Ef = 17.6 MeV. 
$$n = 10^{20} \text{m}^{-3}$$
  $< 647 = 1.135 \times 10^{-22} \text{m}^{3}/\text{s}$ .

 $\Rightarrow Sf = 4.994 \times 10^{18} \text{ MeV. m}^{-5} \cdot S^{-1} = 0.8 \text{ Mwm}^{-5}$ .

From Fig. :  $S_{B} = (\frac{2^{1/2}}{2\pi^{5/4}}) \left(\frac{2^{3} c^{3} h m e^{3/5}}{8^{3} c^{3} h m e^{3/5}}\right) \text{ Zeff } ne^{2} \left(\frac{1}{2} w/m\right)^{3}$ .

 $= 1.625 \times 10^{-38} \text{ Zeff } ne^{2} \sqrt{\text{Te (eV)}} w/m^{3}$ .

 $Z_{eff} = \frac{3}{ne} \frac{2^{10}}{ne}$ .  $T = 10^{2} \text{ eV}$ .

 $\Rightarrow S_{B} = 1.615 \times 10^{4} w/m^{3}$ .

 $S_{C} = \frac{e^{4}}{3 \times 10^{2}} \frac{1}{8^{3}} ne \left[ (cu) \right]$ 
 $B = 6T$ .  $T = 10^{2} av$ .

 $\Rightarrow S_{C} \approx 2.74 \times 10^{6} w/m^{3}$ .

 $S_{C} = \frac{18.3 \text{ MeV}}{2.25 \times 10^{-3}} \times 10^{-3} \text{ meV} m^{-3}$ .

 $S_{C} = 1.017 \times 10^{16} \text{ MeV} \cdot m^{-3} \cdot \text{s}^{-1} \approx 0.00163 \text{ MW m}^{-3}$ .

 $S_{C} = 1.005 \text{ EV} = 10^{5} \text{ eV}$ .  $Z_{C} = \frac{1}{2} \text{ eV}$ .

作业3. 杨丽母. 20201127

=>SB ≈ Z. 0 6 x 10 5 W/m3.

-> Sc = 2.24 x10 7 w/m3.

Sc: T= 10 5 eV.

(1). 聚复反应功率客俊: Sf= Efnin2 <6V>= Efn <6V>.