

typical values (finite nuclei), E_{corr} =-2.0 MeV (-0.4 MeV, ¹¹Li), $v_F/c \approx 0.3$ (0.14, ¹¹Li)

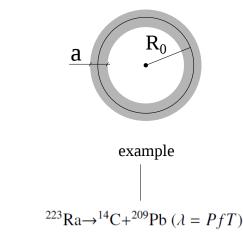
$$\xi = 10 \text{ fm} (22 \text{ fm}, {}^{11}\text{Li})$$

genralized quantality parameter

$$q_{\xi} = \frac{\hbar^2}{2m(\xi)^2} \frac{1}{|E_{corr}|} \approx 0.1 \quad (0.1, {}^{11}\text{Li})$$

strongly correlated (cluster like $q_{\xi} \ll 1$), weakly bound ($|E_{corr}|/\epsilon_F \lesssim 0.06$) very extended $(\xi/d \gtrsim 5, \ d = \left(\frac{4\pi R^3}{3A}\right)^{1/3})$ objects

subject to a strong external field



$$P = \begin{cases} 10^{-76} & (\Delta = 0) \\ 10^{-10} & \Delta_{exp} \end{cases}$$

$$\langle r^2 \rangle_{Cooper}^{1/2} = \xi = \frac{\hbar v_F}{\pi \Delta} \quad (\approx 24 \, \text{fm}; \Delta = 0.8 \, \text{MeV})$$