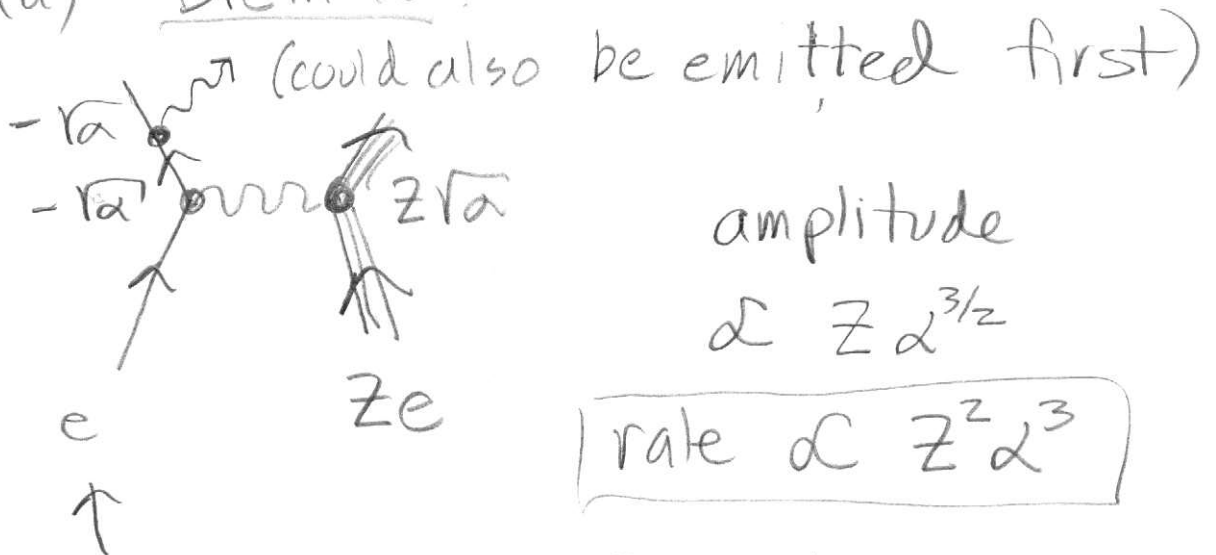
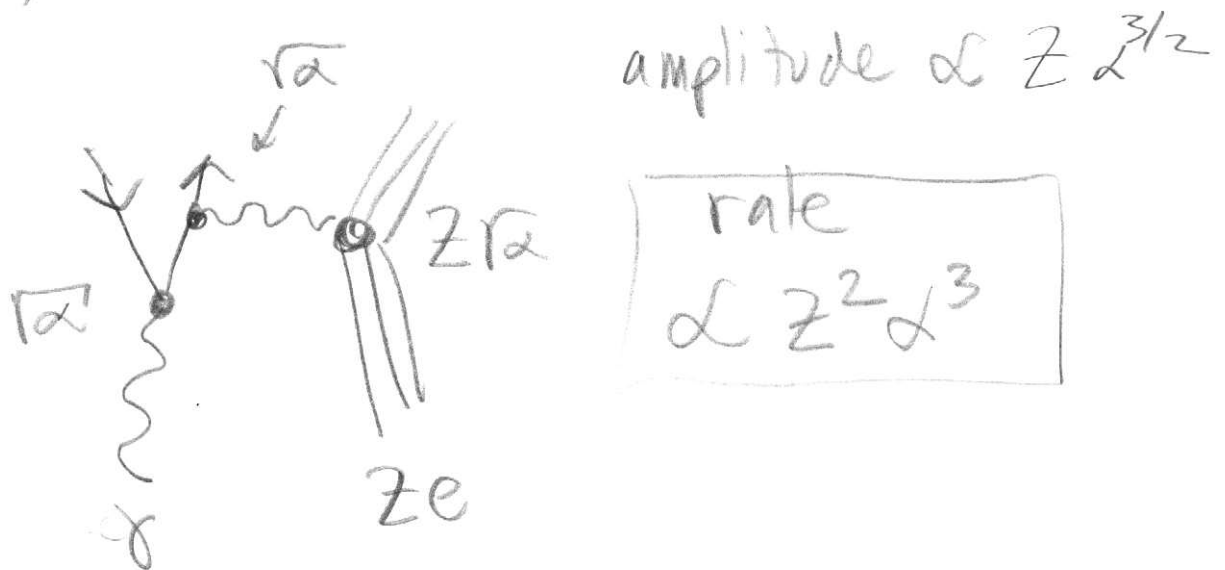


PS#1

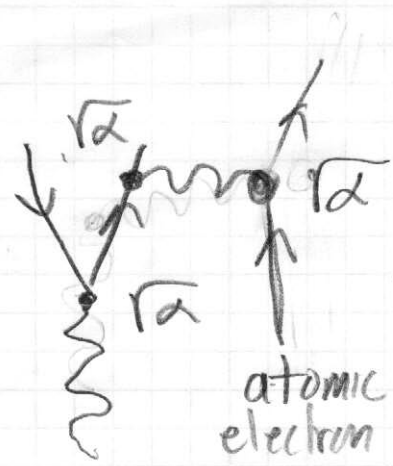
2(a) Bremms:

diagrams where e^- emits γ are dominate because of the small mass of the electron. The diagrams where the nucleus radiates are highly suppressed.

(b) Pair Production



(c) Triplet Production



amplitude :

$$\propto (\alpha)^3$$

Rate :

$$\boxed{Z \times \alpha^3}$$

↑
electrons,
distinguishable