$\hbox{ Table $\underline{1}$: Fundamental Physical Constants (2006 CODATA recommended values $[2]$)}$

e 1: Fundamental Physical Constants (2006 CODATA recommended value			
c	$2.997 924 58 \times 10^8 \text{ m/s (exact)}$		
μ_0	$4\pi \times 10^{-7} \text{ N/A}^2 \text{ (exact)}$		
ϵ_0	$(\mu_0 c^2)^{-1}$ (exact)		
	$= 8.854 \ 187 \ 817 \dots \times 10^{-12} \ \text{F/m}$		
h	$6.626~068~96(33) \times 10^{-34}~\mathrm{J\cdot s}$		
	$4.135~667~33(10) \times 10^{-15}~\mathrm{eV \cdot s}$		
\hbar	$1.054\ 571\ 628(53) \times 10^{-34}\ J\cdot s$		
	$6.582\ 118\ 99(16) \times 10^{-16}\ \mathrm{eV \cdot s}$		
e	$1.602\ 176\ 487(40) \times 10^{-19}\ \mathrm{C}$		
$\mu_{ ext{ iny B}}$	$9.274~009~15(23) \times 10^{-24} \text{ J/T}$		
	$h \cdot 1.399 \ 624 \ 604(35) \ \mathrm{MHz/G}$		
u	$1.660~538~782(83) \times 10^{-27}~\mathrm{kg}$		
$m_{ m e}$	$5.485\ 799\ 0943(23) \times 10^{-4}\ \mathrm{u}$		
	$9.109~382~15(45) \times 10^{-31} \text{ kg}$		
a_0	$0.529\ 177\ 208\ 59(36) \times 10^{-10}\ \mathrm{m}$		
$k_{\rm B}$	$1.380~6504(24) \times 10^{-23} \text{ J/K}$		
	c μ_0 ϵ_0 h h e μ_B u m_e		

Table 2: Rubidium 87 Physical Properties.

Atomic Number	Z	37	
Total Nucleons	Z + N	87	
Relative Natural Abundance	$\eta(^{87}\mathrm{Rb})$	27.83(2)%	[3]
Nuclear Lifetime	$ au_{ m n}$	$4.88 \times 10^{10} \text{ yr}$	[3]
Atomic Mass	m	86.909 180 520(15) u	[4]
		$1.443\ 160\ 648(72) \times 10^{-25}\ \mathrm{kg}$	
Density at 25°C	$ ho_{ m m}$	$1.53~\mathrm{g/cm^3}$	[3]
Melting Point	$T_{ m M}$	39.30 °C	[3]
Boiling Point	$T_{ m B}$	688 °C	[3]
Specific Heat Capacity	c_p	$0.363~\mathrm{J/g\cdot K}$	[3]
Molar Heat Capacity	C_p	31.060 J/mol·K	[3]
Vapor Pressure at 25°C	$P_{ m v}$	$3.92(20) \times 10^{-7} \text{ torr}$	[5]
Nuclear Spin	I	3/2	
Ionization Limit	$E_{ m I}$	$33~690.804~80(20)~\mathrm{cm}^{-1}$	[8]
		$4.177\ 127\ 06(10)\ \mathrm{eV}$	