2003 6.4) Y+Y LOC++C Mr=0 > M+4 =0 No= 2 8 Brows 4 pice + Br Non-relationshie limit Pr 2 ceme? (3427300)2/3 << 2mc3 c) ht >> Per <> classical non-rel limit. E= B= + mc2 Nbscs+wscn = w(s/1+ bs = w(s(1+ twoce)  $N = 2 < \frac{1}{\sqrt{2000}} = \frac{1}$ 

$$N^{-} \Lambda^{+} = \frac{1}{\lambda^{6}} e^{-2\beta mc^{2}} = \Lambda^{-} (\eta_{0} - \Lambda^{-})$$

$$N^{-} = \frac{1}{\lambda^{6}} \left[ \eta_{0} + \frac{1}{\Lambda^{2} - 16} \frac{1}{2\beta mc^{2}} \right]$$

$$N^{+} = \eta_{0} - \Lambda^{-} = \frac{1}{\lambda^{6}} \left[ \eta_{0} - \frac{1}{\Lambda^{6}} \frac{1}{2\beta mc^{2}} \right]$$