

CONTENTS

H.P. Summers, M. von Hellermann, F.J. de Heer, R. Hoekstra: Requirements for collision data on the species helium, beryllium and boron in magnetic confinement fusion	7
F.J. de Heer, R. Hoekstra, A.E. Kingston, H.P. Summers: Excitation of neutral helium by electron impact	19
T. Kato, R.K. Janev: Parametric representation of electron impact excitation and ionization cross-sections for helium atoms	33
W. Fritsch: Helium excitation in heavy particle collisions	41
F.J. de Heer, R. Hoekstra, H.P. Summers: New assessment of cross-section data for helium excitation by protons	47
M. Anton, D. Detleffsen, K.-H. Schartner: Heavy ion impact excitation of helium: Experimental total cross-sections	51
H.B. Gilbody: Review of experimental data on electron capture and ionization for collisions of protons and multiply charged ions with helium atoms and ions	55
R. Hoekstra, H.P. Summers, F.J. de Heer: Charge transfer in collisions of protons with helium	63
R.K. Janev: Cross-section scaling for one- and two-electron loss processes in collisions of helium atoms with multiply charged ions	71
A.A. Korotkov: Sensitivity of neutral helium beam stopping in fusion plasmas to atomic collision cross-sections	79
K.A. Berrington, R.E.H. Clark: Recommended data for electron impact excitation of Be^{9+} and B^{9+} ions	87
D.L. Moores: Electron impact ionization of Be and B atoms and ions	97
M.S. Pindzola, N.R. Badnell: Dielectronic recombination rate coefficients for ions of the Be and B isonuclear sequences	101
R.A. Phaneuf, R.K. Janev, H. Tawara, M. Kimura, P.S. Krstic, G. Peach, M.A. Mazing: Status and critical assessment of the database for collisions of Be^{9+} and B^{9+} ions with H, H_2 and He	105
P.S. Krstic, M. Radmilovic, R.K. Janev: Charge exchange, excitation and ionization in slow $\text{Be}^{4+} + \text{H}$ and $\text{B}^{5+} + \text{H}$ collisions	113