

$$M_{1820} = 10$$

$$L_{\text{edf}} = 10^{39} \text{ erg/s}$$

$$\frac{10^{38}}{\pi r_0^2 \sqrt{f} \beta c}$$

↓ ↓
3 3

$$\log = 1.5 \times 10^6$$

$$U_e = \int n(E) E dE$$

$$38 - 0.5 - 12 - 0.5 - 10.5$$

$$10$$

$$10^{14.5} \text{ erg/cm}^3$$

$$U_b + U_e = 10^{14.5}$$

$$\frac{B^2}{8\pi} \approx 10^{14}$$

$$B^2 \approx \frac{U_e}{U_b} = \frac{U_e (1 - \Gamma)}{R} = 1$$

$$B^2 \sim 10^{13}$$

$$B \sim 10^6$$