

Physics 1214 - General Physics II

Quiz #32 - 2013.05.01

Solutions

1. In addition to nuclear reactions obeying the conservation principles for electric charge, momentum, angular momentum and energy, there is another conservation law which nuclear reactions obey. What is it?

Another conservation law is the conservation of the total number of nucleons.

2. What makes a radiation source an ionizing radiation source?

As radioactive particles pass through matter, they lose energy to the surrounding material, causing molecular bonds to break and thus create ions.

3. What is the largest natural source of exposure to radiation for someone residing in the US?

Radon is the largest natural source of radiation in terms of exposure for someone in the US.