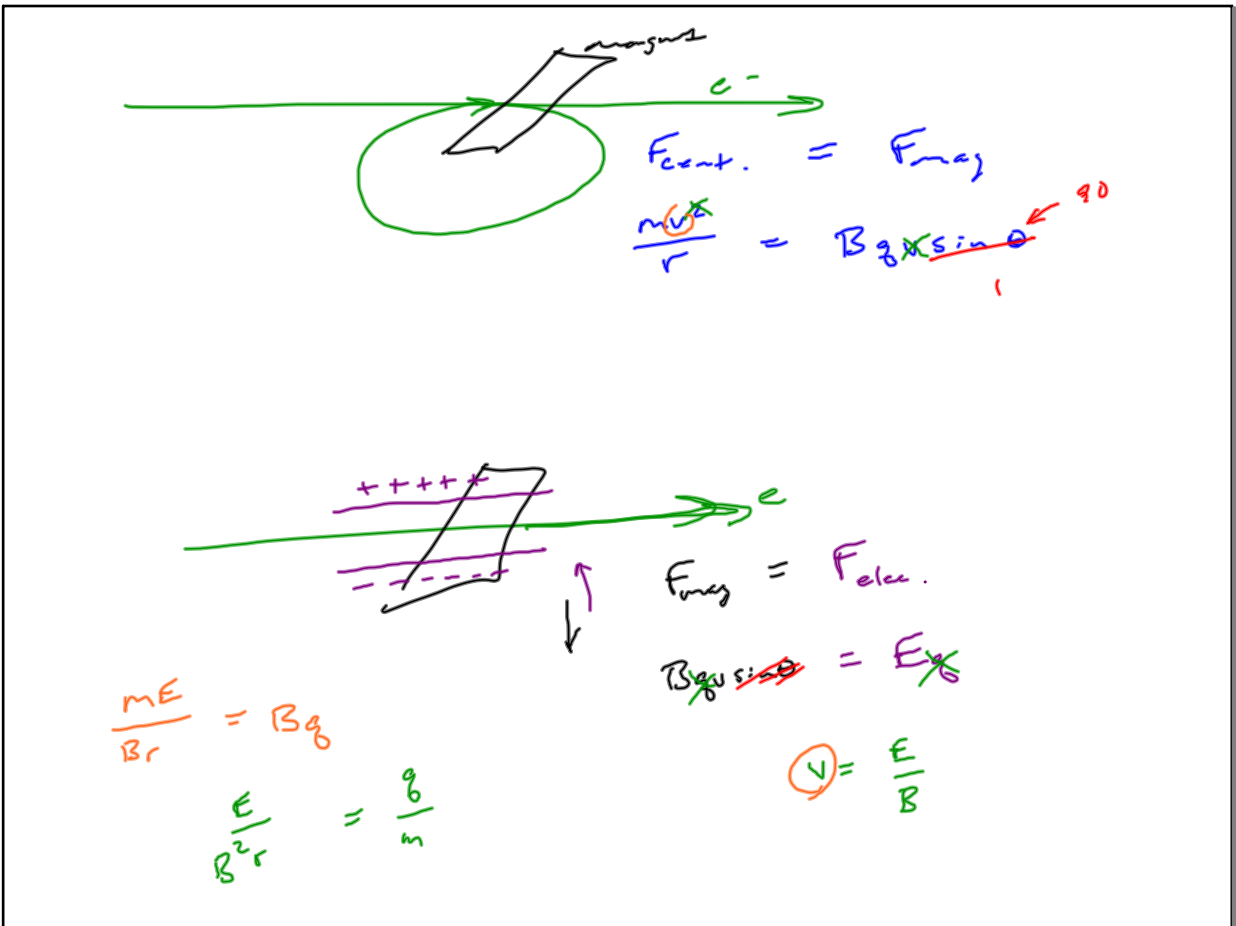



Oct 5-7:29 AM



Oct 5-7:40 AM



$c = \lambda \nu$      $E = h \nu$

so... 4  $\lambda$ 's  $\Rightarrow$  4  $E$ 's

Balmer     $E = -k \left( \frac{1}{4} - \frac{1}{n^2} \right)$   
 $n = 3, 4, 5, 6$

Rydberg     $\frac{1}{\lambda} = R \left( \frac{1}{4} - \frac{1}{n^2} \right)$

Lyman + Paschen  $\rightarrow$  IR, UV.  $\Rightarrow$   $\left( \frac{1}{4} \right)$   
 $\frac{1}{4}$  or 1

Bohr     $E = -k \left( \frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$   
to from

Oct 5-7:48 AM

Det. Prop.

3g C : 1g H  
 12g C : 4g H  
 8.1g C : 2.7g H

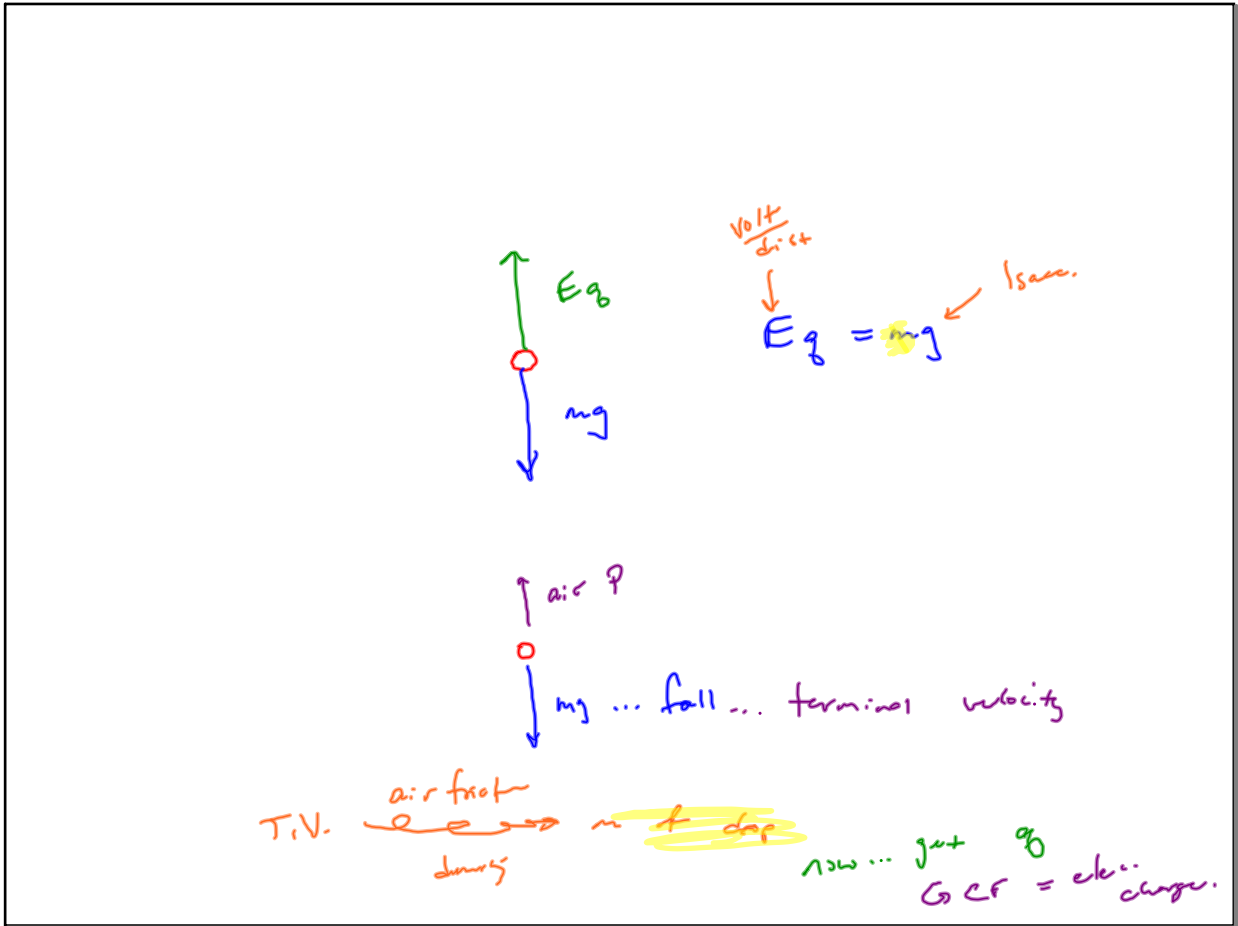
3g C : 1g H

Mult prop

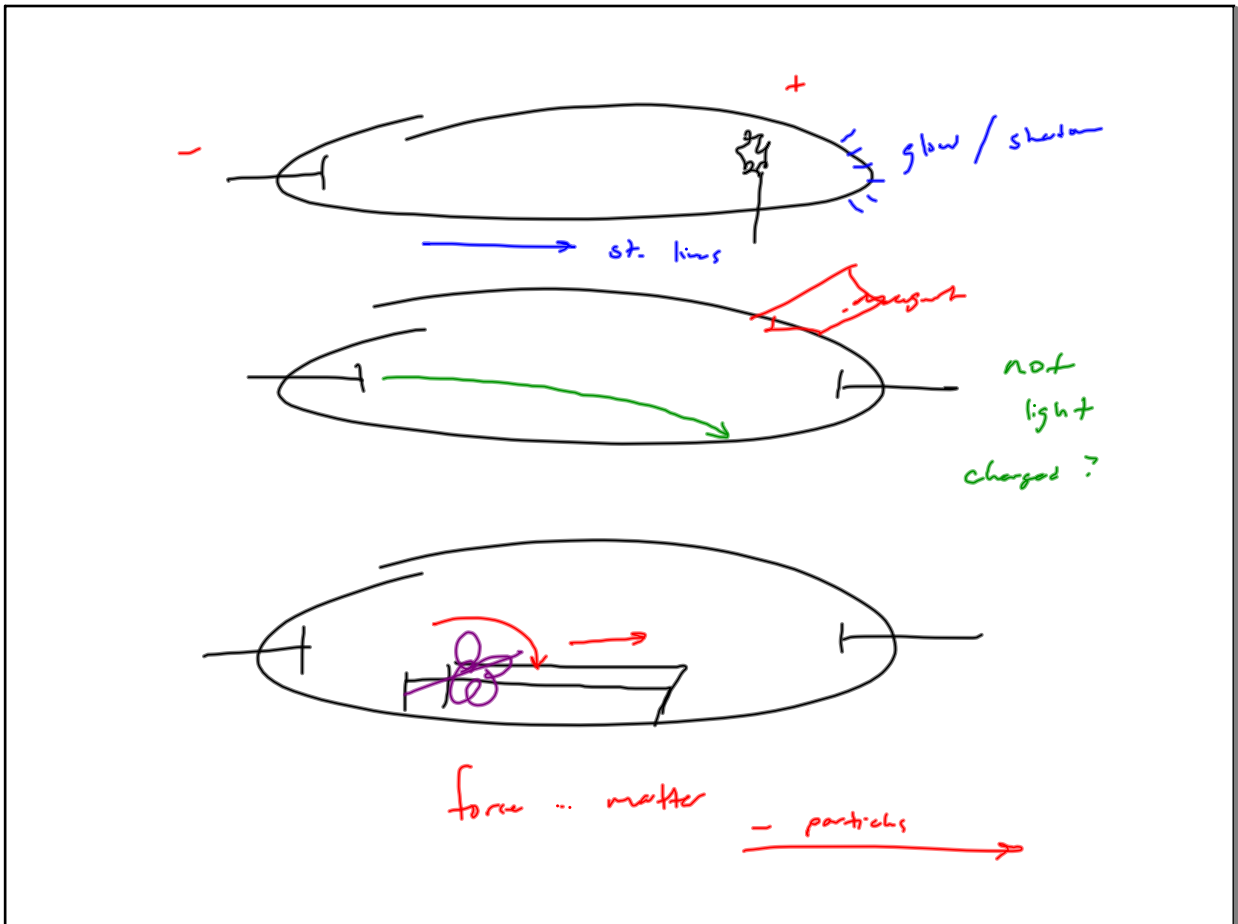
1g H : 3g C  $\rightarrow$  3:4  
 1g H : 4g C  $\rightarrow$  2:3  
 1g H : 6g C

1:2

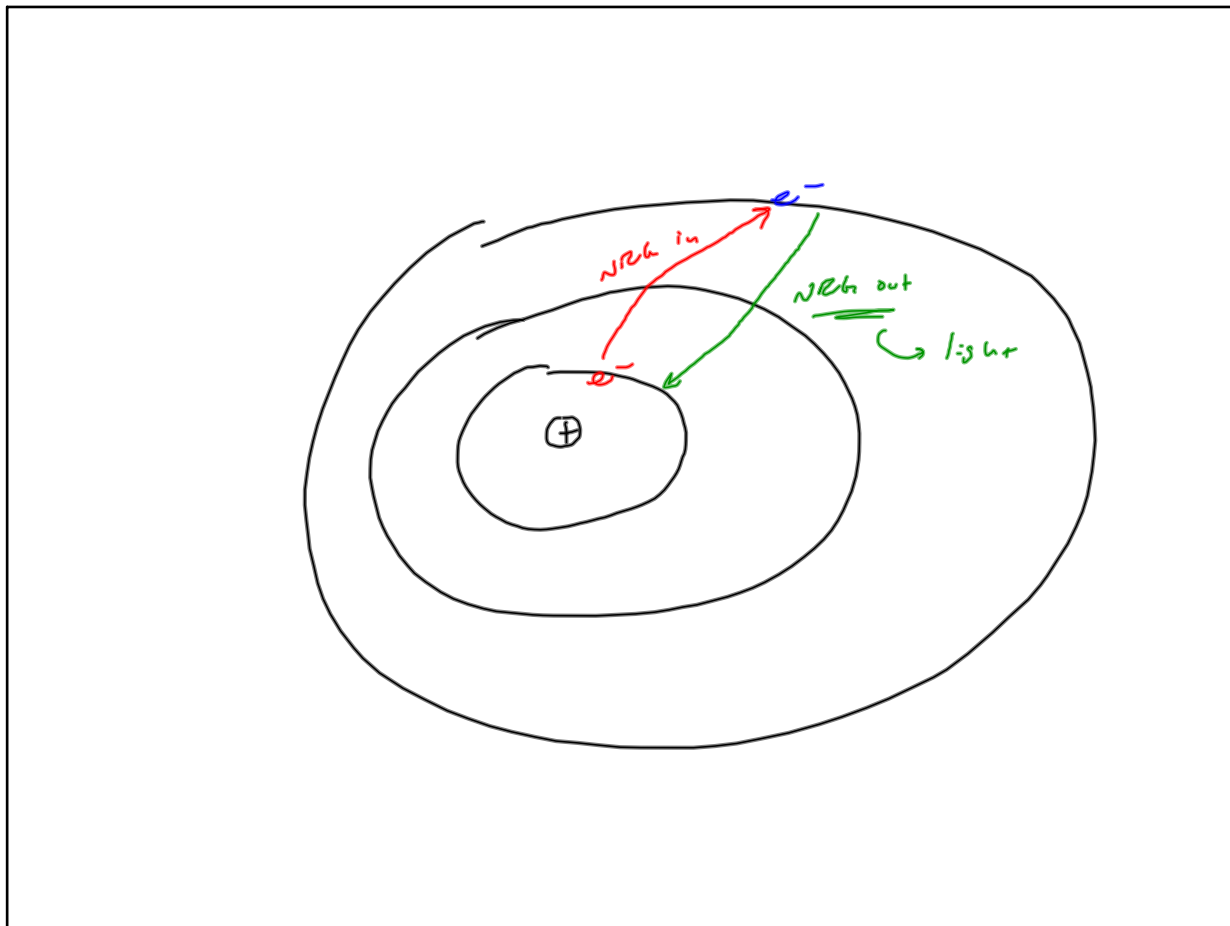
Oct 5-7:54 AM



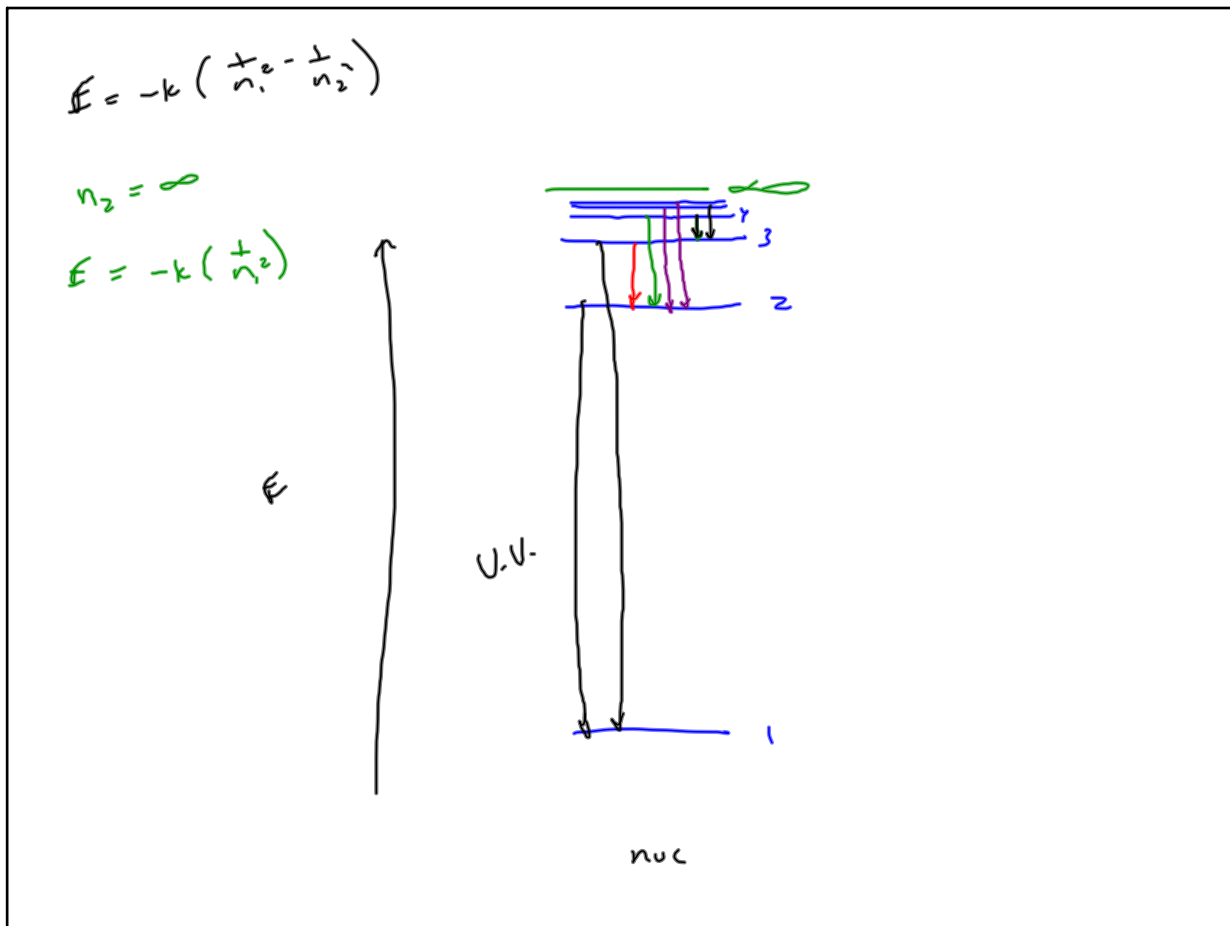
Oct 5-8:02 AM



Oct 5-8:15 AM



Oct 5-8:18 AM



Oct 5-8:22 AM