

## Lecture 10: Radioactive Decay

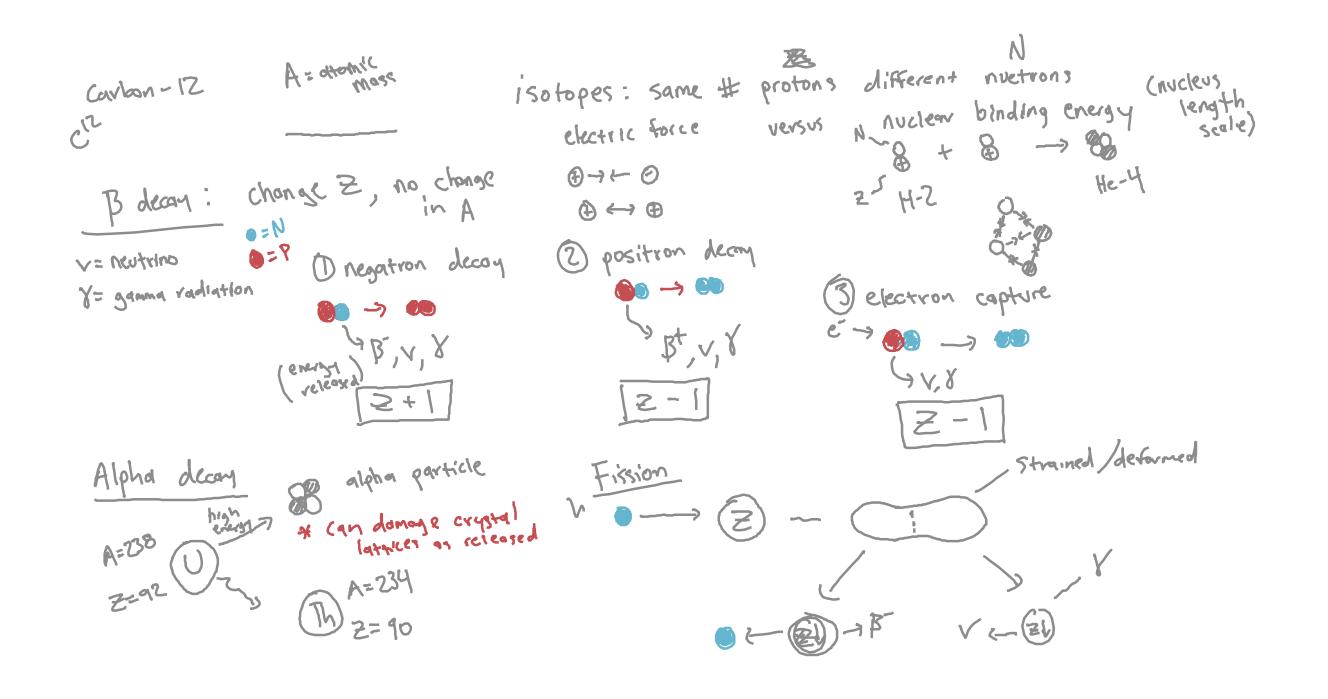
- 1. Mechanisms
- 2. The decay equation

We acknowledge and respect the  $l \ni k^w \ni j \ni n$  peoples on whose traditional territory the university stands and the Songhees, Esquimalt and  $W S \land N E$  peoples whose historical relationships with the land continue to this day.





## Mechanisms of radioactive decay.







## The decay equation.

Rutherford + Soddy 1902 
$$N=$$
 number of mokes of an isotope  $\frac{dN}{N}=\int -2dt$   $\ln x \ln dt$   $dx + 2dt$   $dx + 2dt$ 

## The decay equation.

