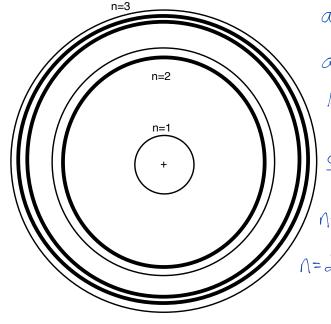


n= principle energy level 2n2=total # of e allowed a that energy level

$$n=1$$
 : 2 = $\frac{\text{Value of } n}{n=2}$: 8 = $n=0$ to ∞

With a better electroscope ...

Each spectral line was made up of several lines. Each energy level was



actually divided into sublevels accor

according to their principle energy

Subjected Subjected
$$l = 0 + 6 - 1$$

$$|l = 0 + 6 - 1|$$

$$N=1$$
 is $l=1$

$$N=2$$
 : $l=2$ $l_1=0$; $l_2=1$

When using a Magnetic field each line separated

$$M_{\ell} = -\ell + 0 + \ell$$

$$f = \ell + \ell + \ell + \ell$$

$$f = \ell + \ell + \ell + \ell$$

$$f = \ell + \ell + \ell + \ell$$

When analyzing magnets + magnetism it was explained using election spin. Shooting a beam of elections through a magnetic field poduced two beams. Additional spectral line analysis in magnetic fields supported the need for a fourth quantum number.