Phys 121, Fall 2021, Rocket Science, Module 5 1) to ExB = \$ 引起局sihの=Ex居 IEIB = Eo cos (wt) Bo cos(wt) = FoBo cos(wt) cos(w+) (OS(wt) = = (cos(2wt)+1) $\left\langle \frac{1}{2} \left(\cos(2\omega t) + 1 \right) \right\rangle = \frac{1}{2} \left\langle \left(\cos(2\omega t) \right) + \left\langle \frac{1}{2} (1) \right\rangle$ = = Z (coslaut) >+ = (1) Avg = 2 X: = 21 Pg3)
3(G1) C= & => Dt = & 3) S - P = Pl - Excl - Ex

Discuss: D = (E)Momentum dusity

(momentum over volume) P = E EC

Pg. 4) Discuss: 3 cm a)

Discuss: Frequency of light &.

Erergy of light &

Worrentum of light &

Red Shift = loss of momentum