


Chap 21 Types of Radioactive Decay RATIO

New Klar → Become stable N:P

<p>Alpha Particle</p> <p>${}^4_2\text{He}$ nucleus.</p> <p>$Z_p + Z_n \rightarrow \alpha$</p>	<p>EGN</p> <p>${}^{226}_{88}\text{Rn} \rightarrow {}^4_2\text{He} + {}^{222}_{86}\text{Rn}$</p> <p>natural decay</p> <p>At mass ↓ 4</p> <p>At # ↓ 2</p>
<p>Beta Particle</p> <p>electron β^-</p> <p>${}^0_{-1}\text{e}$</p>	<p>${}^{131}_{53}\text{I} \rightarrow {}^0_{-1}\text{e}^- + {}^{131}_{54}\text{Xe}$</p> <p>mass no A</p> <p>At # ↑</p>
<p>Positron</p> <p>positron β^+</p> <p>${}^0_{+1}\text{e}$</p>	<p>${}^{11}_6\text{C} \rightarrow {}^0_{+1}\text{e}^+ + {}^{11}_5\text{B}$</p> <p>mass no A</p> <p>At # ↓ 1</p>
<p>Gamma Radiation.</p> <p>(HULK)</p> <p>Mr. Miller - "UK"</p> <p>γ</p>	<p>$\rightarrow \gamma +$</p> <p>No ↓ in Mass or At. #</p>

Apr 6-7:39 AM

RADIATION!



VERDE VERDE

- ① DJT and The Russians.
- ② cell phones.
- ③ SUN.
- ④ TV, Radio
- ⑤ R9 day → So, I, Brick.

Apr 6-8:06 AM

Hydrogen - isotopes

^1_1H	→	proton	hydrogen.
^2_1H		deuteron	deuterium
^3_1H		triton	tritium

Apr 6-8:12 AM

e^- capture
positron decay

$^1_1\text{H} + ^0_{-1}e \rightarrow ^1_0\text{n}$

(e^+) positron capture
 e^- decay

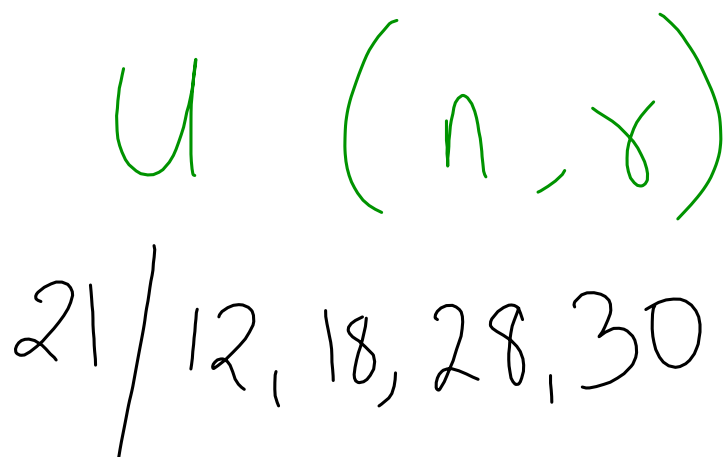
~~$^0_{-1}e + ^0_{+1}e \rightarrow 2^0_0\gamma$~~

A+Z ↓

A+Z ↑

Above belt
→

Apr 6-8:16 AM



Apr 6-8:27 AM