electron energy and light pdf

The electron is a subatomic particle, symbol e â�’ or Î² â�’, whose electric charge is negative one elementary charge. Electrons belong to the first generation of the lepton particle family, and are generally thought to be elementary particles because they have no known components or substructure. The electron has a mass that is approximately 1/1836 that of the proton.

Electron - Wikipedia

The energy E, frequency ν, and wavelength Î» of a photon are related by = = = (Ã— â�’) where h is the Planck constant, c is the speed of light.This reduces to = â‹… = . A photon with a wavelength of 532 nm (green light) would have an energy of approximately 2.33 eV.Similarly, 1 eV would correspond to an infrared photon of wavelength 1240 nm or frequency 241.8 THz.

Electronvolt - Wikipedia

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