

Fundamentalne konstante

Brzina svetlosti u vakuumu	c	=	$2,998 \times 10^8 \text{ m s}^{-1}$
Plankova konstanta	h	=	$6,626 \times 10^{-34} \text{ J s}$
Bolcmanova konstanta	k_B	=	$1,381 \times 10^{-23} \text{ J K}^{-1}$
Štefan-Bolcmanova konstanta	σ	=	$5,670 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$
Naelektrisanje elektrona	e	=	$1,602 \times 10^{-19} \text{ C}$
Univerzalna gravitaciona konstanta	G	=	$6,674 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$
Univerzalna gasna konstanta	R	=	$8,315 \text{ J mol}^{-1} \text{ K}^{-1}$
Avogadrov broj	N_A	=	$6,022 \times 10^{23} \text{ mol}^{-1}$
Vinov zakon pomeranja, konstanta b	$\lambda_m T$	=	$2,898 \times 10^{-3} \text{ m K}$
Masa elektrona	m_e	=	$9,109 \times 10^{-31} \text{ kg}$
Masa protona	m_p	=	$1,673 \times 10^{-27} \text{ kg}$
Masa neutrona	m_n	=	$1,675 \times 10^{-27} \text{ kg}$
Atomska jedinica mase (a.j.m.)	u	=	$1,661 \times 10^{-27} \text{ kg}$

Astronomske veličine

1 parsek (pc)		=	$3,086 \times 10^{16} \text{ m}$
1 astronomska jedinica (aj)	a_{\oplus}	=	$1,496 \times 10^{11} \text{ m}$
Masa Sunca	M_{\odot}	=	$1,989 \times 10^{30} \text{ kg}$
Poluprečnik Sunca	R_{\odot}	=	$6,955 \times 10^8 \text{ m}$
Luminoznost Sunca	L_{\odot}	=	$3,826 \times 10^{26} \text{ W}$
Prividna zvezdana veličina Sunca u podne	m_{\odot}	=	$-26,72$
Solarna konstanta (na Zemlji)		=	1366 W m^{-2}
Prividni ugaoni prečnik Sunca	θ_{\odot}	=	$30'$
Masa Zemlje	M_{\oplus}	=	$5,972 \times 10^{24} \text{ kg}$
Poluprečnik Zemlje	R_{\oplus}	=	$6,371 \times 10^6 \text{ m}$
1 tropska godina		=	$365,242 \text{ sunčevih dana}$
		=	$3,156 \times 10^7 \text{ s}$
Masa Jupitera	M_J	=	$1,898 \times 10^{27} \text{ kg}$
Poluprečnik Jupiterove orbite	R_J	=	$5,203 \text{ aj}$