







	- A - 11 - 1	Date
•	The e of atom was at west Collision was elastic.	before collision.
-	EM Hadlation is not a continu	ious spectarry.
	but counts of stream of part	icles having
	space with speed of light(c).	og In the free
	space with speed of light(c).	
	facording to conservation of ener	194
	$E + \mu_0 C^2 = E_e + E'$ $E = \mu_0 C^2$	
		in the second se
F	$e = M^2c^4$	
	= Wo 2C4	ri din india in the
	$\sqrt{1-V/C)^2}$	
	$= \frac{v_0^2}{(\sqrt{1-(v/c)^2})^2} \left[v^2 - v^2 + c^2 \right] c^2$	• 1/11 7 7 7
1	(VI-(VIC)2)2	
		7.28 - 1
	$\frac{2}{(\sqrt{1-v^2/c^2})^2} \frac{\mu_0^2 v^2 c^2}{(\sqrt{1-v^2/c^2})^2} \frac{b}{\sqrt{v^2}} + \frac{\mu_0^2 c^2}{\sqrt{v^2}}$	$(2\sqrt{2})$
•	(1-V2/12)2 22 V2	12
-	C2	
4-X 15	= mv2c2 + w2c4	
- ,	$= \frac{m^2 c^2}{2c^2 + w_0^2 c^4}$	
E	2 Pect W2C4	
e	VIECT WO (7	



-			17 6 M
-	E + M C2 = P2 C2 + M2 C4	+5'	

 $-\mathcal{O}_{\sim}$

Conservation of momentum.

-0

from D

(E-E1)2 + m2c4 + 2(E-E) m2c2 = Pec+ m2c1

=1
$$-2EE' + 2(E-E')w_0c^2 = -2EE' \cos\theta$$

=1 $-2(E-E')w_0c^2 = 2(EE')(1-\cos\theta)$

$$\left(\frac{1-1}{E'}\right)W_{0}C^{2}=\left(1-\cos\theta\right)$$

$$\frac{1}{h} = \frac{1}{h} (1 - \cos \theta)$$

$$\Delta \lambda = \lambda' - \lambda = Compton = \lambda_c (1-casp)$$

Shift \rightarrow Compton wavelength

	9.1×10-31×89×1024
	81.9 x 10 = SI-18 x 10 12
$\Delta \lambda = (1-\cos \theta)$	
Case $0 := 0$ = 0 = 0	
$\lambda' = \lambda$	Sing to good the growth of the second
Case (1): - 0 = 90	Line Con Line
$\Delta \lambda = h$	
M, C	
$\lambda' = \lambda + h$	
MoC	
Case 3:- 0=180°	
$\Delta \lambda = 2h$ W_{sc}	
$\lambda' = \lambda + 2h$ μ_{c}	An experience of the second
	W 71% 11542 88 (131) 1 3 3 1
$\lambda' \in (\lambda + 0, \lambda + 2)$	1/111 ()
X E N CO , ATZ	17 MoC)
Assignment tant = cot (9/2)	
$\frac{4s}{3} = \frac{\cot(9/2)}{\cot(9/2)}$	
1-1 h D W ₀ C ²	
77	
Assignment E= E-E' = h(v-v')	Fr = NV (x(1-case)
	L1+x(1-c00
Fraction of every	2 /E-E, /x100
signal	E
	= (D) \ XIOD
	(2+4)