Physical Constants [cgs/atomic unit preferred mostly]							Note
$\hbar$	**6.6e-16**	**eV sec**	6.586E-16	eV sec	1.055E-27	erg sec	
$\hbar c$	**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	
$e^2/(\hbar c)$	**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	$e\hbar/(2m_ec)$
μ_N	**3.2e-12**	**eV/gauss**	3.153E-12	eV/gauss	5.051E-24	erg/gauss	$e\hbar/(2m_pc)$
a_B	**0.53**	**Å**	0.5292	Å	5.292E-09	cm	$\hbar^2/(m_ee^2)$
λ_e	**3.9e-3**	**Å**	3.862E-03	Å	3.862E-11	cm	$\hbar/(m_ec)$
λ_p	**0.21**	**fm**	0.2103	fm	2.103E-14	cm	$\hbar/(m_pc)$
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			ν
PetaHz	**4.1**	**eV**	4.138	eV			ν
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**			
$(\Omega cm)^{-1}$ (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.						