

Abstract Submitted
for the TS4CF08 Meeting of
The American Physical Society

Sorting Category: 4. (E)

Total electron scattering cross section of Fluorocarbons at intermediate electron energies PRASANGA PALIHAWADANA, GILBERTO VILLELA, WICKRAMASINGHE ARIYASINGHE, Baylor University — Total electron scattering cross sections (TCS) of Tetrafluoromethane (CF_4), Trifluoromethane (CHF_3), Hexafluoroethane (C_2F_6) and Octafluorocyclobutane (C_4F_8) have been measured using the linear transmission technique for impact energies 0.10 – 4.00 keV. These TCS are compared to existing experimental and theoretical TCS in the literature. Based on the present measurements, an empirical formula is developed to predict the TCS of fluorocarbons as a function of incident electron energy.

Prefer Oral Session
 Prefer Poster Session

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Date submitted: 04 Sep 2008

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