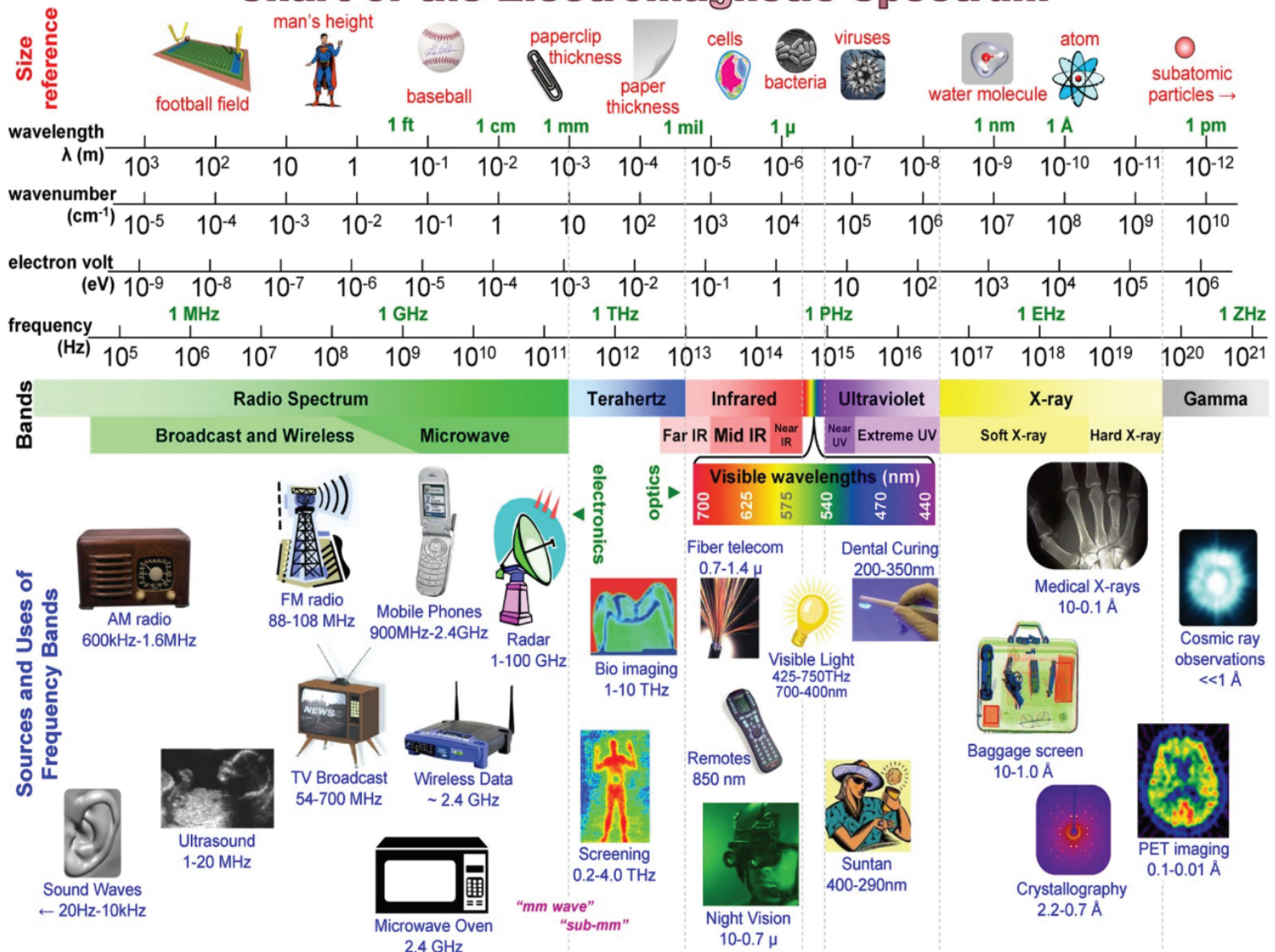


Chart of the Electromagnetic Spectrum



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$$\lambda = 3 \times 10^8 / \text{freq} = 1 / (\text{wn} \times 100) = 1.24 \times 10^{-6} / \text{eV}$$

SURA Southeastern Universities Research Association

LAINEMADUSED
KIIRGAJA MÖÖTMED

KIIRGAJA: VAHELDUV-
VOOLUSEADMED

RAADIOANTENN
AATOMITE
VÕNKUMINE
&
PÕRLEMINE

OPTILINE KIIRGUS

AATOMI
SISEKIHT

GAMMA-
KIIRGUS

KOSMILINE
GAMMAKIIRGUS

Elektromagnetlainete skaala.

VÖRGUSAGEDUS

50 Hz

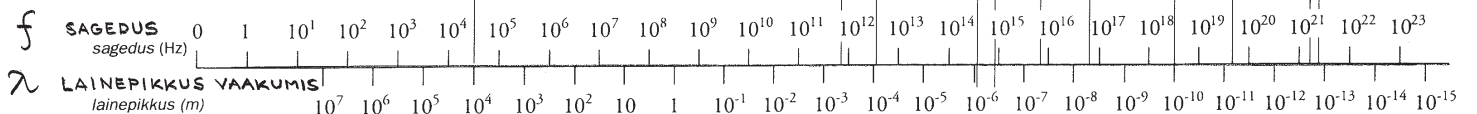
MADALSAGEDUSLAINED

RAADIOLAINED

INFRA-
VALGUS

ULTRA-
VALGUS

RÖNTGENIKIIRGUS



SPEKTROSKOOPILINE LAINEARV $k' = \frac{1}{\lambda} (\text{cm}^{-1})$

hf kvandi ENERGIA (eV)

$h\nu$ või $h\nu$ meV

ELEKTRONI SEISUENERGIA $m_e c^2$

1 Ry = 13,6 eV