Photocurant ! Voltage T >> photocorrent i'me. Now. 1 >> T 1 >> (onst) con & that current i'c called Saturation Photocurrent Th Voltage 1 > photo current 1 that, Voltage is called Stopping potential e Vo = Knan Vo = Kman => E = Vo No depends on (1) Ø Jano= he

Duel Habure of Radiation & sonatter! > mass of Photon cannot be defined. There was to sero. , energy of each photon: (E= hc = ht) (E= 1240 ev-nm) > momentum 1. h= 6.626 × 10-39 TR All photons have same energy & Same speed in all frame Vil photon = c = 3×108 m/s - photoelectoric effect! when light of low wavelengt orkhigh frequency incident on metal surface; e on ejected from metal surface. The collision of a photon with a po material particle is assumed as perfectly clastic collism P:=P; K.E; = K.C; (P) if Intensity of light of given wevelength i's increased then no. of photon will increase but energy of each photon is still same. E=hc

mork function! - Min. energy required to remove a surface el is called work! function!

Duel Mature of Kadiation & mattermass of Photon cannot be defined. There was to mass of Photon called quanta. I's equal to zero. - energy of each photon: E= DC = hf (1, 10 m) - momentum! N=6.656×10-301K All photons have some energy & Some speed in all frame. Nel broton = c = 3×108 m/2 or Photoelectoric effect! when light of low wandleyst or high frequency incident on metal surface, en are ejected from wetal surface. The collision of a photon with a po material particle is assumed as perfectly clastic collism Pi=Pi K.Ei= K.Ci (1) if Intensity of light of given wevelength