

Atomic Structure

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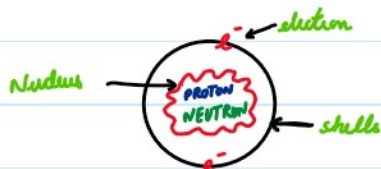


★ Contact: 0304-4767165

ZUBAIR KHAN - FLAREPREP
0304-4767165

→ ATOM

- Atom is the smallest possible particle to exist



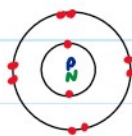
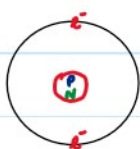
- Atom is made up of shells and a Nucleus
- shells have electrons orbiting it
- Nucleus has NEUTRON and PROTON
- Atom is mostly empty: there is only nucleus at center

→ Table

	Symbol	Charge (e)	Mass (u) ^{relative}
Proton	p	+1	1
Neutron	n	0	1
Electron	e	-1	-1/1840 or Negligible

→ ELECTRONIC CONFIGURATION

- The way electrons are spread across shells is called electronic configuration



If only 1 shell, then
max electrons can be 2

If more than 1 shell, then last
shell can store a max of 8 electrons

- 1st shell store a max of 2 electrons
- 2nd, 3rd, 4th ... shells store a max of 8 electrons