

cgs		SI	(eVc)	单位换算
真空光速	$c = 2.998 \times 10^{10} \text{ cm s}^{-1}$	$2.998 \times 10^8 \text{ m s}^{-1}$	1 c	$N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$
引力常数	$G = 6.674 \times 10^{-8} \text{ cm}^3 \text{ g}^{-1} \text{ s}^{-2}$	$6.674 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$		1 rad = 206265 arcsec = 3438 arcmin = 57.30°
单位原子质量	$m_u = 1.661 \times 10^{-24} \text{ g}$	$1.661 \times 10^{-27} \text{ kg}$	931.5 MeV/c ²	1 yr = 3.156 × 10 ⁷ s
电子质量	$m_e = 9.109 \times 10^{-28} \text{ g}$	$9.109 \times 10^{-31} \text{ kg}$	511.0 keV/c ²	1 au = 1.496 × 10 ¹³ cm = 215 R _☉
元电荷	$e = 4.803 \times 10^{-10} \text{ g}^{1/2} \text{ cm}^{3/2} \text{ s}^{-1}$	$1.602 \times 10^{-19} \text{ C}$	1 e	1 ly = 9.461 × 10 ¹⁷ cm = 63240 au
普朗克常数	$h = 6.626 \times 10^{-27} \text{ erg s}$	$6.626 \times 10^{-34} \text{ J s}$	$4.136 \times 10^{-15} \text{ eV s}$	1 pc = 3.086 × 10 ¹⁸ cm = 206265 au = 3.262 ly
	$\hbar = 1.055 \times 10^{-27} \text{ erg s}$	$1.055 \times 10^{-34} \text{ J s}$	$6.582 \times 10^{-16} \text{ eV s}$	1 kpc = 3.086 × 10 ²¹ cm
玻尔兹曼常数	$k_B = 1.381 \times 10^{-16} \text{ erg K}^{-1}$	$1.381 \times 10^{-23} \text{ J K}^{-1}$	$8.617 \times 10^{-5} \text{ eV K}^{-1}$	1 M _☉ = 1047 M _J , 1 M _J = 318 M _⊕
维恩常数	$b = 2.897 \times 10^{-1} \text{ cm K}$	$2.897 \times 10^{-3} \text{ m K}$		1 R _☉ = 9.73 R _J , 1 R _J = 11.2 R _⊕
斯特藩常数	$\sigma = 5.670 \times 10^{-5} \text{ erg cm}^{-2} \text{ s}^{-1} \text{ K}^{-4}$	$5.670 \times 10^{-8} \text{ J m}^{-2} \text{ s}^{-1} \text{ K}^{-4}$		1 erg = 10 ⁻⁷ J
黑体辐射常数	$a = \frac{4}{c}\sigma = 7.565 \times 10^{-15} \text{ erg cm}^{-3} \text{ K}^{-4}$	$7.565 \times 10^{-16} \text{ J m}^{-3} \text{ K}^{-4}$		1 dyn = 10 ⁻⁵ N
太阳半径	$R_{\odot} = 6.957 \times 10^{10} \text{ cm}$	$6.957 \times 10^8 \text{ m}$		1 Gs = 10 ⁻⁴ T
太阳质量	$M_{\odot} = 1.989 \times 10^{33} \text{ g}$	$1.989 \times 10^{30} \text{ kg}$		1 barn = 10 ⁻²⁴ cm ² = 10 ⁻²⁸ m ²
太阳光度	$L_{\odot} = 3.828 \times 10^{33} \text{ erg s}^{-1}$	$3.828 \times 10^{26} \text{ W}$		
太阳有效温度	$T_{\odot\text{eff}} = 5778 \text{ K}$	5778 K		
地球平均半径	$R_{\oplus} = 6.371 \times 10^8 \text{ cm}$	$6.371 \times 10^6 \text{ m}$		
地球质量	$M_{\oplus} = 5.972 \times 10^{27} \text{ g}$	$5.972 \times 10^{24} \text{ kg}$		