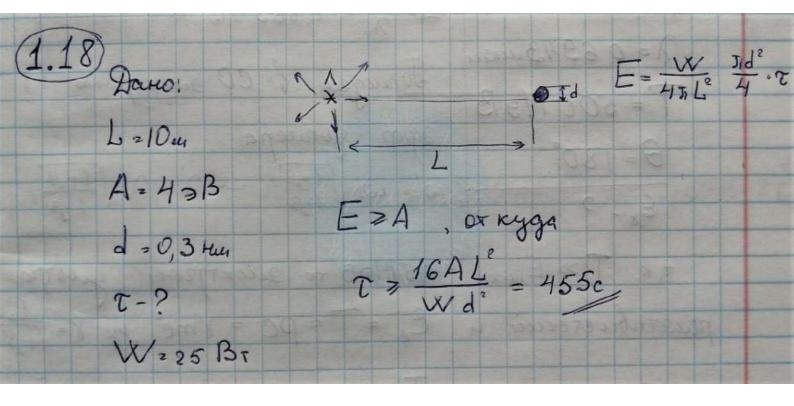
3 areprieressee: nouvoir
3CH: Papor = 0 + Papoles
P=NF F= APP
W2 SE NPC P2 Sotw NO NC
F = ASW
$uy P = N. \frac{5}{Nc} \frac{1}{5} = \frac{w}{c}$
3CU: Papor 2 - Papor + Peoodis, remy

(1.7) Dario: $\vec{E} = \vec{E} \cdot (\cos \omega t + \frac{m}{2} \cos [(\omega + \Omega)t] + \omega = 2 \cdot 10^{6} e^{t}$ $\Omega = 2 \cdot 10^{6} e^{t}$ $E_{\mu} = 13,5 > B$ $E_{\mu} = 7$ bound spex ractor.

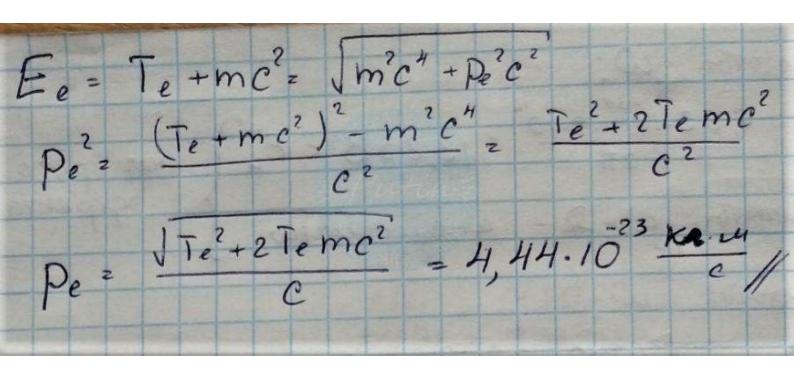
Due racroth ω: $t_{1}\omega = \frac{6.63.10^{34}.2.10^{16}}{2\pi}.2.10^{16} = 13.2 3 B < E_{11}$ HEX apoto
Due racroth ω-Ω- anamomento $t_{1}\omega + t_{2}\omega + t_{3}\omega + t_{4}\omega + t_{5}\omega + t_{5}\omega$



1.23) Dano:
$$\lambda = 0.02 \text{ Hum}$$

$$\partial = 90^{\circ} \quad \text{Te} = \frac{hc}{\lambda^{\circ}} - \frac{hc}{\lambda^{\circ}}, \text{ ap } \lambda = \lambda + \Lambda \left(1 - \cos \theta\right)$$

$$Te, Pe - ? \quad \text{Te} = hc \left(\frac{1}{\lambda} - \frac{1}{\lambda + \Lambda(1 - \cos \theta)}\right) = \frac{hc}{\lambda} \left(\frac{1}{\lambda} - \frac{1}{\lambda + 2\Lambda \sin^{2}\theta_{2}}\right) = 67243B$$



1.35)

Pario:

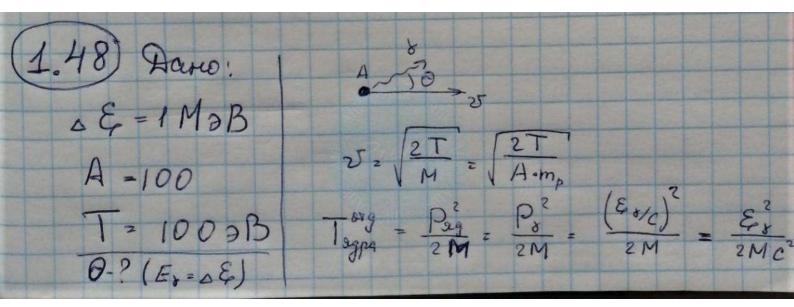
$$\lambda = 0,6943$$
 μκι

Tepeugeen δ CO succeptions

 $\theta = 180^{\circ}$
 $\delta = 180^{\circ}$

 $\mathcal{E}_{8}^{"} = \frac{h_{C}}{\lambda"} = \frac{4 \, h_{C}}{\lambda_{o}} \left(\frac{\mathcal{I}}{mc^{2}} \right)^{2} = 6,85 \, \text{MaB}$

(1,39) Dano: | Barron Dinnureina: h) = Enon + A + Ta Es= 5 MaB T. K. Enon & 0, 136 MaB & to, A = 10 aB, 10 Tq = Ex При Конеплон-эфф. $\xi_8 + m_e c^2 = \xi_8 + m_e c^2 + \xi_{uon} + T_{r}$ Обхуда $T_k \approx \xi_8 - \xi_8' = \frac{hc}{\lambda} - \frac{hc}{\lambda + s\lambda} = \frac{hc}{\lambda} - \frac{\lambda}{\lambda + s\lambda}$ Энергия электрина шаксиенальна при уше paccearens 0,= 180°. - 57 max = 1 (1-cos 0.) = 21 = 2 mg Tr 2 thc 2th 1 = Er 2 Er 1 = 2 Er mec2 1+ 2 Er mec2 Dagremerme annaparypros no surprim $\Delta T = T_{\phi} - T_{k}$ Top = \(\xi_8 - \rac{1}{\kappa} \) \(\frac{1}{\xi_8} \) \(\frac



Thu =
$$E_x - T_{ag}^{ag} = E_x \left(1 - \frac{E_x}{2\text{Mc}^2}\right)$$
 — ucsummas the pung

B $1CO$: nog yncom O x-kbates:

 $W(O) : W_o(1 + \frac{v}{c} \cos O) = \frac{E_x}{h} \left(1 - \frac{E_x}{2\text{Mc}^2}\right)$
 $\left(1 + \frac{v}{c} \cos O\right) = \frac{E_x}{h} \left(1 + \frac{v}{c} \cos O - \frac{E_x}{2\text{Mc}^2}\right)$
 $\frac{v}{c} \cos O = \frac{E_x}{2\text{Mc}^2}$
 $\frac{v}{c} \cos O = \frac{v}{2\text{Mc}^2}$
 $\frac{v}{c} \cos O = \frac{v}{2\text{Mc}^2}$