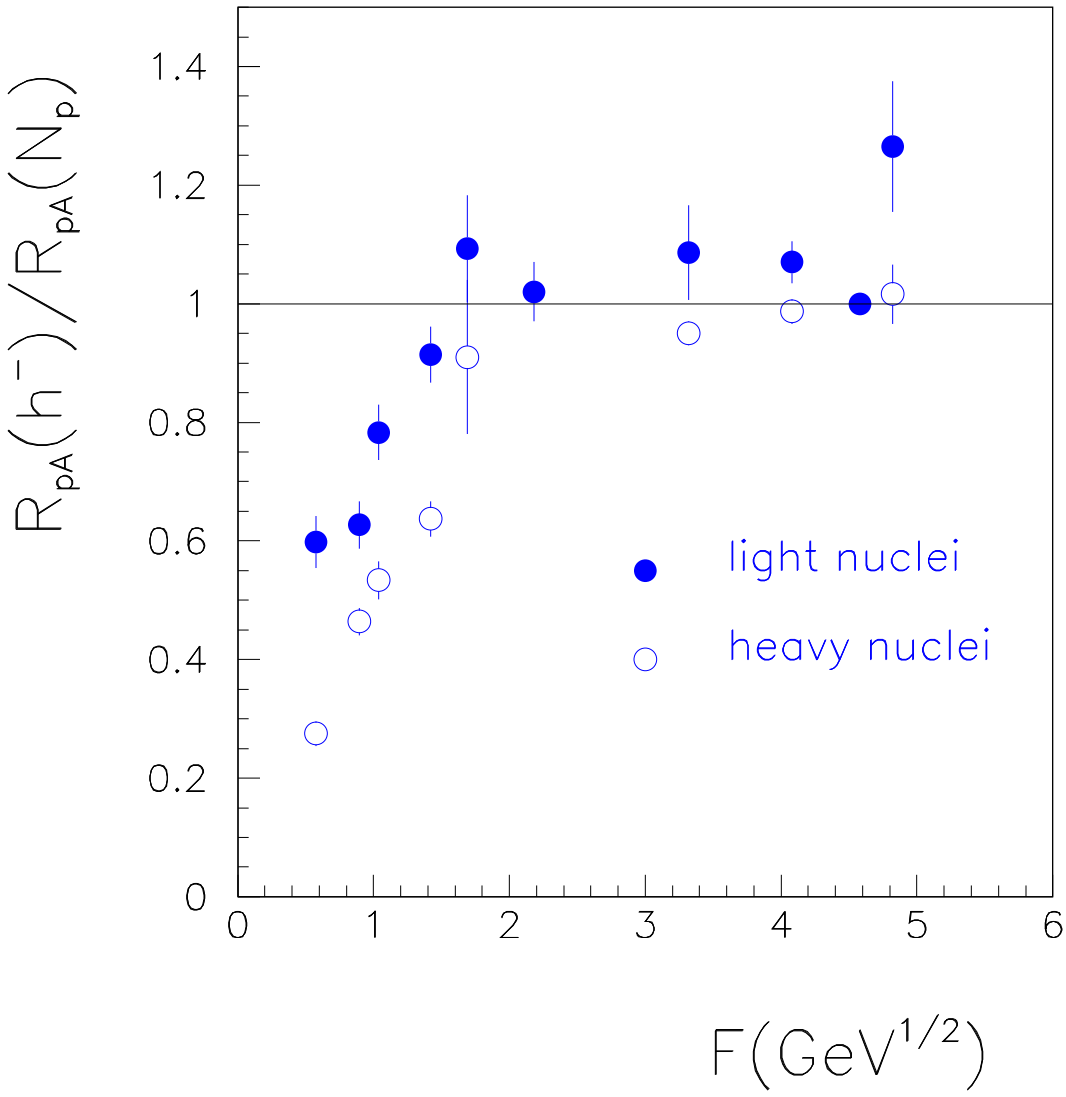$$\langle n_h^- \rangle_{BA} = \frac{\langle N_p \rangle_{BA}}{\langle N_p \rangle_{NN}} \langle n_h^- \rangle_{NN}$$