

# MEASUREMENTS OF ABSOLUTE ELECTRON EMISSION SPECTRA FOR GRAZING INCIDENCE ION-SURFACE COLLISIONS<sup>1</sup>

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Convoy electron spectra have been measured in coincidence with specularly reflected ions in grazing incidence collisions of carbon ions with a silicon (100) surface. Absolute yields of convoy electrons have been determined experimentally and compared with the results obtained from a classical trajectory Monte Carlo simulation. By comparing the velocity dependence of the convoy yields with theory, we are able to assess the contribution to convoy emission from valence and core electron capture to continuum states of the projectile.

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