CONSTANTS

Mathematical Constants

e Euler constant
2.7182818285

π Ratio of the circumference of a circle to its diameter
3.1415926536

Natural Constants

a0 Bohr radius
5.291772E-11 m

α Fine structure constant ($e^2/(2*\varepsilon0*c*h)$)
0.007297353

c Speed of light in vacuum (exact)
299792458 m/s

ε_0 Permittivity of vacuum or electric constant ($1/(\mu0*c^2)$)
8.8541878176E-12 $A^2*s^2/(N*m^2)$

ec Elementary charge (positron charge)
1.6021765E-19 C

F Faraday constant (N*ec)
96485.34 C/mol

Φ Magnetic flux quantum (h/2ec)
2.0678337E-15 Wb

g Standard acceleration due to gravity (approximately equal to the acceleration due to gravity on the Earth's surface)
9.80665 m/s^2

G Newtonian constant of gravitation
6.674E-11 $m^3/(kg*s^2)$

G0 Conductance quantum
0.00007748092 S

h Planck constant
6.626069E-34 J*s

hb Holds the Planck constant over 2π
1.0545717E-34 J*s

k Boltzmann constant
1.380651E-23 J/K

LP Planck length
1.6162E-35 m

md Deuteron rest mass
3.3435833E-27 kg

me Electron rest mass
9.109383E-31 kg

mn Neutron rest mass
1.6749273E-27 kg

mp Proton rest mass
1.6726217E-27 kg

mP Planck mass
2.1765E-08 kg

mμ Muon rest mass
1.8835314E-28 kg

μ0 Permeability of vacuum or magnetic constant.
1.2566370614E-06

μB Bohr magneton
9.274009E-24 C*J*s/kg

μN Nuclear magneton
5.050783E-27 C*J*s/kg

N Avogadro constant
6.022142E+23 mol^{-1}

R Molar gas constant (N*k)
8.31447 J/(mol*K)

Rinf Rydberg constant
1.0973731568E+07 m^{-1}

σ Stefan-Boltzmann constant
5.6704E-08 $J/(K^4*s*m^2)$

tP Planck time (LP/c)
5.3912E-44 s

u Unified atomic mass unit (0.001 kg/mol)/N
1.6605389E-27 kg

Z0 Characteristic impedance of vacuum (μ0*c)
376.730313461 Ω

The constants must have surrounding square brackets inside the editor. e.g. **[π]**