

LATTICE SCHRÖDINGER-EQUATION APPROACH FOR EXCITATION AND IONIZATION OF He⁺ BY ANTIPROTON IMPACT¹

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Cross sections for excitation to low-lying states and ionization of He⁺ by antiproton impact are calculated in the energy range 1–500 keV by solving the time-dependent Schrödinger equation on a numerical lattice. The results are compared with those of other theoretical approaches. Such comparisons allow a strenuous test of the lattice Schrödinger-equation approach for this fundamental collision system.

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