


Total cross-section measurements for e⁻—CO scattering: 80–4000 eV

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Abstract

Absolute total cross sections for electron scattering on CO molecules have been measured between 80 and 4000 eV. For N₂, new measurements without thermal transpiration error allowed us to renormalize previous data from our group. For both gases, good agreement with recent measurements and theory is observed. A semi-empirical fitting procedure allows us to reproduce the experimental data for both gases from 50 to 4000 eV. The fit permits us to extrapolate total cross sections into high energies; at this limit N₂ and CO total cross sections are equal within experimental uncertainties; the difference reported by García, Campos et.al. has not been confirmed.

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