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AB In this paper we present the results from two electron scattering experiments performed at the heavy ion storage ring CRYRING at the Manne Siegbahn Laboratory in Stockholm. First we have studied the cross sections for single, double and triple detachment of Cl-, in the energy range 0 eV to 100eV. Second we have studied electron scattering on C-4(-) ions in the energy range 0 eV to 30eV. The neutral particles from the detachment process were detected, and the different branching ratios were investigated. In particular, we searched for a resonance in the cross section due to the formation of a doubly charged C-4(2-) ions.
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