

ABSOLUTE CROSS-SECTIONS  
OF *s*- AND *d*-IONIZATIONS OF In<sup>+</sup> IONS AT THEIR  
COLLISIONS WITH SLOW ELECTRONS

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S u m m a r y

Effective cross-sections of *s*- and *d*-ionization of In<sup>+</sup> ions by electron impact have been studied using a spectroscopic technique, when the ion and slow-electron beams cross each other at the right angle. A method of determination of the partial cross-sections for the ion ionization by electron impact is described. The absolute values of *s*- and *d*-ionization cross-sections for In<sup>+</sup> ions were found to equal  $2.1 \times 10^{-17}$  and  $5.2 \times 10^{-17}$  cm<sup>2</sup>, respectively. The results obtained testify to the important role of the excitation-autoionization process that makes a substantial contribution to the electron-impact ionization cross-section of ions.