

ELASTIC PROCESSES IN SLOW COLLISIONS OF Be AND Be IONS WITH HYDROGEN¹

P. S. Krstić, D. R. Schultz, and G. Bent²

Because of their present relevance to divertor modeling of fusion reactors, differential and total elastic cross sections have been calculated for collisions of Be, Be⁺, and Be²⁺ in the ground state with atomic hydrogen. The collision energy was varied over more than four orders of magnitude, from 0.01 eV up to 500 eV. The differential cross sections are shown for the full range of scattering angles, at four representative values of energy. The total elastic cross section and its plasma transport relevant moments (momentum transfer, viscosity) are presented as functions of the energy.

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 2. University of Connecticut, Storrs, Connecticut.