ELASTIC PROCESSES IN 1-1000 keV/u COLLISIONS OF Be^{q+} (q=2-4) IONS WITH ATOMIC AND MOLECULAR HYDROGEN[1]

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Owing to the use of beryllium in fusion reactors and the consequent need to model and diagnose plasmas containing this species of impurity, cross sections are presented here for inelastic collisions of 1-1000 keV/u Be^{q+} (q = 2-4) with H and H_2. In particular, the classical trajectory Monte Carlo technique is used to compute total cross sections for (I) ionization, (ii) state-selective excitation, and (iii) state-selective charge transfer.

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