Ch 4

Ch 4 homework posted due Friday

Electrons do not orbit around nucleus in neat concentric circles

Schrödinger introduced Schrödinger Equation

complex equation defines behavior of electrons

Orbitals 3-dimensional volume where you're likely to find an electron

a sphere actually a cloud of fog
dense in center thin as you go farther out

an s orbital is spherical in shape

1s as 'n' increases, orbital size increases

2s

3s

a p orbital is dumbbell-shaped
also d orbitals & f orbitals
$\rightarrow$ complex shape

clover-shaped

Bohr diagram

Schrödinger orbital diagram

C: $1s^2\ 2s^2\ 2p^2$

Don't need any calculations
in Chapter 4