

Physical Constants [cgs/atomic unit preferred mostly]							Note
\hbar	\hbar	6.6e-16	eV sec	6.586E-16	eV sec	1.055E-27	erg sec
$\hbar c$	$\hbar c$	2.0e-5	eV cm	1.973E-05	eV cm	1973	eV Å
c		3.0e10	cm/sec			2.998E+10	cm/sec
k_B		0.086	meV/K	8.6171E-05	eV/K	1.3802E-16	erg/K
m_e		0.51	MeV/c ²	0.511	MeV/c ²	9.110E-28	g
m_p		940	MeV/c ²	938.3	MeV/c ²	1.673E-24	g
e						4.803E-10	esu
$e^2/(\hbar c)$	$e^2/\hbar c$	1/137		1/137.0			fine structure const.
$h/(2e^2)$		13	kΩ	12.906	kΩ		SI unit!
μ_B		6e-9	eV/gauss	5.789E-09	eV/gauss	9.274E-21	erg/gauss $e\hbar/(2m_e c)$
μ_N		3.2e-12	eV/gauss	3.153E-12	eV/gauss	5.051E-24	erg/gauss $e\hbar/(2m_p c)$
a_B		0.53	Å	0.5292	Å	5.292E-09	cm $\hbar^2/(m_e e^2)$
λ_e		3.9e-3	Å	3.862E-03	Å	3.862E-11	cm $\hbar/(m_e c)$
λ_p		0.21	fm	0.2103	fm	2.103E-14	cm $\hbar/(m_p c)$
N_0		6.0e23		6.02252E+23			
Conversion Factors, etc.							
Rydberg		13.6	eV	13.60569193	eV		$e^2/(2a_B)$
THz		4.1	meV	4.138	meV		v
PetaHz		4.1	eV	4.138	eV		v
eV		0.24	femtosec	0.2417	femtosec		T
cm ⁻¹		0.12398	meV	1.2398E-04	eV		1/λ
Å ⁻¹		12398	eV				E(eV)=12398/λ(Å)
Visible light		0.4 - 0.7	μm	3.1 - 1.8	eV		
(Ωcm) ⁻¹ (SI)		9e11	Hz (cgs)	9.E+11	Hz (cgs)		
eV		1.6e-12	erg	1.602E-12	erg	1.602E-12	emu
erg		6.2e11	eV	6.242E+11	eV		
cal		2.6e19	eV	2.612E+19	eV	4.184E+07	erg
atm		15	psi	14.697	psi	1033.2	gm/cm ²
Room temp		300	K	26	meV		
IMPORTANT	The above tables generally prefer cgs definitions and units.						
	Kittel's ISSP or Jackson's E&M are good refs for unit conversions.						