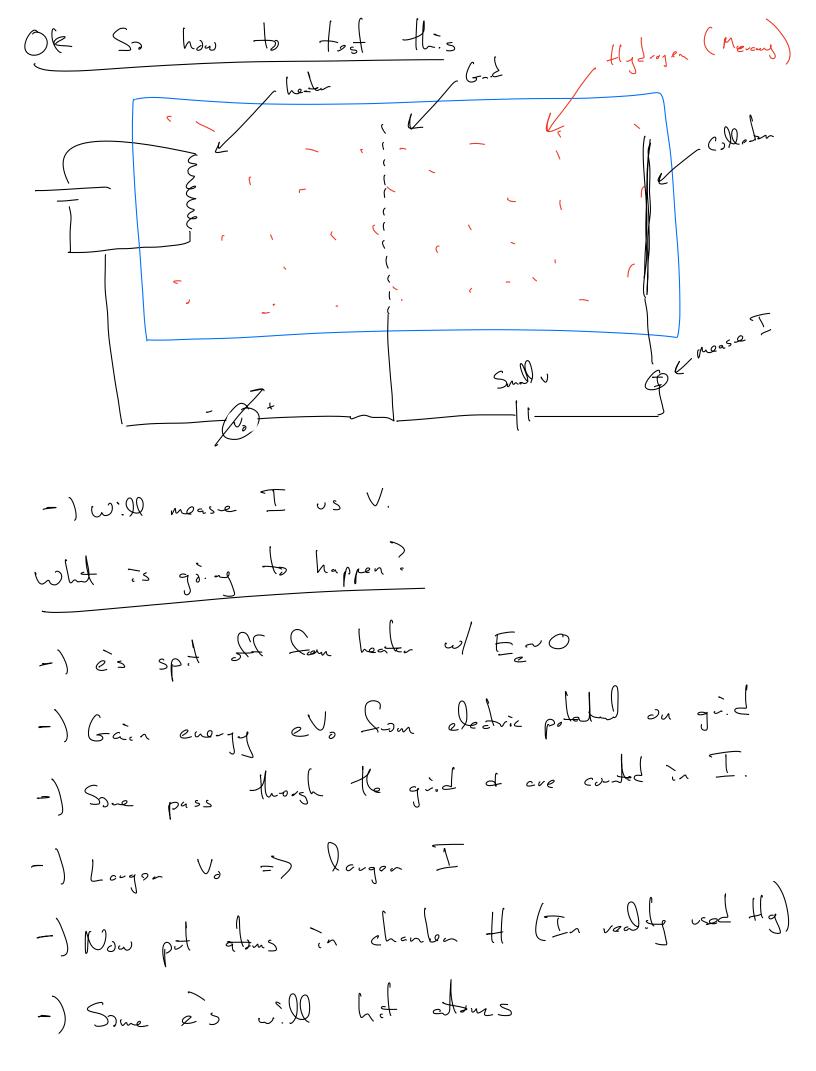
Last time talled about Bohis mold for atm - Assumed Stalle orbits (Quadriced on En) - Cuezy Bot vapodices data. - Ad hic. No Sint Principle.

Todal - The about some Lind evidence for Qualizing of Energy leads - Use Boho model to understand X-rays / Nuclear Change. Frenk-Heatz Expant - Can we dinally probe the Ordinal Everyy levels
using snoethy other than light. Yes! Short es w/ vany Ee and soe of Scattery in 1-electic -inoletic P | n=1 | n=2 e_I Incoming ex can only give E to ex if it is enough to excite ex to n=2 orbit $E_{min} = E_{o}(\frac{1}{1^{2}} - \frac{1}{2^{2}}) = 13.6 ev(\frac{3}{4}) = 10.2 eV$

if $E_e \ \angle E_{min}$ Hen the scattering must be elastic in \mathbb{Z}_{E} .



-) only lose E - E = eV > 10 eV -) Is lose of E

in soften early

got p AV.

-) Const Lops.

I lose of E

in soften early

got p AV.

-) Const Lops. Not only the ... Now expet to see a light sign - No light when eVo < 10.2 - stil soig light as soon as correct dops $\omega = \frac{E_2 - F_1}{h}$ (this also soon) Verg Campally! (Other Atms Discuss)

| More Complicated Alsons |
|---|
| = Apply Bohn's mill to nove complicated whis |
| - Earpt in linds where can ignore oth es |
| - Apply of to inner es |
| Tower es only "soe" control chaye Ze Myle Bih- Ok. |

How could you this? at an atom = Shoot high everyy e (KeU) - Occasion III ejost an n=1 electron
in the down - An electron in histor only ill CD in t enit light - Bhn Seys: $E_{n} = -E_{0} \frac{1}{n^{2}}$

Dick on elect + Pt in some #s. Tuns of $E_{\delta} = \frac{hc}{\lambda} =$ $\forall s$ are χ -regs. Explains le disonte strute sour in

One of the most understal Plats in Physics (House Mosaley) Adrice - nder. - Une-pland Littures V = (Mordag plotted the II us o-do- in list sold Strengt line! 7216 2 ~ A [[

-Bilis Mild cold le essel to mecca Z Lum X-rys Spice that juit gas of +1 for I alitz

in list gins the debut chape of rule Call now know I needer change by lasky at a sould list! Ford "gaps" were elevets use missig. Subsorcelly Sund al predicted X-ray sporten.

Even me imposite

Cold now understed that the purtical soft of alerts fund on eath in got some random socially diverse mener of alants, but compises all the alerts that cold possible exist. I

$$C'^{2} = A_{m}(2-6)$$

$$f = \frac{1}{h} z^{2} \left(1 - \frac{1}{m^{2}} \right) \frac{m \rightarrow 1}{m}$$

$$\frac{M \rightarrow 1}{2}$$

$$= \int_{3} \left(2 - N_{\text{Super}}\right)^{2} \left(1 - \frac{1}{n^{2}}\right)$$

$$= \sum_{i} \left(\sum_{j=1}^{n} \left(\frac{1}{n_{i}} \right) \left(\frac{1}{2} - N_{\text{Se-con}} \right)^{2} \right)$$

$$\sum_{n=1}^{\infty} \sum_{n=1}^{\infty} \mathcal{N}_{Som} = 1$$

noliple inner es

Mosler clevel prodie telle. = Bolie place délevaded de mass. => Sne 'D, ps" Ar = 39.9 2=18 2 = 19 $K_{1} = 37.0$ - Orderig by Z romand D Hre

ansordoes (Ar is used gas le not!)