

typical values (finite nuclei),  $E_{corr}$ =-2.0 MeV (-0.4 MeV, <sup>11</sup>Li),  $v_F/c \approx 0.3$  (0.1, <sup>11</sup>Li)

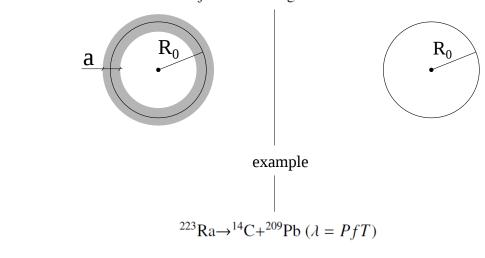
$$\xi \approx 10$$

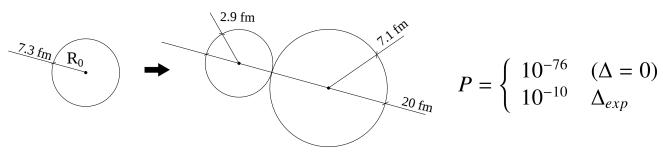
genralized quantality parameter

$$q_{\xi} = \frac{\hbar^2}{2m(\xi)^2} \frac{1}{|E_{corr}|} \approx 0.1 \quad (0.08,^{11} \text{Li})$$

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

subject to a strong external field





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