

ELASTIC, EXCITATION, IONIZATION AND CHARGE TRANSFER CROSS SECTIONS OF CURRENT INTEREST IN FUSION ENERGY RESEARCH¹

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Due to the present interest in modeling and diagnosing the edge and divertor plasma regions in magnetically confined fusion devices, we have sought to provide new calculations regarding the elastic, excitation, ionization, and charge transfer cross sections in collisions among relevant ions, neutrals, and isotopes in the low- to intermediate-energy regime. We summarize here some of our recent work.

1. Abstract of published paper: *Present Status on Atomic and Molecular Data Relevant to Fusion Plasma Diagnostics and Modeling*, National Institute for Fusion Science NIFS-DATA-39 (1997), p. 50.