Nuclear - from nucleus.

Isotope - same #p (same element)

BUT different #n (At. Mass)

$^{12}_{6}C$ ^{14}C ← radioactive rating

May 18-9:26 AM

Radioactive → Decays - mass constantly changes. → UNSTABLE.

↳ spontaneously emitting energy (mass)

invisible

Pierre Curie
Marie Sandouski Curie
Henri Becquerel

Particles
Pure energy Rays
TABLE
no mass

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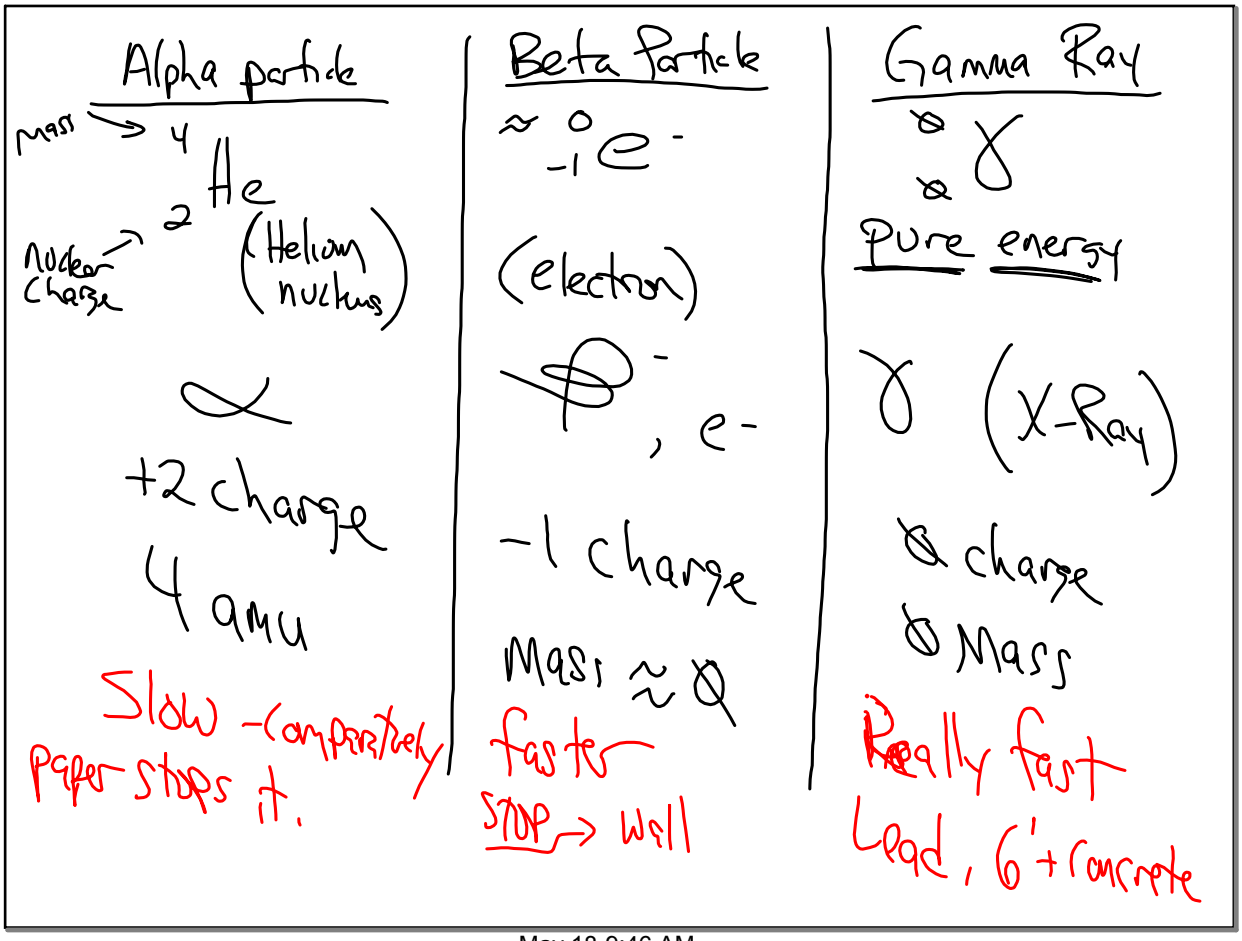
Alpha particle
mass → 4
2 He
nuclear charge →
(Helium nucleus)
α
+2 charge
4 amu
Slow - can't even paper stops it.
Beta Particle
≈ 0 -1 e-
(electron)
β-, e-
-1 charge
Mass ≈ 0
faster
STOP → Wall
Gamma Ray
0 γ
0
Pure energy
γ (X-Ray)
0 charge
0 Mass
Really fast
Lead, 6' + concrete

May 18-9:46 AM