

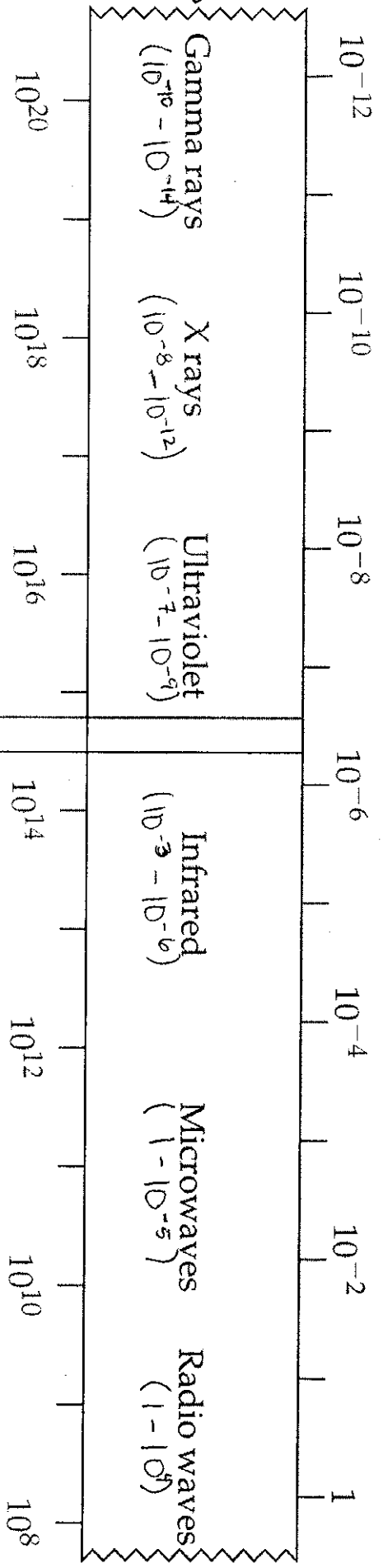
shorter wavelength  
higher frequency  
higher energy

longer wavelength  
lower frequency  
lower energy



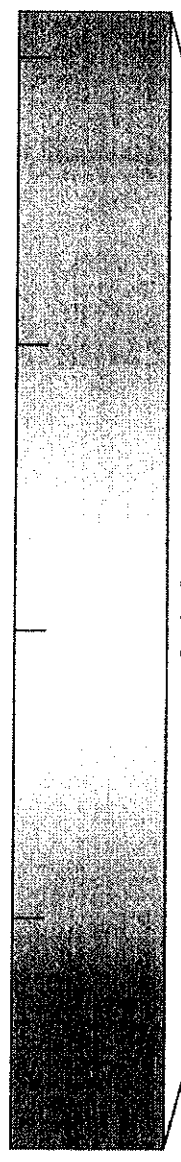
Wavelength ( $\lambda$ )

in meters




Frequency ( $\nu$ )  
in hertz

Visible




380 nm	500 nm	600 nm	700 nm	780 nm
$3.8 \times 10^{-7}$ m				$7.8 \times 10^{-7}$ m
Violet	Indigo	Blue	Yellow	Orange
				Red


Atomic Nuclei  
 $10^{-10}$



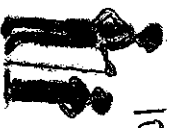
Protozoans  
 $10^{-5}$




Pinhead  
 $10^{-3}$



Humans  
 $10^2$



Atoms  
 $10^{-8}$




Buildings  
 $10^4$




Honey Bee  
 $10$




Molecules  
 $10^{-7}$



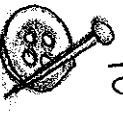
Atomic Nuclei  
 $10^{-10}$



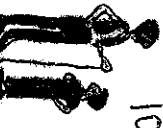
Protozoans  
 $10^{-5}$



Pinhead  
 $10^{-3}$



Humans  
 $10^2$



Atoms  
 $10^{-8}$




Buildings  
 $10^4$



Honey Bee  
 $10$



Molecules  
 $10^{-7}$



Honey Bee