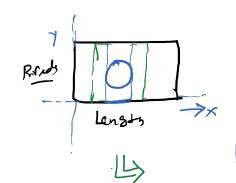
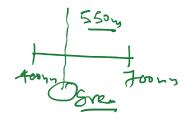
## Guantum Confinement Thursday, April 8, 2021 1:29 PM

## Very Crude anlong



Ball Can more in x as well an iny direction



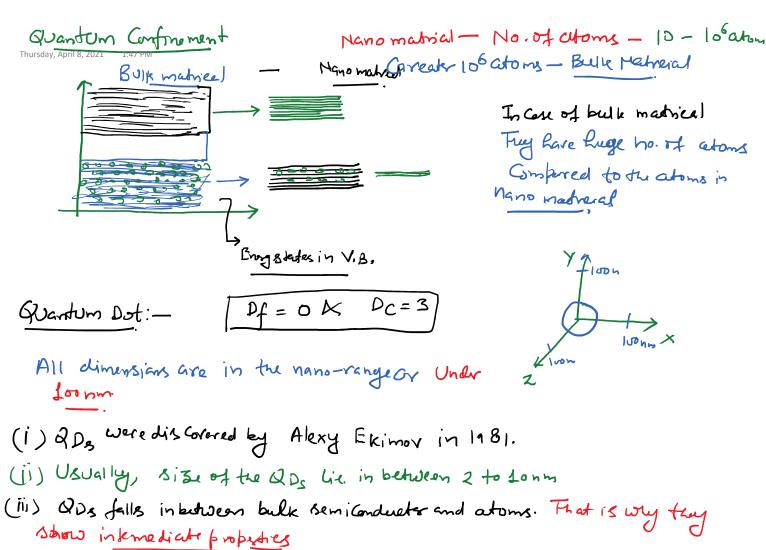
Statement - If you are decreasing the size of hanoparticles

than Energy sup increases (Semiconductor)

E C.B 563-

Valence Electron





- (iv) Energ gap & I SIZIOD
- (V) QDs gives bety Contrast with Electron microscope
- (Vi) QD Emits the wavelength which is falling between UV KCR

Length Can vary from loom to tens of

Microns.

Nanowire is a nanostructure having the diameter of the order of a

hanometr

NP - Find the maximum Energy of photoelectron, the work function and threshold frequency, if the pottersions swrface is illuminated by a light of whelength 5893 Ao. The stopping Pokential for the Emilled C is 0.36 eV

Kinetic Energy of e's

$$E_{K} = eV = RV - \phi_{0}$$

$$\Rightarrow E_{K} = 0.3 (eV)$$

$$= \frac{RC}{A} - eV$$

$$= \frac{RC}{A} - eV$$

$$\Rightarrow V_{0} = \frac{RC}{A} - eV$$