

Figure 3.A.5

Aclaración correlaciones Fig. 3.A.5

escribo todo como tendria que ser

$$\xi(\xi/d)$$

$$10^4 \text{\AA} (10^4) \quad | \quad 14 \text{ fm} (4)$$

overlapping
number of pairs

$$10^6 \quad | \quad 6$$

$$\Delta(\Delta/E_F)$$

$$\approx 1 \text{ meV} (10^4) \quad | \quad \approx 1.4 \text{ MeV} (10^{-2})$$

generalized quantality
parameter

$$q_\xi = \frac{\hbar^2}{2m\xi^2} \frac{1}{2\Delta}$$

$$10^{-5} \quad | \quad 10^{-2}$$

probing of gauge deformation

$$P_1 = 10^{-10}$$

$$P_1 = 10^{-3}$$

observation of supercurrents of $2e$ carriers (Josephson effect) between two weakly coupled superconductors separated by a barrier allowing essentially for single electron tunneling

single Cooper pair tunneling between members of a pairing rotational band satisfying

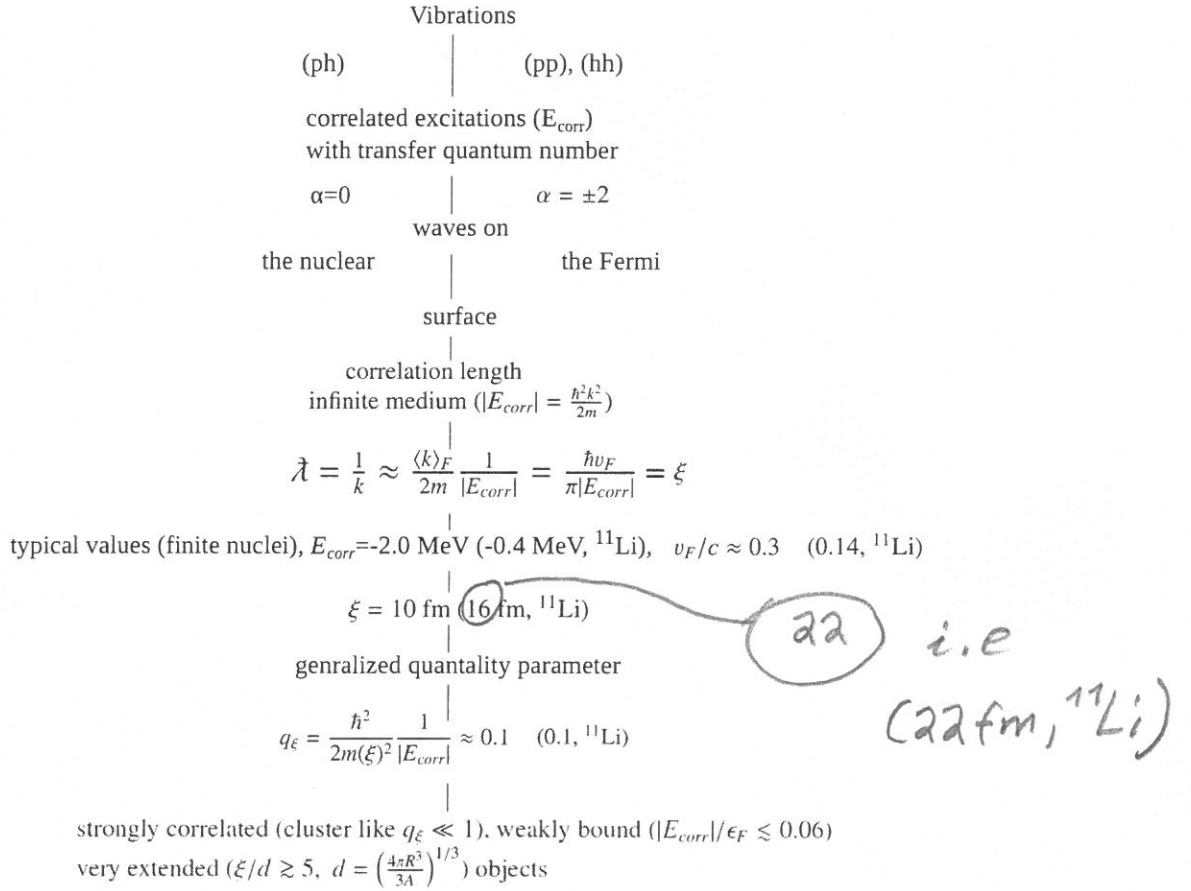
$$\frac{\sigma(g_s(N) \rightarrow g_s(N+2))}{\sum_{exc} \sigma(g_s(N) \rightarrow g_{exc}^+(N+2))} \gg 1$$

fulfilling

$$P_2 \approx P_1$$

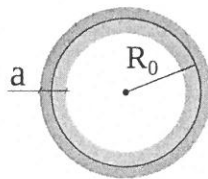
$$(\sigma_2 \approx \sigma_1)$$

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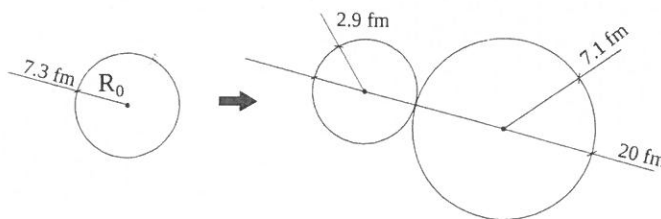
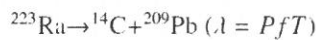


22 i.e (22 fm, ^{11}Li)

subject to a strong external field



example



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

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

Figure 3.B.3