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$$\frac{1}{P^2} \frac{P_0 - P}{P} \sim P^{-1}$$
$$\frac{k_B}{3} \frac{P_0 - P}{P} \sim \frac{1}{3} k_B T \quad (2a)$$
$$\sim 10^{-53}$$
$$\sim 10^{-26}$$
$$\sim 10^8 \text{ J}$$
$$\sim 10^{10} (10^{11})$$

$$E = mc^2$$
$$E = \frac{1}{2} \hbar \sqrt{k/m} \quad \beta =$$
$$\frac{1}{\mu_0 c^2} (\vec{E} \times \vec{B})$$

$$\sqrt{\frac{3kT}{m_p}} = \sqrt{\frac{3kTN_A}{M_m}} = \sqrt{\frac{3R_m T}{M_{Fe} \cdot 10^{-3}}} \quad E = \frac{\hbar k^2 l}{2m}$$

