisy data.
- The improvement is achieved by solving an elliptic problem at chosen times.
- The associated added computational cost is marginal.
- In some cases, the method succeeds in the identification whereas standard TR fails.

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