

编号: 电初分 3 H15. 班级:

姓名:

12.6.

$$dx' = \chi'(dx - vdt). dt' = \chi'(dt - \frac{v}{c}dx)$$

$$u' = \frac{dx'}{dt'} = \frac{dx/dt - v}{1 - \frac{v}{c}dx} = \frac{u - v}{1 - \frac{uv}{c}}$$

$$V_{AC} = \frac{v_{AB} - (-v_{BC})}{1 - \frac{v_{AB}(-v_{BC})}{c}} = \frac{v_{AB} + v_{BC}}{1 + \frac{v_{AB}v_{BC}}{c}}$$

12.34

$$\vec{E} = \gamma' mc^2$$
.

$$V' = \frac{zV}{1 + V^2/c^2} \rightarrow \beta' = \frac{2\beta}{1 + \beta^2}.$$

$$\Rightarrow \overline{E} = \frac{2E^2}{mc^2} - mc^2$$

76 mc=1 GeV. E=30Gev > E = 1799 GeV >> 4E.

$$\vec{E} = -\frac{g^2}{4} \cdot \vec{y}$$

$$C: \vec{E} = -\frac{?}{4\pi\epsilon_0 d^2} \hat{y}. \quad \vec{B} = 0. \quad \vec{F} = -\frac{?^2}{4\pi\epsilon_0 d^2} \hat{y}.$$

A:
$$y = \frac{1}{\sqrt{1-v_{fcr}^2}}$$
. $E^7 = -\frac{\chi_q}{4\pi\epsilon_0 d} \hat{y}$.

$$B: V = \frac{2\nu}{|4\nu|/c^2} \Rightarrow \beta' = \frac{2\beta}{|4\beta|^2} \Rightarrow \gamma' = \frac{|4\beta|^2}{|-\beta|^2}.$$

$$\vec{E} = -\frac{\gamma' q}{4\pi \epsilon_0 d} \ \vec{y}. \ \vec{B} = -\gamma \beta' \frac{1}{c} \frac{q}{4\pi \epsilon_0 d^2} \vec{z}. \ \vec{F} = -\gamma' \frac{q^2}{4\pi \epsilon_0 d^2} \vec{y}.$$

说: 160年 160日 到

9.1. (补左第個周作业能的一般) p(1,0,4)=p(1,0,4-wt) (a) qlm= \ (im (0, p) r p(r, 0, q) dx. =) Y* (0, q+wt) r'p(r,0,q) dx. = (\(\frac{1}{4} \) \(\text{(0,p)} \) \(\frac{1}{2} \) \(\text{(0,p)} \) \(\text{(0 96-m(t) (im(0, p) + qunct) (im(0, p) = (q(m(t) (im(0, p)) + qun(t) (im(0, p)) + = Re[2() Yum (ad) r'p(roig)d'x) Yuncor \$) e-iment] (b) $p_{-n}(x) = p_{n}(x)$ P(X, +) = Enprise -inwot (c). P(X, t) = 2 S(r-R) S(coso) S(&-wot). a: 200=47 9. 200 eff = 47 9R 211 =122R 9110ff = -122 PR b: Pr(x) = I St p(xit)einwordt = 27R2 S(F-R) S(coso)einp 9(m(Pn(x)) = Sr (Y(m (0,4) Pn(r,0,4) r sino dr dod = Smng R (y * (2,0)

当L·m=ZKM, 解射, 频率为mwo.