

$$N^B - N^{\bar{B}} = \int d^3\sigma_\mu \sum_i \frac{g_i}{(2\pi)^3} \int_p p^\mu \left[(f_0^B(x, p) - f_0^{\bar{B}}(x, p)) + (\delta f^B(x, p) - \delta f^{\bar{B}}(x, p)) \right]$$