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Simultaneous Calculation of Elastic Scattering, Transfer, Breakup, and Other Direct Cross Sections for $d+^{197}\text{Au}$ Reaction

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Simultaneous analyses are performed for cross section data of elastic scattering, Coulomb breakup, transfer and other direct yields for the $d+^{197}\text{Au}$ system at all available energies. The data are reproduced well by the optical model using bare and dynamical polarization potentials. This method of calculation can be successfully applied to the reactions of deuteron with with heavy targets.

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