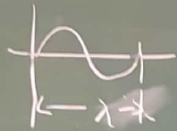


Photoeffekt

Farbe	λ in nm	f in 10^{14} Hz	U in V W in eV
rot	676	4,438	0,514
grün	534	5,618	0,872
blau	414	7,246	1,283



$c = \text{geschw. } c = 3 \cdot 10^8 \frac{\text{m}}{\text{s}}$

allgemein
Geschw. $v = \frac{s}{t}$ $c = \frac{\lambda}{T} = \lambda \cdot \frac{1}{T}$

$T = \text{Periodendauer} \quad f = \frac{1}{T}$

$\Rightarrow c = \lambda \cdot f \quad | : \lambda$

$f = \frac{c}{\lambda}$

rot: $c = 3 \cdot 10^8 \frac{\text{m}}{\text{s}} \quad \lambda = 676 \cdot 10^{-9} \text{ m}$

$f = \frac{3 \cdot 10^8}{676 \cdot 10^{-9}} \text{ Hz}$

