

EJECTED ELECTRON SPECTRA OF KRYPTON STUDIED BY HIGH AND LOW ENERGY ELECTRONS

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Abstract. The spectra of ejected electrons of krypton have been investigated by using high resolution electron spectroscopy at high and low incident electron energies and at 40°, 90° and 130° scattering angles. The features in the spectra have been identified as singly and doubly excited states, correlation satellites, and double- Auger electrons.

The experiment was performed with the high-resolution electron spectrometer OHRHRA (Jureta et al. 2021). The spectra were obtained in the Constant Analyzer Energy (CAE) mode in which the analyzer pass energy was constant, while the kinetic energy was scanned by varying the retarding ratio of the lens stack. Measurements were performed at high (2019 eV) and low (28-50 eV) electron energies, while the ejected spectra were recorded from 3.5 eV to 25 eV. This is a continuation of our studies on Auger and Coster-Kronig spectra of krypton induced by electron impact (Jureta et al. 2021).

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References

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