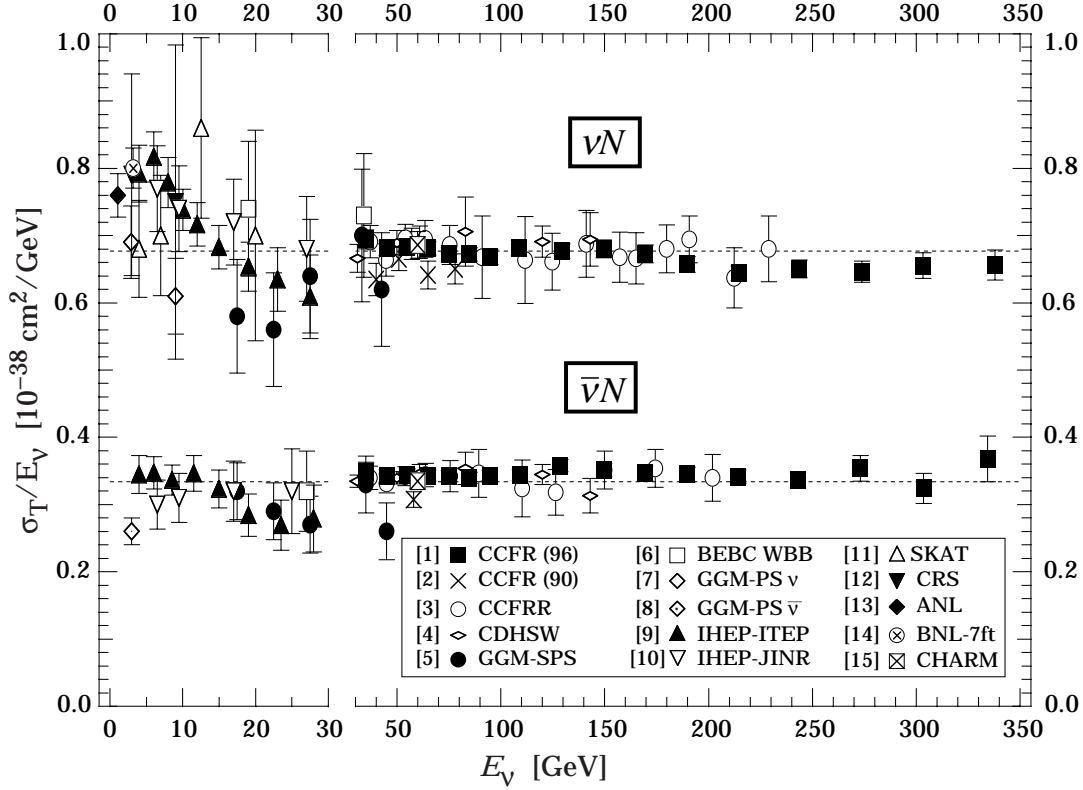


## Muon Neutrino and Anti-Neutrino Charged-Current Total Cross Section



**Figure 38.7:**  $\sigma_T/E_\nu$ , for the muon neutrino and anti-neutrino charged-current total cross section as a function of neutrino energy. The error bars include both statistical and systematic errors. The straight lines are the averaged values over all energies as measured by the experiments in Refs. [1–4]:  $= 0.677 \pm 0.014$  ( $0.334 \pm 0.008$ )  $\times 10^{-38}$  cm<sup>2</sup>/GeV. Note the change in the energy scale at 30 GeV. (Courtesy W. Seligman and M.H. Shaevitz, Columbia University, 2001.)

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