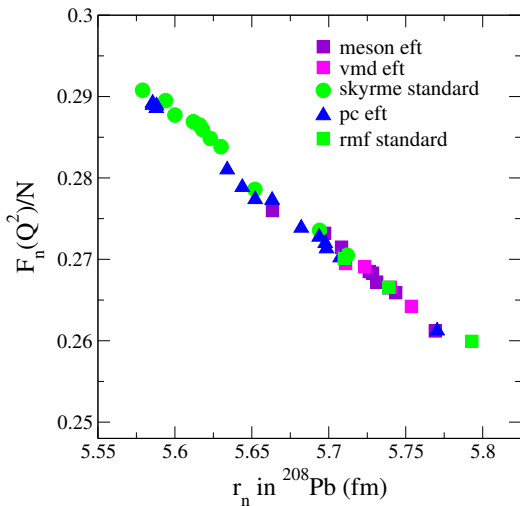


Form Factor at Low Q^2 vs. Neutron Radius in Pb

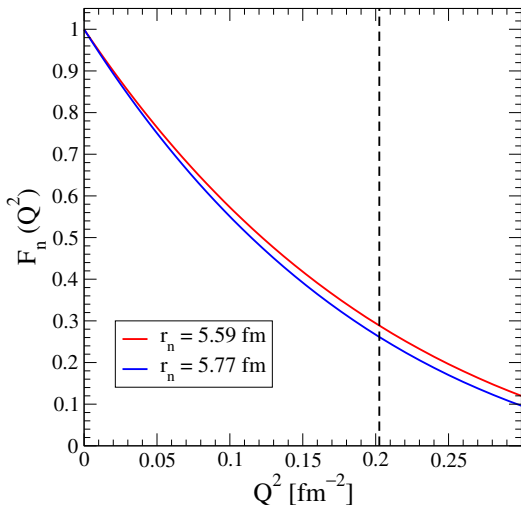


- How are the low momentum form factor and r_n correlated?

- Form factor: $F_n(Q^2) = \int d^3r \rho_n(r) j_0(qr)$

- Here: $q \equiv (Q^2)^{1/2} = 0.45 \text{ fm}^{-1}$

^{208}Pb Neutron Form Factor at Low Q^2



- Neutron form factor for two point coupling models

- Form factor: $F_n(Q^2) = \int d^3r \rho_n(r) j_0(qr)$

- Here: $Q^2 = 0.202 \text{ fm}^{-2}$