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On the determination of response functions obtained from their Lorentz integral transforms

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The accuracy of reconstructing a response function from its Lorentz integral transform is studied for an exactly solvable case. The model considered here is the dipole photodisintegration of the bound state of three particles interacting via a hypercentral potential. The inversion procedure is discussed in detail and its optimal version is presented. Unlike results in the literature pertaining to the same model, the response function is reconstructed from its Lorentz integral transform with rather high accuracy.

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