My name is Mike Gentile. (yai can call me "Mike") Mgentile Ophysics. rutgers. edu Physics 194 - Lecture 23 MC

Have a question during class? Please ask it right away, even if it means interrupting in the middle of a thought. I want you to!

Class

<u>starts</u>

@2:15 pm

Agenda

- The wave model of matter
- the Bohr model of the hydrogen atom

- Emission + absorption processes







Davisson-Germer expt.
Electrons have a wavelength and
t depends a speed.

$$F_{photon} = hf$$

 $F_{photon} = hf$
 F_{photon}



Particle Part

$$a = \frac{1}{M_e} \sum F_{me} = \frac{1}{1.6 \times 10^{-19} \text{ C}}$$

$$\left(\sum_{k=1}^{\infty} \frac{1}{m_e} - \frac{1}{m_e} \left(k \frac{1 - e | 1 + e |}{m_e^2} \right) - \frac{1}{m_e} - \frac{1}{m_e} \left(k \frac{1 - e | 1 + e |}{m_e^2} \right) - \frac{1}{m_e} - \frac{1}{m_e$$

(S.ZTRIOM) n TI, 2, 3, - guantin number



