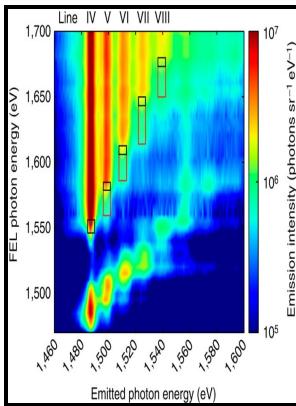


Rate coefficients for the electron-impact excitations of C-like ions

Institute of Plasma Physics, Nagoya University - Phys. Rev. A 91, 062707 (2015)



Description: -

- Cross sections (Nuclear physics)
Electron impact ionization.
Nuclear excitation. Rate coefficients for the electron-impact excitations of C-like ions

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IPPJ-AM ;Rate coefficients for the electron-impact excitations of C-like ions

Notes: Includes bibliographical references.
This edition was published in 1985



Filesize: 46.72 MB

Tags: #Diigo #icon

NIST: Electron

The BEB model is a simplified version of the BED model described in below. Orbital constants obtained from the Hartree-Fock or similar wave functions are adequate. It was used for spectroscopic studies, ion cooling experiments, electron ion collisions, and highly-charged ion surface studies.

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INTRODUCTION Concurrent with the development of sophisticated models of the dynamics of atomic ions in laboratory and astrophysical plasmas has been the increased. Resonance contributions are significant more than two orders of magnitude for many excitations and dramatically influence the line intensity ratios associated with density diagnostics. The results show that the latter approach can obtain resonance contributions reasonably well for most excitations of Cu XV, though a comparison between the two approaches shows that the close-coupling effects are truly significant for rather weak excitations, especially for two-electron excitations from the 3s3p 4 to 3s 2 3p 2 3d configuration.

Excitation

The constant n on the right-hand side RHS of Eq.

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A sample database file is presented for Fe 15+. The capped error bars represent the $\pm 26\%$ systematic experimental uncertainty.

Resonance enhanced electron impact excitation for P

A fully refrigerated electron beam ion trap R-EBIT, 3 T magnet, 30 keV electron energy was installed. As is true for any theory, the BEB model for both total and differential cross sections has its limits. The APS Physics logo and Physics logo are trademarks of the American Physical Society.

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