

B: small, negative, formed from small nucle; EM A neutron becomer a proton and an electron A X -> A Y + e + Ve this is an anti-neutrino why this is produced by e.g: 14 C -> 14 N + e (+ ve) it is always 6 pretons 7 protons 8 neutrons 7 neutrons produced! y: high-energy EM wave, no charge or mass Releases energy with no change in the nuclei A X -> A X + &

Z X + &

too-much geod
energy X: Short-range radiation, only harmful inside the body B: medium-range radiation, more harmful outside body
8: long-range, very harmful outside the body. Contreach me unter dore 1 so range 80---

Naver: A= Amplitude

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A= navelength transverse waves . Travel at the speed of light [c= f] Microwaves IR Visible UV X-rays Gamma Rays radio high of low f gamma ray, AMMA If c= 3×108 ms and Max x = 5m, what is

f? f= 60,000,000 Hz

or 60MHz

This is large

=) radio For reference, red light is 1 1=800nm = 8×10 m