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Values of fundamental constants

Quantity	Symbol	Value and units
Speed of light	c	$2.998 \times 10^8 \text{ m s}^{-1}$
Planck's constant	h	$6.626 \times 10^{-34} \text{ J s}$
	$\hbar = h/2\pi$	$1.055 \times 10^{-34} \text{ J s}$
Mass of electron	m_e	$9.109 \times 10^{-31} \text{ kg}$
Mass of proton	m_p	$1.673 \times 10^{-27} \text{ kg}$
Atomic mass unit	u	$1.661 \times 10^{-27} \text{ kg}$
Elementary charge	e	$1.602 \times 10^{-19} \text{ C}$
Vacuum permittivity	ϵ_0	$8.854 \times 10^{-12} \text{ J C}^2 \text{ m}^{-1}$
	$4\pi\epsilon_0$	$1.113 \times 10^{-10} \text{ J C}^2 \text{ m}^{-1}$
Avogadro constant	N_A	$6.022 \times 10^{23} \text{ mol}^{-1}$