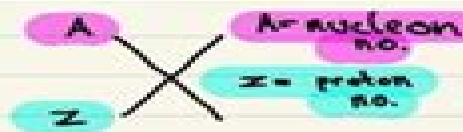


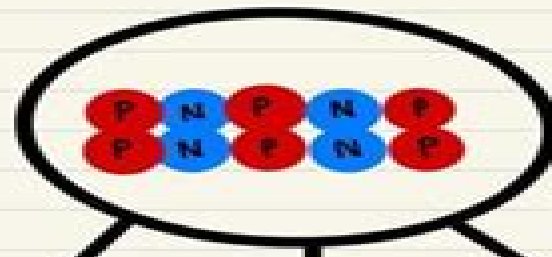
# Nuclear Physics



- The number of protons defines an element.
- In an isotope, the number of neutrons is different.
- This means that the nucleon number is different.

- Isotopes with an unbalanced no. of protons and neutrons are more likely to be unstable.

- All radiation is ionising.
- It can remove electrons from atoms (e.g. DNA)
- This causes mutation and can lead to cancer



Alpha ( $\alpha$ )



- Identical to Helium nucleus. (2P, 2N)
- Can be stopped by thin sheet of paper / few cm of air
- Very ionising, does most damage under skin.

Beta ( $\beta$ )



- Fast, high energy electron.
- Few mm of aluminium, 1m of air.
- Medium

Gamma ( $\gamma$ )



- High energy EM wave
- Several cm of lead or very thick concrete
- Low ionisation - easily passes through body

## Background Radiation

- Naturally occurring e.g. rocks, soil, space (62%)
- Artificial e.g. medical, nuclear power, food + drink & weapons testing.

# Nuclear Physics 11 Notes

**S Ben Porath**



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## Whispering the Secrets of Language: An Mental Journey through **Nuclear Physics 11 Notes**

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