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Solution of coupled integral equations for quantum scattering in the presence of complex potentials. (English) [Zbl 1305.81130](#)
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Summary: In this paper, we present a method to compute solutions of coupled integral equations for quantum scattering problems in the presence of a complex potential. We show how the elastic and absorption cross sections can be obtained from the numerical solution of these equations in the asymptotic region at large radial distances.

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MSC:

- 81U05 2-body potential quantum scattering theory
- 45F05 Systems of nonsingular linear integral equations
- 81T80 Simulation and numerical modelling (quantum field theory) (MSC2010)

Full Text: [DOI](#)

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