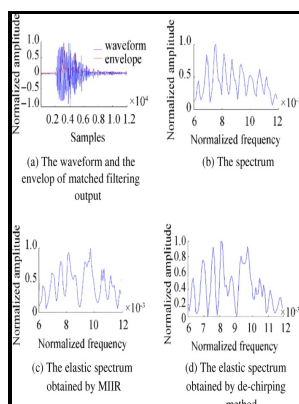


Amplitude extraction for elastic scattering.

University of Birmingham - Study of $6,8\text{He}+p$ elastic scattering at 25



Description: -

-Amplitude extraction for elastic scattering

-Amplitude extraction for elastic scattering

Notes: Thesis (M.Sc.)- Univ. of Birmingham, Dept. of Mathematical Statistics.

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Tags: #Extraction #and #classification #of #acoustic #scattering #from #underwater #target #based #on #Wigner

Study of $6,8\text{He}+p$ elastic scattering at 25

For comparison, the corresponding σ_R obtained indicated in past have also been displayed in the same table. However, it is important to note that the reported σ_R for these nuclei are not enough and therefore, it is difficult to comment on its range of accuracy.

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Study of $6,8\text{He}+p$ elastic scattering at 25

The rms radii of the matter and neutron densities, and the multipole moments M_p , n and B_{E2} values are extracted and are compared with the earlier theories and to the experiment.

Small t elastic scattering and the ρ parameter

To apply this model to some lower energies such as below 100 MeV and to cover a wide range of center of mass scattering angles, its helpfulness should be handled cautiously. The tail halo part is defined by the equation , where the tail parameter a_t is calculated with the neutron separation energies 1 . The evaluated core radius $R_c \sim 1$.

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The relative number of particles scattering at different angles to the primary direction. For large r the partial waves will resemble the common eigenfunctions of H_0 , L^2 , and L_z , where H_0 is the Hamiltonian of a free particle.

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