

physical quantity (SI base units in blue) (radiation physics units)	Deutsch	Symbol	SI unit	Simplified Formula to help with units	in other SI units	typical units in radiation physics	conversions
Length	Länge	$\ell$	meter = m				
time	Zeit	t	second = s				
velocity	Geschwindigkeit	v	m/s			c=~3E8 m/ s	
acceleration	Beschleunigung	a	m/s <sup>2</sup>				
mass	Masse	m	kilogram = kg			1eV/c <sup>2</sup>	1eV/c <sup>2</sup> = 1.78E-36 kg
momentum	Impuls	p	kg*m/s	p=mv			
force	Kraft	F	Newton = N	F = ma	1N = kg*m/s <sup>2</sup>		
torque	Drehmoment	$\tau$	N*m	$\tau = rF \sin\theta$	kg*m <sup>2</sup> /s <sup>2</sup>		
energy, work	Energie, Arbeit	E, W	Joule = J	W = Fx	1J = kg*m <sup>2</sup> /s <sup>2</sup>	1eV	1eV = 1.602E-19J
power	Leistung	P	Watt = W	P = E/t	1W = kg*m <sup>2</sup> /s		
pressure	Druck	P	Pascal = Pa	P = F/area	1Pa=1N/m <sup>2</sup>		
Electrical charge	Elektrische Ladung	q	Coulomb = C			e = electron charge	1e = 1.602E-19C
Electrical current	Stromstärke	I	Ampere = Amp = A	I = q/t	1A=1C/s		
Electric potential	Elektrische Spannung	V or $\phi$	Volt = V	Power = IV	1V = 1W/A		
Electric field	Elektrisches Feld	E	N/C = V/m				
Magnetic field	Magnetische Flussdichte	B	Tesla = T	F=BI $\ell$	1T=1N/(A*m)		
Resistance	Elektrischer Widerstand	R	Ohms = $\Omega$	V = IR	1 $\Omega$ = 1V/A		
Capacitance	Elektrische Kapazität	C	Farad = F	C=q/V	1F = 1C/V		
Temperature	Temperatur	T	Kelvin = K				
amount of substance	Stoffmenge	N	Mol				
luminous intensity	Lichtstärke	$I_v$	Candela = cd				
radioactivity	Radioaktivität	$A_{Bq}$	Becquerel = Bq		1/s		
Absorbed dose	Energiedosis	D <sub>T</sub>	Gray = Gy		$m^2/s^2 = J/kg$		
Equivalent dose	Äquivalentdosis	H <sub>T</sub>	Sievert = Sv		$m^2/s^2 = J/kg$		