where $\int_{\Omega} \frac{\partial^3 h}{\partial x^2} \Lambda_{\rho}(\vec{k}) = Z$

(2) Fis (ti) = N = number of pairs

- Let's verify (1) in our way taking only 'So and 35, contributions from the high-q SUSUt term in single-nucleus and poir mount has distributions
- We will start from Ainal equations in "Single-nedres momentum distribution (full derivation)" and " Pair remember distribution (fill derighter)".

- Single-nection &U&U+:

 $\Lambda_{\lambda}^{p}(q) = \frac{1}{2} \frac{1}{(2\pi)^{6}} \left(\frac{2}{\pi}\right)^{2} \int_{0}^{\infty} dk \, k^{2} \int_{0}^{\infty} dk \, K^{2} \int_{0}^{\infty} \frac{dx}{2} \, x$ (80% (k, 13-4RI) Op Op + (+ 80% (k, 13-1RI) +

$$\frac{3}{4} SU_{S_1-3P_1}^{2}(k, |\vec{a}-\frac{1}{2}\vec{K}|) \left(\vec{G}_{P}^{+} \vec{G}_{n}^{-} + \vec{G}_{n}^{+} \vec{G}_{p}^{-} \right) \right]$$

$$\frac{3}{4} SU_{S_1-3P_1}^{2}(k, |\vec{a}-\frac{1}{2}\vec{K}|) \left(\vec{G}_{P}^{+} \vec{G}_{n}^{-} + \vec{G}_{n}^{+} \vec{G}_{p}^{-} \right)$$

$$\frac{1}{4} \vec{K} \pm \vec{k} | = \mathcal{O} \left(k_{P}^{N} - |\frac{1}{2}\vec{K} \pm \vec{k}| \right) \text{ and }$$

$$\frac{1}{4} \vec{K} \pm \vec{k} | = \sqrt{\frac{K^{2}}{4} + k^{2} \pm Kk \times}$$

$$\frac{1}{4} Aurroge \text{ our}$$

$$\frac{1}{4} \vec{K} \pm \vec{k} | = \sqrt{\frac{K^{2}}{4} + k^{2} \pm Kk \times}$$

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$$\frac{1}{4} \vec{K} + \vec{k} +$$

$$= \sum_{n} \int_{1}^{p_{p}} (q) = \frac{1}{4} \int_{2\pi}^{1} \left(\frac{1}{\pi} \right)^{2} \int_{0}^{\infty} dh h^{2} \int_{0}^{\infty} dG^{2} \times \int_{1}^{\infty} \frac{dx}{2} \left[SU(s_{0}(h,q)) G_{p}^{+} G_{p}^{-} \right]$$
(5)

Overall factors in front of integrals only differ by \$\frac{1}{2} \rightarrow \frac{1}{4}.

Then we see that if we assume

 $SU(k, |\vec{q} - \vec{\uparrow}\vec{K}|) \approx SU(k, q)$ for large q then

$$\Lambda_{\lambda}^{\rho}(q) \rightarrow \lambda \Lambda_{\lambda}^{\rho\rho}(q) + \Lambda_{\lambda}^{\rho\gamma}(q) + \Lambda_{\lambda}^{\gamma\rho}(q)$$

$$(7)$$

VIOS CAUS MIS

Some helds for 12 (9).