B28 | B decan a) $n_{v} = 2 \int \frac{d^{3}p}{h^{3}} \cdot \frac{1}{\frac{1}{3}e^{pq}+1} = \frac{8\pi}{h^{3}} \int \frac{e^{2}dp}{\frac{1}{3}e^{pep}+1} = \frac{16\pi}{(kpc)^{3}} \delta_{3}(3)$ high $T \Leftrightarrow \frac{1}{3}e^{\beta c\rho} >> 1 \Rightarrow \frac{1}{3}e^{\beta c\rho} \approx 3e^{-\beta c\rho} (9 \ll 1)$ $N_{m,h}T = \frac{8\pi}{h^3} \leq \int_0^\infty e^{\beta c\rho} e^{\beta c\rho} = \frac{8\pi}{h^3} \cdot \frac{5}{\beta 0^3} \int_0^\infty e^{-\chi} x^2 dx$ = 160 } $\int = \frac{n(h\beta c)^3}{(1+\beta c)^3}$ Charsical limit My= LT In (n KBCB) =000 DNG At T=0 $\mu(T=0)=E_{F}$ of $N = \frac{g_{TT}}{h^{3}} \begin{cases} E_{F}/c & g_{TT} \\ p^{2} dp = \frac{g_{TT}}{3hc} \end{cases} E_{F}^{3}$ $\mathcal{S}(\mathcal{E}) = \mathcal{O}(c\rho - \mathcal{E}_{\mathcal{E}})$ b) Reaction produces equal \$ 00 p.e. 0 $N_{p} = \frac{2}{\lambda_{0}^{3}} \int_{3/2} \left(\mathcal{C}_{p}^{\beta \mu_{p}} \right)$ Ne = Np = = = 312 (B/4c) No = Np = (617 (B) 3 f3 (CB) n= no-np = 2 8312 (c B/m) DA = Mn-Mp-Me>O

Mn=Mp+Me+Mo

הנני משן ל שיוני משן

high T:
$$kTh\left(\frac{1}{2}(n_0-n_p)h^3\right) = kTh\left(\frac{1}{2}n_p h^3\right) + kTh\left(\frac{n_p h^3}{16\pi}\right)$$
 $+ kTh\left(\frac{n_p h^3}{16\pi}\right)^3$
 $(n_0-n_p)_{\lambda m}^3 = n_p^3 \lambda_p^3 \lambda_e^3 \frac{h^3}{32\pi}$

For $n_p < n_0$ $n_p = \left[n_0 \frac{\lambda_n^3}{\lambda_p^3 \lambda_o^3} \frac{32n}{h^3 p_0}\right]^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}}$
 $\frac{d}{dt} = \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} n_p h^3\right)^{\frac{1}{3}} + \frac{1}{2} \frac{1}{2}$

 $N_{p} = \frac{h^{2}}{3\pi^{2}(ct)^{3}} \cdot \left[\frac{t^{2}}{2m_{n}} \left(3\pi^{2}n_{0} \right)^{2/3} \right]^{3}$