

How many dimensions in a ψ^2 graph?

just 1...r

s orbital
 $l=0$

arbitrary edge

Oct 7-6:59 AM

Orbital types - dictated by l (number of angular nodes)

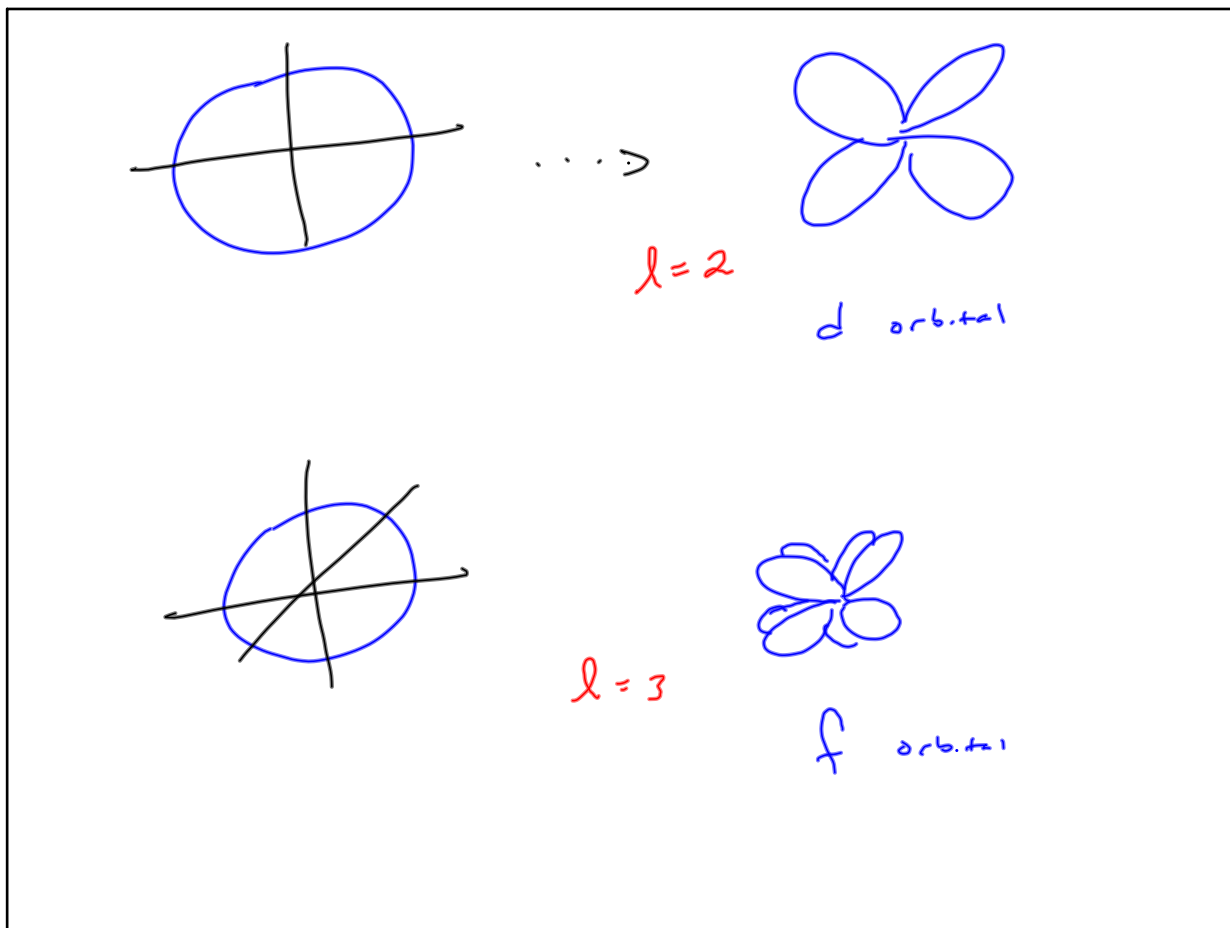
depends on ϕ
 90° to x axis
 (yz plane)

$l=1$

p orbital

ϕ node

Oct 14-9:42 AM



Oct 15-9:52 AM

How are different energy level orbitals different?
 $n \rightarrow$ total number of nodes $n-1 = \# \text{ nodes}$

1s
0 nodes

radial or spherical node

2s
 $2-1 = 1 \text{ node}$
(no $\&$ node)
 $l=0$

Oct 14-9:45 AM