

**NAME**

**codata** - fundamental physical constants

**LIBRARY**

Codata (-libcodata, -lcodata)

**SYNOPSIS**

```
use codata
include "codata.h"
import pycodata

character(len=:), pointer function get_version()()
char** codata_get_version(void)
pycodata.__version__
```

**DESCRIPTION**

*codata* is a Fortran library providing the fundamental physical constants according to CODATA <https://www.nist.gov/programs-projects/codata-values-fundamental-physical-constants>. A C API allows usage from C, or can be used as a basis for other wrappers. Python wrapper allows easy usage from Python.

The latest *codata* constants 2022 <https://pml.nist.gov/cuu/Constants> were integrated in stdlib <https://github.com/fortran-lang/stdlib/releases/tag/v0.7.0>. The constants are implemented as derived type which carries the name, the value, the uncertainty and the unit. This library is complementary to the constants defined in the stdlib by providing older values for the constants.

The latest values (2022) do not have the year as a suffix in their name. Older values can be used and they feature the year as a suffix in their name.

All *codata* (physical) constants are defined as a derived type codata\_constant\_type. All the *codata* constants are provided as double precision reals. The names are quite long and can be aliased with shorter names.

The derived type codata\_constant\_type defines 4 members:

- o name** string
- o value** double precision real
- o uncertainty**  
double precision real
- o unit** string

The derived type codata\_constant\_type defines 2 type-bound procedures:

- o print** to print the values of the constant members;
- o to\_real**  
to get the value or the uncertainty to the desired precision.

A module level interface to\_real is available for getting the constant value or uncertainty of a constant.

The C API exposes a structure codata\_constant\_ttype that defines the same members as in Fortran. The Python wrapper encapsulates the members in a dictionary.

**NOTES**

To use *codata* within your fpm <https://github.com/fortran-lang/fpm> project, add the following lines to your file:

```
[dependencies]
codata = { git="https://github.com/MilanSkocic/codata.git" }
```

**EXAMPLE**

Example in Fortran

```

program example_in_f
use iso_fortran_env
use codata
implicit none

print '(A)', '# ##### EXAMPLE IN FORTRAN #####'

print '(A)', '# VERSION'
print *, "version = ", get_version()

print '(A)', '# CONSTANTS'
print *, "c = ", SPEED_OF_LIGHT_IN_VACUUM%value

print '(A)', '# UNCERTAINTY'
print *, "u(c) = ", SPEED_OF_LIGHT_IN_VACUUM%uncertainty

print '(A)', '# OLDER VALUES'
print '(A, F23.16)', "Mu_2022(latest) = ", MOLAR_MASS_CONSTANT%value
print '(A, F23.16)', "Mu_2018 = ", MOLAR_MASS_CONSTANT_2018%value
print '(A, F23.16)', "Mu_2014 = ", MOLAR_MASS_CONSTANT_2014%value
print '(A, F23.16)', "Mu_2010 = ", MOLAR_MASS_CONSTANT_2010%value
end program

```

Example in C:

```

#include <stdio.h>
#include "codata.h"

int main(void){

printf("##### EXAMPLE IN C #####0);

printf("%s0,# VERSION");
printf("version = %s0, codata_get_version()));

printf("%s0,# CONSTANTS");
printf("c = %f0, SPEED_OF_LIGHT_IN_VACUUM.value);

printf("%s0,# UNCERTAINTY");
printf("u(c) = %f0, SPEED_OF_LIGHT_IN_VACUUM.uncertainty);

printf("%s0,# OLDER VALUES");
printf("Mu_2022(latest) = %23.16f0, MOLAR_MASS_CONSTANT.value");
printf("Mu_2018 = %23.16f0, MOLAR_MASS_CONSTANT_2018.value");
printf("Mu_2014 = %23.16f0, MOLAR_MASS_CONSTANT_2014.value");
printf("Mu_2010 = %23.16f0, MOLAR_MASS_CONSTANT_2010.value");

return 0;
}

```

Example in Python:

```
import pycodata
```

```

print("##### EXAMPLE IN PYTHON #####")
print("# VERSION")
print(f"version = {pycodata.__version__} ")

print("# Constants")
print(f"c = {pycodata.SPEED_OF_LIGHT_IN_VACUUM['value']}")

print("# UNCERTAINTY")
print(f"u(c) = {pycodata.SPEED_OF_LIGHT_IN_VACUUM['uncertainty']}")

print("# OLDER VALUES")
print(f"Mu_2022 = {pycodata.MOLAR_MASS_CONSTANT['value']}")
print(f"Mu_2018 = {pycodata.MOLAR_MASS_CONSTANT_2018['value']}")
print(f"Mu_2014 = {pycodata.MOLAR_MASS_CONSTANT_2014['value']}")
print(f"Mu_2010 = {pycodata.MOLAR_MASS_CONSTANT_2010['value']}")

```

**SEE ALSO**[gsl\(3\)](#)**CODATA 2022**

- ALPHA\_PARTICLE\_ELECTRON\_MASS\_RATIO
- ALPHA\_PARTICLE\_MASS
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- ALPHA\_PARTICLE\_MASS\_IN\_U
- ALPHA\_PARTICLE\_MOLAR\_MASS
- ALPHA\_PARTICLE\_PROTON\_MASS\_RATIO
- ALPHA\_PARTICLE\_RELATIVE\_ATOMIC\_MASS
- ALPHA\_PARTICLE\_RMS\_CHARGE\_RADIUS
- ANGSTROM\_STAR
- ATOMIC\_MASS\_CONSTANT
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_IN\_MEV
- ATOMIC\_MASS\_UNIT\_ELECTRON\_VOLT\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_HARTREE\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_HERTZ\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_INVERSE\_METER\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_JOULE\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_KELVIN\_RELATIONSHIP
- ATOMIC\_MASS\_UNIT\_KILOGRAM\_RELATIONSHIP
- ATOMIC\_UNIT\_OF\_1ST\_HYPERPOLARIZABILITY
- ATOMIC\_UNIT\_OF\_2ND\_HYPERPOLARIZABILITY
- ATOMIC\_UNIT\_OF\_ACTION

- ATOMIC\_UNIT\_OF\_CHARGE
- ATOMIC\_UNIT\_OF\_CHARGE\_DENSITY
- ATOMIC\_UNIT\_OF\_CURRENT
- ATOMIC\_UNIT\_OF\_ELECTRIC\_DIPOLE\_MOM
- ATOMIC\_UNIT\_OF\_ELECTRIC\_FIELD
- ATOMIC\_UNIT\_OF\_ELECTRIC\_FIELD\_GRADIENT
- ATOMIC\_UNIT\_OF\_ELECTRIC\_POLARIZABILITY
- ATOMIC\_UNIT\_OF\_ELECTRIC\_POTENTIAL
- ATOMIC\_UNIT\_OF\_ELECTRIC\_QUADRUPOLE\_MOM
- ATOMIC\_UNIT\_OF\_ENERGY
- ATOMIC\_UNIT\_OF\_FORCE
- ATOMIC\_UNIT\_OF\_LENGTH
- ATOMIC\_UNIT\_OF\_MAG\_DIPOLE\_MOM
- ATOMIC\_UNIT\_OF\_MAG\_FLUX\_DENSITY
- ATOMIC\_UNIT\_OF\_MAGNETIZABILITY
- ATOMIC\_UNIT\_OF\_MASS
- ATOMIC\_UNIT\_OF\_MOMENTUM
- ATOMIC\_UNIT\_OF\_PERMITTIVITY
- ATOMIC\_UNIT\_OF\_TIME
- ATOMIC\_UNIT\_OF\_VELOCITY
- AVOGADRO\_CONSTANT
- BOHR\_MAGNETON
- BOHR\_MAGNETON\_IN\_EV\_T
- BOHR\_MAGNETON\_IN\_HZ\_T
- BOHR\_MAGNETON\_IN\_INVERSE\_METER\_PER\_TESLA
- BOHR\_MAGNETON\_IN\_K\_T
- BOHR\_RADIUS
- BOLTZMANN\_CONSTANT
- BOLTZMANN\_CONSTANT\_IN\_EV\_K
- BOLTZMANN\_CONSTANT\_IN\_HZ\_K
- BOLTZMANN\_CONSTANT\_IN\_INVERSE\_METER\_PER\_KELVIN
- CHARACTERISTIC\_IMPEDANCE\_OF\_VACUUM
- CLASSICAL\_ELECTRON\_RADIUS
- COMPTON\_WAVELENGTH
- CONDUCTANCE\_QUANTUM
- CONVENTIONAL\_VALUE\_OF\_AMPERE\_90
- CONVENTIONAL\_VALUE\_OF\_COULOMB\_90
- CONVENTIONAL\_VALUE\_OF\_FARAD\_90

- CONVENTIONAL\_VALUE\_OF\_HENRY\_90
- CONVENTIONAL\_VALUE\_OF\_JOSEPHSON\_CONSTANT
- CONVENTIONAL\_VALUE\_OF\_OHM\_90
- CONVENTIONAL\_VALUE\_OF\_VOLT\_90
- CONVENTIONAL\_VALUE\_OF\_VON\_KLITZING\_CONSTANT
- CONVENTIONAL\_VALUE\_OF\_WATT\_90
- COPPER\_X\_UNIT
- DEUTERON\_ELECTRON\_MAG\_MOM\_RATIO
- DEUTERON\_ELECTRON\_MASS\_RATIO
- DEUTERON\_G\_FACTOR
- DEUTERON\_MAG\_MOM
- DEUTERON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- DEUTERON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- DEUTERON\_MASS
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- DEUTERON\_MASS\_IN\_U
- DEUTERON\_MOLAR\_MASS
- DEUTERON\_NEUTRON\_MAG\_MOM\_RATIO
- DEUTERON\_PROTON\_MAG\_MOM\_RATIO
- DEUTERON\_PROTON\_MASS\_RATIO
- DEUTERON\_RELATIVE\_ATOMIC\_MASS
- DEUTERON\_RMS\_CHARGE\_RADIUS
- ELECTRON\_CHARGE\_TO\_MASS\_QUOTIENT
- ELECTRON\_DEUTERON\_MAG\_MOM\_RATIO
- ELECTRON\_DEUTERON\_MASS\_RATIO
- ELECTRON\_G\_FACTOR
- ELECTRON\_GYROMAG\_RATIO
- ELECTRON\_GYROMAG\_RATIO\_IN\_MHZ\_T
- ELECTRON\_HELIUM\_MASS\_RATIO
- ELECTRON\_MAG\_MOM
- ELECTRON\_MAG\_MOM\_ANOMALY
- ELECTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- ELECTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- ELECTRON\_MASS
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- ELECTRON\_MASS\_IN\_U

- ELECTRON\_MOLAR\_MASS
- ELECTRON\_MUON\_MAG\_MOM\_RATIO
- ELECTRON\_MUON\_MASS\_RATIO
- ELECTRON\_NEUTRON\_MAG\_MOM\_RATIO
- ELECTRON\_NEUTRON\_MASS\_RATIO
- ELECTRON\_PROTON\_MAG\_MOM\_RATIO
- ELECTRON\_PROTON\_MASS\_RATIO
- ELECTRON\_RELATIVE\_ATOMIC\_MASS
- ELECTRON\_TAU\_MASS\_RATIO
- ELECTRON\_TO\_ALPHA\_PARTICLE\_MASS\_RATIO
- ELECTRON\_TO\_SHIELDED\_HELIUM\_MAG\_MOM\_RATIO
- ELECTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO
- ELECTRON\_TRITON\_MASS\_RATIO
- ELECTRON\_VOLT
- ELECTRON\_VOLT\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- ELECTRON\_VOLT\_HARTREE\_RELATIONSHIP
- ELECTRON\_VOLT\_HERTZ\_RELATIONSHIP
- ELECTRON\_VOLT\_INVERSE\_METER\_RELATIONSHIP
- ELECTRON\_VOLT\_JOULE\_RELATIONSHIP
- ELECTRON\_VOLT\_KELVIN\_RELATIONSHIP
- ELECTRON\_VOLT\_KILOGRAM\_RELATIONSHIP
- ELEMENTARY\_CHARGE
- ELEMENTARY\_CHARGE\_OVER\_H\_BAR
- FARADAY\_CONSTANT
- FERMI\_COUPLING\_CONSTANT
- FINE\_STRUCTURE\_CONSTANT
- FIRST\_RADIATION\_CONSTANT
- FIRST\_RADIATION\_CONSTANT\_FOR\_SPECTRAL\_RADIANCEx
- HARTREE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- HARTREE\_ELECTRON\_VOLT\_RELATIONSHIP
- HARTREE\_ENERGY
- HARTREE\_ENERGY\_IN\_EV
- HARTREE\_HERTZ\_RELATIONSHIP
- HARTREE\_INVERSE\_METER\_RELATIONSHIP
- HARTREE\_JOULE\_RELATIONSHIP
- HARTREE\_KELVIN\_RELATIONSHIP
- HARTREE\_KILOGRAM\_RELATIONSHIP
- HELIUM\_ELECTRON\_MASS\_RATIO

- HELION\_G\_FACTOR
- HELION\_MAG\_MOM
- HELION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- HELION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- HELION\_MASS
- HELION\_MASS\_ENERGY\_EQUIVALENT
- HELION\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- HELION\_MASS\_IN\_U
- HELION\_MOLAR\_MASS
- HELION\_PROTON\_MASS\_RATIO
- HELION\_RELATIVE\_ATOMIC\_MASS
- HELION\_SHIELDING\_SHIFT
- HERTZ\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- HERTZ\_ELECTRON\_VOLT\_RELATIONSHIP
- HERTZ\_HARTREE\_RELATIONSHIP
- HERTZ\_INVERSE\_METER\_RELATIONSHIP
- HERTZ\_JOULE\_RELATIONSHIP
- HERTZ\_KELVIN\_RELATIONSHIP
- HERTZ\_KILOGRAM\_RELATIONSHIP
- HYPERFINE\_TRANSITION\_FREQUENCY\_OF\_CS\_133
- INVERSE\_FINE\_STRUCTURE\_CONSTANT
- INVERSE\_METER\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- INVERSE\_METER\_ELECTRON\_VOLT\_RELATIONSHIP
- INVERSE\_METER\_HARTREE\_RELATIONSHIP
- INVERSE\_METER\_HERTZ\_RELATIONSHIP
- INVERSE\_METER\_JOULE\_RELATIONSHIP
- INVERSE\_METER\_KELVIN\_RELATIONSHIP
- INVERSE\_METER\_KILOGRAM\_RELATIONSHIP
- INVERSE\_OF\_CONDUCTANCE\_QUANTUM
- JOSEPHSON\_CONSTANT
- JOULE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- JOULE\_ELECTRON\_VOLT\_RELATIONSHIP
- JOULE\_HARTREE\_RELATIONSHIP
- JOULE\_HERTZ\_RELATIONSHIP
- JOULE\_INVERSE\_METER\_RELATIONSHIP
- JOULE\_KELVIN\_RELATIONSHIP
- JOULE\_KILOGRAM\_RELATIONSHIP
- KELVIN\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP

- KELVIN\_ELECTRON\_VOLT\_RELATIONSHIP
- KELVIN\_HARTREE\_RELATIONSHIP
- KELVIN\_HERTZ\_RELATIONSHIP
- KELVIN\_INVERSE\_METER\_RELATIONSHIP
- KELVIN\_JOULE\_RELATIONSHIP
- KELVIN\_KILOGRAM\_RELATIONSHIP
- KILOGRAM\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP
- KILOGRAM\_ELECTRON\_VOLT\_RELATIONSHIP
- KILOGRAM\_HARTREE\_RELATIONSHIP
- KILOGRAM\_HERTZ\_RELATIONSHIP
- KILOGRAM\_INVERSE\_METER\_RELATIONSHIP
- KILOGRAM\_JOULE\_RELATIONSHIP
- KILOGRAM\_KELVIN\_RELATIONSHIP
- LATTICE\_PARAMETER\_OF\_SILOCON
- LATTICE\_SPACING\_OF\_IDEAL\_SI\_220
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_100\_KPA
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_101\_325\_KPA
- LUMINOUS EFFICACY
- MAG\_FLUX\_QUANTUM
- MOLAR\_GAS\_CONSTANT
- MOLAR\_MASS\_CONSTANT
- MOLAR\_MASS\_OF\_CARBON\_12
- MOLAR\_PLANCK\_CONSTANT
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_100\_KPA
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_101\_325\_KPA
- MOLAR\_VOLUME\_OF\_SILOCON
- MOLYBDENUM\_X\_UNIT
- MUON\_COMPTON\_WAVELENGTH
- MUON\_ELECTRON\_MASS\_RATIO
- MUON\_G\_FACTOR
- MUON\_MAG\_MOM
- MUON\_MAG\_MOM\_ANOMALY
- MUON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- MUON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- MUON\_MASS
- MUON\_MASS\_ENERGY\_EQUIVALENT
- MUON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- MUON\_MASS\_IN\_U

- MUON\_MOLAR\_MASS
- MUON\_NEUTRON\_MASS\_RATIO
- MUON\_PROTON\_MAG\_MOM\_RATIO
- MUON\_PROTON\_MASS\_RATIO
- MUON\_TAU\_MASS\_RATIO
- NATURAL\_UNIT\_OF\_ACTION
- NATURAL\_UNIT\_OF\_ACTION\_IN\_EV\_S
- NATURAL\_UNIT\_OF\_ENERGY
- NATURAL\_UNIT\_OF\_ENERGY\_IN\_MEV
- NATURAL\_UNIT\_OF\_LENGTH
- NATURAL\_UNIT\_OF\_MASS
- NATURAL\_UNIT\_OF\_MOMENTUM
- NATURAL\_UNIT\_OF\_MOMENTUM\_IN\_MEV\_C
- NATURAL\_UNIT\_OF\_TIME
- NATURAL\_UNIT\_OF\_VELOCITY
- NEUTRON\_COMPTON\_WAVELENGTH
- NEUTRON\_ELECTRON\_MAG\_MOM\_RATIO
- NEUTRON\_ELECTRON\_MASS\_RATIO
- NEUTRON\_G\_FACTOR
- NEUTRON\_GYROMAG\_RATIO
- NEUTRON\_GYROMAG\_RATIO\_IN\_MHZ\_T
- NEUTRON\_MAG\_MOM
- NEUTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- NEUTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- NEUTRON\_MASS
- NEUTRON\_MASS\_ENERGY\_EQUIVALENT
- NEUTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- NEUTRON\_MASS\_IN\_U
- NEUTRON\_MOLAR\_MASS
- NEUTRON\_MUON\_MASS\_RATIO
- NEUTRON\_PROTON\_MAG\_MOM\_RATIO
- NEUTRON\_PROTON\_MASS\_DIFFERENCE
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT\_IN\_MEV
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_IN\_U
- NEUTRON\_PROTON\_MASS\_RATIO
- NEUTRON\_RELATIVE\_ATOMIC\_MASS
- NEUTRON\_TAU\_MASS\_RATIO

- NEUTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION\_OVER\_H\_BAR\_C
- NUCLEAR\_MAGNETON
- NUCLEAR\_MAGNETON\_IN\_EV\_T
- NUCLEAR\_MAGNETON\_IN\_INVERSE\_METER\_PER\_TESLA
- NUCLEAR\_MAGNETON\_IN\_K\_T
- NUCLEAR\_MAGNETON\_IN\_MHZ\_T
- PLANCK\_CONSTANT
- PLANCK\_CONSTANT\_IN\_EV\_HZ
- PLANCK\_LENGTH
- PLANCK\_MASS
- PLANCK\_MASS\_ENERGY\_EQUIVALENT\_IN\_GEV
- PLANCK\_TEMPERATURE
- PLANCK\_TIME
- PROTON\_CHARGE\_TO\_MASS\_QUOTIENT
- PROTON\_COMPTON\_WAVELENGTH
- PROTON\_ELECTRON\_MASS\_RATIO
- PROTON\_G\_FACTOR
- PROTON\_GYROMAG\_RATIO
- PROTON\_GYROMAG\_RATIO\_IN\_MHZ\_T
- PROTON\_MAG\_MOM
- PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- PROTON\_MAG\_SHIELDING\_CORRECTION
- PROTON\_MASS
- PROTON\_MASS\_ENERGY\_EQUIVALENT
- PROTON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- PROTON\_MASS\_IN\_U
- PROTON\_MOLAR\_MASS
- PROTON\_MUON\_MASS\_RATIO
- PROTON\_NEUTRON\_MAG\_MOM\_RATIO
- PROTON\_NEUTRON\_MASS\_RATIO
- PROTON\_RELATIVE\_ATOMIC\_MASS
- PROTON\_RMS\_CHARGE\_RADIUS
- PROTON\_TAU\_MASS\_RATIO
- QUANTUM\_OF\_CIRCULATION
- QUANTUM\_OF\_CIRCULATION\_TIMES\_2

- REDUCED\_COMPTON\_WAVELENGTH
- REDUCED\_MUON\_COMPTON\_WAVELENGTH
- REDUCED\_NEUTRON\_COMPTON\_WAVELENGTH
- REDUCED\_PLANCK\_CONSTANT
- REDUCED\_PLANCK\_CONSTANT\_IN\_EV\_S
- REDUCED\_PLANCK\_CONSTANT\_TIMES\_C\_IN\_MEV\_FM
- REDUCED\_PROTON\_COMPTON\_WAVELENGTH
- REDUCED\_TAU\_COMPTON\_WAVELENGTH
- RYDBERG\_CONSTANT
- RYDBERG\_CONSTANT\_TIMES\_C\_IN\_HZ
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_EV
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_J
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_100\_KPA
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_101\_325\_KPA
- SECOND\_RADIATION\_CONSTANT
- SHIELDED\_HELIUM\_GYROMAG\_RATIO
- SHIELDED\_HELIUM\_GYROMAG\_RATIO\_IN\_MHZ\_T
- SHIELDED\_HELIUM\_MAG\_MOM
- SHIELDED\_HELIUM\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- SHIELDED\_HELIUM\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- SHIELDED\_HELIUM\_TO\_PROTON\_MAG\_MOM\_RATIO
- SHIELDED\_HELIUM\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO
- SHIELDED\_PROTON\_GYROMAG\_RATIO
- SHIELDED\_PROTON\_GYROMAG\_RATIO\_IN\_MHZ\_T
- SHIELDED\_PROTON\_MAG\_MOM
- SHIELDED\_PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- SHIELDED\_PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- SHIELDING\_DIFFERENCE\_OF\_D\_AND\_P\_IN\_HD
- SHIELDING\_DIFFERENCE\_OF\_T\_AND\_P\_IN\_HT
- SPEED\_OF\_LIGHT\_IN\_VACUUM
- STANDARD\_ACCELERATION\_OF\_GRAVITY
- STANDARD\_ATMOSPHERE
- STANDARD\_STATE\_PRESSURE
- STEFAN\_BOLTZMANN\_CONSTANT
- TAU\_COMPTON\_WAVELENGTH
- TAU\_ELECTRON\_MASS\_RATIO
- TAU\_ENERGY\_EQUIVALENT
- TAU\_MASS

- TAU\_MASS\_ENERGY\_EQUIVALENT
- TAU\_MASS\_IN\_U
- TAU\_MOLAR\_MASS
- TAU\_MUON\_MASS\_RATIO
- TAU\_NEUTRON\_MASS\_RATIO
- TAU\_PROTON\_MASS\_RATIO
- THOMSON\_CROSS\_SECTION
- TRITON\_ELECTRON\_MASS\_RATIO
- TRITON\_G\_FACTOR
- TRITON\_MAG\_MOM
- TRITON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO
- TRITON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO
- TRITON\_MASS
- TRITON\_MASS\_ENERGY\_EQUIVALENT
- TRITON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV
- TRITON\_MASS\_IN\_U
- TRITON\_MOLAR\_MASS
- TRITON\_PROTON\_MASS\_RATIO
- TRITON\_RELATIVE\_ATOMIC\_MASS
- TRITON\_TO\_PROTON\_MAG\_MOM\_RATIO
- UNIFIED\_ATOMIC\_MASS\_UNIT
- VACUUM\_ELECTRIC\_PERMITTIVITY
- VACUUM\_MAG\_PERMEABILITY
- VON\_KLITZING\_CONSTANT
- WEAK\_MIXING\_ANGLE
- WIEN\_FREQUENCY\_DISPLACEMENT\_LAW\_CONSTANT
- WIEN\_WAVELENGTH\_DISPLACEMENT\_LAW\_CONSTANT
- W\_TO\_Z\_MASS\_RATIO

**CODATA 2018**

- ALPHA\_PARTICLE\_ELECTRON\_MASS\_RATIO\_2018
- ALPHA\_PARTICLE\_MASS\_2018
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_2018
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- ALPHA\_PARTICLE\_MASS\_IN\_U\_2018
- ALPHA\_PARTICLE\_MOLAR\_MASS\_2018
- ALPHA\_PARTICLE\_PROTON\_MASS\_RATIO\_2018
- ALPHA\_PARTICLE\_RELATIVE\_ATOMIC\_MASS\_2018
- ANGSTROM\_STAR\_2018

- ATOMIC\_MASS\_CONSTANT\_2018
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_2018
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- ATOMIC\_MASS\_UNIT\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_HARTREE\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_HERTZ\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_INVERSE\_METER\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_JOULE\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_KELVIN\_RELATIONSHIP\_2018
- ATOMIC\_MASS\_UNIT\_KILOGRAM\_RELATIONSHIP\_2018
- ATOMIC\_UNIT\_OF\_1ST\_HYPERPOLARIZABILITY\_2018
- ATOMIC\_UNIT\_OF\_2ND\_HYPERPOLARIZABILITY\_2018
- ATOMIC\_UNIT\_OF\_ACTION\_2018
- ATOMIC\_UNIT\_OF\_CHARGE\_2018
- ATOMIC\_UNIT\_OF\_CHARGE\_DENSITY\_2018
- ATOMIC\_UNIT\_OF\_CURRENT\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_DIPOLE\_MOM\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_FIELD\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_FIELD\_GRADIENT\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_POLARIZABILITY\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_POTENTIAL\_2018
- ATOMIC\_UNIT\_OF\_ELECTRIC\_QUADRUPOLE\_MOM\_2018
- ATOMIC\_UNIT\_OF\_ENERGY\_2018
- ATOMIC\_UNIT\_OF\_FORCE\_2018
- ATOMIC\_UNIT\_OF\_LENGTH\_2018
- ATOMIC\_UNIT\_OF\_MAG\_DIPOLE\_MOM\_2018
- ATOMIC\_UNIT\_OF\_MAG\_FLUX\_DENSITY\_2018
- ATOMIC\_UNIT\_OF\_MAGNETIZABILITY\_2018
- ATOMIC\_UNIT\_OF\_MASS\_2018
- ATOMIC\_UNIT\_OF\_MOMENTUM\_2018
- ATOMIC\_UNIT\_OF\_PERMITTIVITY\_2018
- ATOMIC\_UNIT\_OF\_TIME\_2018
- ATOMIC\_UNIT\_OF\_VELOCITY\_2018
- AVOGADRO\_CONSTANT\_2018
- BOHR\_MAGNETON\_2018
- BOHR\_MAGNETON\_IN\_EV\_T\_2018
- BOHR\_MAGNETON\_IN\_HZ\_T\_2018
- BOHR\_MAGNETON\_IN\_INVERSE\_METER\_PER\_TESLA\_2018

- BOHR\_MAGNETON\_IN\_K\_T\_2018
- BOHR\_RADIUS\_2018
- BOLTZMANN\_CONSTANT\_2018
- BOLTZMANN\_CONSTANT\_IN\_EV\_K\_2018
- BOLTZMANN\_CONSTANT\_IN\_HZ\_K\_2018
- BOLTZMANN\_CONSTANT\_IN\_INVERSE\_METER\_PER\_KELVIN\_2018
- CHARACTERISTIC\_IMPEDANCE\_OF\_VACUUM\_2018
- CLASSICAL\_ELECTRON\_RADIUS\_2018
- COMPTON\_WAVELENGTH\_2018
- CONDUCTANCE\_QUANTUM\_2018
- CONVENTIONAL\_VALUE\_OF\_AMPERE\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_COULOMB\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_FARAD\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_HENRY\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_JOSEPHSON\_CONSTANT\_2018
- CONVENTIONAL\_VALUE\_OF\_OHM\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_VOLT\_90\_2018
- CONVENTIONAL\_VALUE\_OF\_VON\_KLITZING\_CONSTANT\_2018
- CONVENTIONAL\_VALUE\_OF\_WATT\_90\_2018
- COPPER\_X\_UNIT\_2018
- DEUTERON\_ELECTRON\_MAG\_MOM\_RATIO\_2018
- DEUTERON\_ELECTRON\_MASS\_RATIO\_2018
- DEUTERON\_G\_FACTOR\_2018
- DEUTERON\_MAG\_MOM\_2018
- DEUTERON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- DEUTERON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- DEUTERON\_MASS\_2018
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_2018
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- DEUTERON\_MASS\_IN\_U\_2018
- DEUTERON\_MOLAR\_MASS\_2018
- DEUTERON\_NEUTRON\_MAG\_MOM\_RATIO\_2018
- DEUTERON\_PROTON\_MAG\_MOM\_RATIO\_2018
- DEUTERON\_PROTON\_MASS\_RATIO\_2018
- DEUTERON\_RELATIVE\_ATOMIC\_MASS\_2018
- DEUTERON\_RMS\_CHARGE\_RADIUS\_2018
- ELECTRON\_CHARGE\_TO\_MASS\_QUOTIENT\_2018
- ELECTRON\_DEUTERON\_MAG\_MOM\_RATIO\_2018

- ELECTRON\_DEUTERON\_MASS\_RATIO\_2018
- ELECTRON\_G\_FACTOR\_2018
- ELECTRON\_GYROMAG\_RATIO\_2018
- ELECTRON\_GYROMAG\_RATIO\_IN\_MHZ\_T\_2018
- ELECTRON\_HELIION\_MASS\_RATIO\_2018
- ELECTRON\_MAG\_MOM\_2018
- ELECTRON\_MAG\_MOM\_ANOMALY\_2018
- ELECTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- ELECTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- ELECTRON\_MASS\_2018
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_2018
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- ELECTRON\_MASS\_IN\_U\_2018
- ELECTRON\_MOLAR\_MASS\_2018
- ELECTRON\_MUON\_MAG\_MOM\_RATIO\_2018
- ELECTRON\_MUON\_MASS\_RATIO\_2018
- ELECTRON\_NEUTRON\_MAG\_MOM\_RATIO\_2018
- ELECTRON\_NEUTRON\_MASS\_RATIO\_2018
- ELECTRON\_PROTON\_MAG\_MOM\_RATIO\_2018
- ELECTRON\_PROTON\_MASS\_RATIO\_2018
- ELECTRON\_RELATIVE\_ATOMIC\_MASS\_2018
- ELECTRON\_TAU\_MASS\_RATIO\_2018
- ELECTRON\_TO\_ALPHA\_PARTICLE\_MASS\_RATIO\_2018
- ELECTRON\_TO\_SHIELDED\_HELIION\_MAG\_MOM\_RATIO\_2018
- ELECTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2018
- ELECTRON\_TRITON\_MASS\_RATIO\_2018
- ELECTRON\_VOLT\_2018
- ELECTRON\_VOLT\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_HARTREE\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_HERTZ\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_INVERSE\_METER\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_JOULE\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_KELVIN\_RELATIONSHIP\_2018
- ELECTRON\_VOLT\_KILOGRAM\_RELATIONSHIP\_2018
- ELEMENTARY\_CHARGE\_2018
- ELEMENTARY\_CHARGE\_OVER\_H\_BAR\_2018
- FARADAY\_CONSTANT\_2018
- FERMI\_COUPLING\_CONSTANT\_2018

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Library calls

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- FINE\_STRUCTURE\_CONSTANT\_2018
- FIRST\_RADIATION\_CONSTANT\_2018
- FIRST\_RADIATION\_CONSTANT\_FOR\_SPECTRAL\_RADIANC\_2018
- HARTREE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- HARTREE\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- HARTREE\_ENERGY\_2018
- HARTREE\_ENERGY\_IN\_EV\_2018
- HARTREE\_HERTZ\_RELATIONSHIP\_2018
- HARTREE\_INVERSE\_METER\_RELATIONSHIP\_2018
- HARTREE\_JOULE\_RELATIONSHIP\_2018
- HARTREE\_KELVIN\_RELATIONSHIP\_2018
- HARTREE\_KILOGRAM\_RELATIONSHIP\_2018
- HELION\_ELECTRON\_MASS\_RATIO\_2018
- HELION\_G\_FACTOR\_2018
- HELION\_MAG\_MOM\_2018
- HELION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- HELION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- HELION\_MASS\_2018
- HELION\_MASS\_ENERGY\_EQUIVALENT\_2018
- HELION\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- HELION\_MASS\_IN\_U\_2018
- HELION\_MOLAR\_MASS\_2018
- HELION\_PROTON\_MASS\_RATIO\_2018
- HELION\_RELATIVE\_ATOMIC\_MASS\_2018
- HELION\_SHIELDING\_SHIFT\_2018
- HERTZ\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- HERTZ\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- HERTZ\_HARTREE\_RELATIONSHIP\_2018
- HERTZ\_INVERSE\_METER\_RELATIONSHIP\_2018
- HERTZ\_JOULE\_RELATIONSHIP\_2018
- HERTZ\_KELVIN\_RELATIONSHIP\_2018
- HERTZ\_KILOGRAM\_RELATIONSHIP\_2018
- HYPERFINE\_TRANSITION\_FREQUENCY\_OF\_CS\_133\_2018
- INVERSE\_FINE\_STRUCTURE\_CONSTANT\_2018
- INVERSE\_METER\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- INVERSE\_METER\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- INVERSE\_METER\_HARTREE\_RELATIONSHIP\_2018
- INVERSE\_METER\_HERTZ\_RELATIONSHIP\_2018

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- INVERSE\_METER\_JOULE\_RELATIONSHIP\_2018
- INVERSE\_METER\_KELVIN\_RELATIONSHIP\_2018
- INVERSE\_METER\_KILOGRAM\_RELATIONSHIP\_2018
- INVERSE\_OF\_CONDUCTANCE\_QUANTUM\_2018
- JOSEPHSON\_CONSTANT\_2018
- JOULE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- JOULE\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- JOULE\_HARTREE\_RELATIONSHIP\_2018
- JOULE\_HERTZ\_RELATIONSHIP\_2018
- JOULE\_INVERSE\_METER\_RELATIONSHIP\_2018
- JOULE\_KELVIN\_RELATIONSHIP\_2018
- JOULE\_KILOGRAM\_RELATIONSHIP\_2018
- KELVIN\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- KELVIN\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- KELVIN\_HARTREE\_RELATIONSHIP\_2018
- KELVIN\_HERTZ\_RELATIONSHIP\_2018
- KELVIN\_INVERSE\_METER\_RELATIONSHIP\_2018
- KELVIN\_JOULE\_RELATIONSHIP\_2018
- KELVIN\_KILOGRAM\_RELATIONSHIP\_2018
- KILOGRAM\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2018
- KILOGRAM\_ELECTRON\_VOLT\_RELATIONSHIP\_2018
- KILOGRAM\_HARTREE\_RELATIONSHIP\_2018
- KILOGRAM\_HERTZ\_RELATIONSHIP\_2018
- KILOGRAM\_INVERSE\_METER\_RELATIONSHIP\_2018
- KILOGRAM\_JOULE\_RELATIONSHIP\_2018
- KILOGRAM\_KELVIN\_RELATIONSHIP\_2018
- LATTICE\_PARAMETER\_OF\_SILICON\_2018
- LATTICE\_SPACING\_OF\_IDEAL\_SI\_220\_2018
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_100\_KPA\_2018
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_101\_325\_KPA\_2018
- LUMINOUS\_EFFICACY\_2018
- MAG\_FLUX\_QUANTUM\_2018
- MOLAR\_GAS\_CONSTANT\_2018
- MOLAR\_MASS\_CONSTANT\_2018
- MOLAR\_MASS\_OF\_CARBON\_12\_2018
- MOLAR\_PLANCK\_CONSTANT\_2018
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_100\_KPA\_2018
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_101\_325\_KPA\_2018

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- MOLAR\_VOLUME\_OF\_SILICON\_2018
- MOLYBDENUM\_X\_UNIT\_2018
- MUON\_COMPTON\_WAVELENGTH\_2018
- MUON\_ELECTRON\_MASS\_RATIO\_2018
- MUON\_G\_FACTOR\_2018
- MUON\_MAG\_MOM\_2018
- MUON\_MAG\_MOM\_ANOMALY\_2018
- MUON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- MUON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- MUON\_MASS\_2018
- MUON\_MASS\_ENERGY\_EQUIVALENT\_2018
- MUON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- MUON\_MASS\_IN\_U\_2018
- MUON\_MOLAR\_MASS\_2018
- MUON\_NEUTRON\_MASS\_RATIO\_2018
- MUON\_PROTON\_MAG\_MOM\_RATIO\_2018
- MUON\_PROTON\_MASS\_RATIO\_2018
- MUON\_TAU\_MASS\_RATIO\_2018
- NATURAL\_UNIT\_OF\_ACTION\_2018
- NATURAL\_UNIT\_OF\_ACTION\_IN\_EV\_S\_2018
- NATURAL\_UNIT\_OF\_ENERGY\_2018
- NATURAL\_UNIT\_OF\_ENERGY\_IN\_MEV\_2018
- NATURAL\_UNIT\_OF\_LENGTH\_2018
- NATURAL\_UNIT\_OF\_MASS\_2018
- NATURAL\_UNIT\_OF\_MOMENTUM\_2018
- NATURAL\_UNIT\_OF\_MOMENTUM\_IN\_MEV\_C\_2018
- NATURAL\_UNIT\_OF\_TIME\_2018
- NATURAL\_UNIT\_OF\_VELOCITY\_2018
- NEUTRON\_COMPTON\_WAVELENGTH\_2018
- NEUTRON\_ELECTRON\_MAG\_MOM\_RATIO\_2018
- NEUTRON\_ELECTRON\_MASS\_RATIO\_2018
- NEUTRON\_G\_FACTOR\_2018
- NEUTRON\_GYROMAG\_RATIO\_2018
- NEUTRON\_GYROMAG\_RATIO\_IN\_MHZ\_T\_2018
- NEUTRON\_MAG\_MOM\_2018
- NEUTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- NEUTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- NEUTRON\_MASS\_2018

- NEUTRON\_MASS\_ENERGY\_EQUIVALENT\_2018
- NEUTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- NEUTRON\_MASS\_IN\_U\_2018
- NEUTRON\_MOLAR\_MASS\_2018
- NEUTRON\_MUON\_MASS\_RATIO\_2018
- NEUTRON\_PROTON\_MAG\_MOM\_RATIO\_2018
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_2018
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT\_2018
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_IN\_U\_2018
- NEUTRON\_PROTON\_MASS\_RATIO\_2018
- NEUTRON\_RELATIVE\_ATOMIC\_MASS\_2018
- NEUTRON\_TAU\_MASS\_RATIO\_2018
- NEUTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2018
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION\_2018
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION\_OVER\_H\_BAR\_C\_2018
- NUCLEAR\_MAGNETON\_2018
- NUCLEAR\_MAGNETON\_IN\_EV\_T\_2018
- NUCLEAR\_MAGNETON\_IN\_INVERSE\_METER\_PER\_TESLA\_2018
- NUCLEAR\_MAGNETON\_IN\_K\_T\_2018
- NUCLEAR\_MAGNETON\_IN\_MHZ\_T\_2018
- PLANCK\_CONSTANT\_2018
- PLANCK\_CONSTANT\_IN\_EV\_HZ\_2018
- PLANCK\_LENGTH\_2018
- PLANCK\_MASS\_2018
- PLANCK\_MASS\_ENERGY\_EQUIVALENT\_IN\_GEV\_2018
- PLANCK\_TEMPERATURE\_2018
- PLANCK\_TIME\_2018
- PROTON\_CHARGE\_TO\_MASS\_QUOTIENT\_2018
- PROTON\_COMPTON\_WAVELENGTH\_2018
- PROTON\_ELECTRON\_MASS\_RATIO\_2018
- PROTON\_G\_FACTOR\_2018
- PROTON\_GYROMAG\_RATIO\_2018
- PROTON\_GYROMAG\_RATIO\_IN\_MHZ\_T\_2018
- PROTON\_MAG\_MOM\_2018
- PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- PROTON\_MAG\_SHIELDING\_CORRECTION\_2018

- PROTON\_MASS\_2018
- PROTON\_MASS\_ENERGY\_EQUIVALENT\_2018
- PROTON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- PROTON\_MASS\_IN\_U\_2018
- PROTON\_MOLAR\_MASS\_2018
- PROTON\_MUON\_MASS\_RATIO\_2018
- PROTON\_NEUTRON\_MAG\_MOM\_RATIO\_2018
- PROTON\_NEUTRON\_MASS\_RATIO\_2018
- PROTON\_RELATIVE\_ATOMIC\_MASS\_2018
- PROTON\_RMS\_CHARGE\_RADIUS\_2018
- PROTON\_TAU\_MASS\_RATIO\_2018
- QUANTUM\_OF\_CIRCULATION\_2018
- QUANTUM\_OF\_CIRCULATION\_TIMES\_2\_2018
- REDUCED\_COMPTON\_WAVELENGTH\_2018
- REDUCED\_MUON\_COMPTON\_WAVELENGTH\_2018
- REDUCED\_NEUTRON\_COMPTON\_WAVELENGTH\_2018
- REDUCED\_PLANCK\_CONSTANT\_2018
- REDUCED\_PLANCK\_CONSTANT\_IN\_EV\_S\_2018
- REDUCED\_PLANCK\_CONSTANT\_TIMES\_C\_IN\_MEV\_FM\_2018
- REDUCED\_PROTON\_COMPTON\_WAVELENGTH\_2018
- REDUCED\_TAU\_COMPTON\_WAVELENGTH\_2018
- RYDBERG\_CONSTANT\_2018
- RYDBERG\_CONSTANT\_TIMES\_C\_IN\_HZ\_2018
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_EV\_2018
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_J\_2018
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_100\_KPA\_2018
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_101\_325\_KPA\_2018
- SECOND\_RADIATION\_CONSTANT\_2018
- SHIELDED\_HELIION\_GYROMAG\_RATIO\_2018
- SHIELDED\_HELIION\_GYROMAG\_RATIO\_IN\_MHZ\_T\_2018
- SHIELDED\_HELIION\_MAG\_MOM\_2018
- SHIELDED\_HELIION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- SHIELDED\_HELIION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- SHIELDED\_HELIION\_TO\_PROTON\_MAG\_MOM\_RATIO\_2018
- SHIELDED\_HELIION\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2018
- SHIELDED\_PROTON\_GYROMAG\_RATIO\_2018
- SHIELDED\_PROTON\_GYROMAG\_RATIO\_IN\_MHZ\_T\_2018
- SHIELDED\_PROTON\_MAG\_MOM\_2018

- SHIELDED\_PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- SHIELDED\_PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- SHIELDING\_DIFFERENCE\_OF\_D\_AND\_P\_IN\_HD\_2018
- SHIELDING\_DIFFERENCE\_OF\_T\_AND\_P\_IN\_HT\_2018
- SPEED\_OF\_LIGHT\_IN\_VACUUM\_2018
- STANDARD\_ACCELERATION\_OF\_GRAVITY\_2018
- STANDARD\_ATMOSPHERE\_2018
- STANDARD\_STATE\_PRESSURE\_2018
- STEFAN\_BOLTZMANN\_CONSTANT\_2018
- TAU\_COMPTON\_WAVELENGTH\_2018
- TAU\_ELECTRON\_MASS\_RATIO\_2018
- TAU\_ENERGY\_EQUIVALENT\_2018
- TAU\_MASS\_2018
- TAU\_MASS\_ENERGY\_EQUIVALENT\_2018
- TAU\_MASS\_IN\_U\_2018
- TAU\_MOLAR\_MASS\_2018
- TAU\_MUON\_MASS\_RATIO\_2018
- TAU\_NEUTRON\_MASS\_RATIO\_2018
- TAU\_PROTON\_MASS\_RATIO\_2018
- THOMSON\_CROSS\_SECTION\_2018
- TRITON\_ELECTRON\_MASS\_RATIO\_2018
- TRITON\_G\_FACTOR\_2018
- TRITON\_MAG\_MOM\_2018
- TRITON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2018
- TRITON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2018
- TRITON\_MASS\_2018
- TRITON\_MASS\_ENERGY\_EQUIVALENT\_2018
- TRITON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2018
- TRITON\_MASS\_IN\_U\_2018
- TRITON\_MOLAR\_MASS\_2018
- TRITON\_PROTON\_MASS\_RATIO\_2018
- TRITON\_RELATIVE\_ATOMIC\_MASS\_2018
- TRITON\_TO\_PROTON\_MAG\_MOM\_RATIO\_2018
- UNIFIED\_ATOMIC\_MASS\_UNIT\_2018
- VACUUM\_ELECTRIC\_PERMITTIVITY\_2018
- VACUUM\_MAG\_PERMEABILITY\_2018
- VON\_KLITZING\_CONSTANT\_2018
- WEAK\_MIXING\_ANGLE\_2018

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- WIEN\_FREQUENCY\_DISPLACEMENT\_LAW\_CONSTANT\_2018
- WIEN\_WAVELENGTH\_DISPLACEMENT\_LAW\_CONSTANT\_2018
- W\_TO\_Z\_MASS\_RATIO\_2018

#### CODATA 2014

- LATTICE\_SPACING\_OF\_SILICON\_2014
- ALPHA\_PARTICLE\_ELECTRON\_MASS\_RATIO\_2014
- ALPHA\_PARTICLE\_MASS\_2014
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_2014
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- ALPHA\_PARTICLE\_MASS\_IN\_U\_2014
- ALPHA\_PARTICLE\_MOLAR\_MASS\_2014
- ALPHA\_PARTICLE\_PROTON\_MASS\_RATIO\_2014
- ANGSTROM\_STAR\_2014
- ATOMIC\_MASS\_CONSTANT\_2014
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_2014
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- ATOMIC\_MASS\_UNIT\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_HARTREE\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_HERTZ\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_INVERSE\_METER\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_JOULE\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_KELVIN\_RELATIONSHIP\_2014
- ATOMIC\_MASS\_UNIT\_KILOGRAM\_RELATIONSHIP\_2014
- ATOMIC\_UNIT\_OF\_1ST\_HYPERPOLARIZABILITY\_2014
- ATOMIC\_UNIT\_OF\_2ND\_HYPERPOLARIZABILITY\_2014
- ATOMIC\_UNIT\_OF\_ACTION\_2014
- ATOMIC\_UNIT\_OF\_CHARGE\_2014
- ATOMIC\_UNIT\_OF\_CHARGE\_DENSITY\_2014
- ATOMIC\_UNIT\_OF\_CURRENT\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_DIPOLE\_MOM\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_FIELD\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_FIELD\_GRADIENT\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_POLARIZABILITY\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_POTENTIAL\_2014
- ATOMIC\_UNIT\_OF ELECTRIC\_QUADRUPOLE\_MOM\_2014
- ATOMIC\_UNIT\_OF ENERGY\_2014
- ATOMIC\_UNIT\_OF FORCE\_2014
- ATOMIC\_UNIT\_OF LENGTH\_2014

- ATOMIC\_UNIT\_OF\_MAG\_DIPOLE\_MOM\_2014
- ATOMIC\_UNIT\_OF\_MAG\_FLUX\_DENSITY\_2014
- ATOMIC\_UNIT\_OF\_MAGNETIZABILITY\_2014
- ATOMIC\_UNIT\_OF\_MASS\_2014
- ATOMIC\_UNIT\_OF\_MOMUM\_2014
- ATOMIC\_UNIT\_OF\_PERMITTIVITY\_2014
- ATOMIC\_UNIT\_OF\_TIME\_2014
- ATOMIC\_UNIT\_OF\_VELOCITY\_2014
- AVOGADRO\_CONSTANT\_2014
- BOHR\_MAGNETON\_2014
- BOHR\_MAGNETON\_IN\_EV\_T\_2014
- BOHR\_MAGNETON\_IN\_HZ\_T\_2014
- BOHR\_MAGNETON\_IN\_INVERSE\_METERS\_PER\_TESLA\_2014
- BOHR\_MAGNETON\_IN\_K\_T\_2014
- BOHR\_RADIUS\_2014
- BOLTZMANN\_CONSTANT\_2014
- BOLTZMANN\_CONSTANT\_IN\_EV\_K\_2014
- BOLTZMANN\_CONSTANT\_IN\_HZ\_K\_2014
- BOLTZMANN\_CONSTANT\_IN\_INVERSE\_METERS\_PER\_KELVIN\_2014
- CHARACTERISTIC\_IMPEDANCE\_OF\_VACUUM\_2014
- CLASSICAL\_ELECTRON\_RADIUS\_2014
- COMPTON\_WAVELENGTH\_2014
- COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2014
- CONDUCTANCE\_QUANTUM\_2014
- CONVENTIONAL\_VALUE\_OF\_JOSEPHSON\_CONSTANT\_2014
- CONVENTIONAL\_VALUE\_OF\_VON\_KLITZING\_CONSTANT\_2014
- CU\_X\_UNIT\_2014
- DEUTERON\_ELECTRON\_MAG\_MOM\_RATIO\_2014
- DEUTERON\_ELECTRON\_MASS\_RATIO\_2014
- DEUTERON\_G\_FACTOR\_2014
- DEUTERON\_MAG\_MOM\_2014
- DEUTERON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- DEUTERON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- DEUTERON\_MASS\_2014
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_2014
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- DEUTERON\_MASS\_IN\_U\_2014
- DEUTERON\_MOLAR\_MASS\_2014

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- DEUTERON\_NEUTRON\_MAG\_MOM\_RATIO\_2014
- DEUTERON\_PROTON\_MAG\_MOM\_RATIO\_2014
- DEUTERON\_PROTON\_MASS\_RATIO\_2014
- DEUTERON\_RMS\_CHARGE\_RADIUS\_2014
- ELECTRIC\_CONSTANT\_2014
- ELECTRON\_CHARGE\_TO\_MASS\_QUOTIENT\_2014
- ELECTRON\_DEUTERON\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_DEUTERON\_MASS\_RATIO\_2014
- ELECTRON\_G\_FACTOR\_2014
- ELECTRON\_GYROMAG\_RATIO\_2014
- ELECTRON\_GYROMAG\_RATIO\_OVER\_2\_PI\_2014
- ELECTRON\_HELION\_MASS\_RATIO\_2014
- ELECTRON\_MAG\_MOM\_2014
- ELECTRON\_MAG\_MOM\_ANOMALY\_2014
- ELECTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- ELECTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- ELECTRON\_MASS\_2014
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_2014
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- ELECTRON\_MASS\_IN\_U\_2014
- ELECTRON\_MOLAR\_MASS\_2014
- ELECTRON\_MUON\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_MUON\_MASS\_RATIO\_2014
- ELECTRON\_NEUTRON\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_NEUTRON\_MASS\_RATIO\_2014
- ELECTRON\_PROTON\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_PROTON\_MASS\_RATIO\_2014
- ELECTRON\_TAU\_MASS\_RATIO\_2014
- ELECTRON\_TO\_ALPHA\_PARTICLE\_MASS\_RATIO\_2014
- ELECTRON\_TO\_SHIELDED\_HELIUM\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2014
- ELECTRON\_TRITON\_MASS\_RATIO\_2014
- ELECTRON\_VOLT\_2014
- ELECTRON\_VOLT\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- ELECTRON\_VOLT\_HARTREE\_RELATIONSHIP\_2014
- ELECTRON\_VOLT\_HERTZ\_RELATIONSHIP\_2014
- ELECTRON\_VOLT\_INVERSE\_METER\_RELATIONSHIP\_2014
- ELECTRON\_VOLT\_JOULE\_RELATIONSHIP\_2014

- ELECTRON\_VOLT\_KELVIN\_RELATIONSHIP\_2014
- ELECTRON\_VOLT\_KILOGRAM\_RELATIONSHIP\_2014
- ELEMENTARY\_CHARGE\_2014
- ELEMENTARY\_CHARGE\_OVER\_H\_2014
- FARADAY\_CONSTANT\_2014
- FARADAY\_CONSTANT\_FOR\_CONVENTIONAL\_ELECTRIC\_CURRENT\_2014
- FERMI\_COUPLING\_CONSTANT\_2014
- FINE\_STRUCTURE\_CONSTANT\_2014
- FIRST\_RADIATION\_CONSTANT\_2014
- FIRST\_RADIATION\_CONSTANT\_FOR\_SPECTRAL\_RADIANC\_2014
- HARTREE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- HARTREE\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- HARTREE\_ENERGY\_2014
- HARTREE\_ENERGY\_IN\_EV\_2014
- HARTREE\_HERTZ\_RELATIONSHIP\_2014
- HARTREE\_INVERSE\_METER\_RELATIONSHIP\_2014
- HARTREE\_JOULE\_RELATIONSHIP\_2014
- HARTREE\_KELVIN\_RELATIONSHIP\_2014
- HARTREE\_KILOGRAM\_RELATIONSHIP\_2014
- HELION\_ELECTRON\_MASS\_RATIO\_2014
- HELION\_G\_FACTOR\_2014
- HELION\_MAG\_MOM\_2014
- HELION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- HELION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- HELION\_MASS\_2014
- HELION\_MASS\_ENERGY\_EQUIVALENT\_2014
- HELION\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- HELION\_MASS\_IN\_U\_2014
- HELION\_MOLAR\_MASS\_2014
- HELION\_PROTON\_MASS\_RATIO\_2014
- HERTZ\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- HERTZ\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- HERTZ\_HARTREE\_RELATIONSHIP\_2014
- HERTZ\_INVERSE\_METER\_RELATIONSHIP\_2014
- HERTZ\_JOULE\_RELATIONSHIP\_2014
- HERTZ\_KELVIN\_RELATIONSHIP\_2014
- HERTZ\_KILOGRAM\_RELATIONSHIP\_2014
- INVERSE\_FINE\_STRUCTURE\_CONSTANT\_2014

- INVERSE\_METER\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- INVERSE\_METER\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- INVERSE\_METER\_HARTREE\_RELATIONSHIP\_2014
- INVERSE\_METER\_HERTZ\_RELATIONSHIP\_2014
- INVERSE\_METER\_JOULE\_RELATIONSHIP\_2014
- INVERSE\_METER\_KELVIN\_RELATIONSHIP\_2014
- INVERSE\_METER\_KILOGRAM\_RELATIONSHIP\_2014
- INVERSE\_OF\_CONDUCTANCE\_QUANTUM\_2014
- JOSEPHSON\_CONSTANT\_2014
- JOULE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- JOULE\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- JOULE\_HARTREE\_RELATIONSHIP\_2014
- JOULE\_HERTZ\_RELATIONSHIP\_2014
- JOULE\_INVERSE\_METER\_RELATIONSHIP\_2014
- JOULE\_KELVIN\_RELATIONSHIP\_2014
- JOULE\_KILOGRAM\_RELATIONSHIP\_2014
- KELVIN\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- KELVIN\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- KELVIN\_HARTREE\_RELATIONSHIP\_2014
- KELVIN\_HERTZ\_RELATIONSHIP\_2014
- KELVIN\_INVERSE\_METER\_RELATIONSHIP\_2014
- KELVIN\_JOULE\_RELATIONSHIP\_2014
- KELVIN\_KILOGRAM\_RELATIONSHIP\_2014
- KILOGRAM\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2014
- KILOGRAM\_ELECTRON\_VOLT\_RELATIONSHIP\_2014
- KILOGRAM\_HARTREE\_RELATIONSHIP\_2014
- KILOGRAM\_HERTZ\_RELATIONSHIP\_2014
- KILOGRAM\_INVERSE\_METER\_RELATIONSHIP\_2014
- KILOGRAM\_JOULE\_RELATIONSHIP\_2014
- KILOGRAM\_KELVIN\_RELATIONSHIP\_2014
- LATTICE\_PARAMETER\_OF\_SILICON\_2014
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_100\_KPA\_2014
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_101\_325\_KPA\_2014
- MAG\_CONSTANT\_2014
- MAG\_FLUX\_QUANTUM\_2014
- MOLAR\_GAS\_CONSTANT\_2014
- MOLAR\_MASS\_CONSTANT\_2014
- MOLAR\_MASS\_OF\_CARBON\_12\_2014

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- MOLAR\_PLANCK\_CONSTANT\_2014
- MOLAR\_PLANCK\_CONSTANT\_TIMES\_C\_2014
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_100\_KPA\_2014
- MOLAR\_VOLUME\_OF\_IDEAL\_GAS\_273\_15\_K\_101\_325\_KPA\_2014
- MOLAR\_VOLUME\_OF\_SILICON\_2014
- MO\_X\_UNIT\_2014
- MUON\_COMPTON\_WAVELENGTH\_2014
- MUON\_COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2014
- MUON\_ELECTRON\_MASS\_RATIO\_2014
- MUON\_G\_FACTOR\_2014
- MUON\_MAG\_MOM\_2014
- MUON\_MAG\_MOM\_ANOMALY\_2014
- MUON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- MUON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- MUON\_MASS\_2014
- MUON\_MASS\_ENERGY\_EQUIVALENT\_2014
- MUON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- MUON\_MASS\_IN\_U\_2014
- MUON\_MOLAR\_MASS\_2014
- MUON\_NEUTRON\_MASS\_RATIO\_2014
- MUON\_PROTON\_MAG\_MOM\_RATIO\_2014
- MUON\_PROTON\_MASS\_RATIO\_2014
- MUON\_TAU\_MASS\_RATIO\_2014
- NATURAL\_UNIT\_OF\_ACTION\_2014
- NATURAL\_UNIT\_OF\_ACTION\_IN\_EV\_S\_2014
- NATURAL\_UNIT\_OF\_ENERGY\_2014
- NATURAL\_UNIT\_OF\_ENERGY\_IN\_MEV\_2014
- NATURAL\_UNIT\_OF\_LENGTH\_2014
- NATURAL\_UNIT\_OF\_MASS\_2014
- NATURAL\_UNIT\_OF\_MOMUM\_2014
- NATURAL\_UNIT\_OF\_MOMUM\_IN\_MEV\_C\_2014
- NATURAL\_UNIT\_OF\_TIME\_2014
- NATURAL\_UNIT\_OF\_VELOCITY\_2014
- NEUTRON\_COMPTON\_WAVELENGTH\_2014
- NEUTRON\_COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2014
- NEUTRON\_ELECTRON\_MAG\_MOM\_RATIO\_2014
- NEUTRON\_ELECTRON\_MASS\_RATIO\_2014
- NEUTRON\_G\_FACTOR\_2014

- NEUTRON\_GYROMAG\_RATIO\_2014
- NEUTRON\_GYROMAG\_RATIO\_OVER\_2\_PI\_2014
- NEUTRON\_MAG\_MOM\_2014
- NEUTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- NEUTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- NEUTRON\_MASS\_2014
- NEUTRON\_MASS\_ENERGY\_EQUIVALENT\_2014
- NEUTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- NEUTRON\_MASS\_IN\_U\_2014
- NEUTRON\_MOLAR\_MASS\_2014
- NEUTRON\_MUON\_MASS\_RATIO\_2014
- NEUTRON\_PROTON\_MAG\_MOM\_RATIO\_2014
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_2014
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT\_2014
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- NEUTRON\_PROTON\_MASS\_DIFFERENCE\_IN\_U\_2014
- NEUTRON\_PROTON\_MASS\_RATIO\_2014
- NEUTRON\_TAU\_MASS\_RATIO\_2014
- NEUTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2014
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION\_2014
- NEWTONIAN\_CONSTANT\_OF\_GRAVITATION\_OVER\_H\_BAR\_C\_2014
- NUCLEAR\_MAGNETON\_2014
- NUCLEAR\_MAGNETON\_IN\_EV\_T\_2014
- NUCLEAR\_MAGNETON\_IN\_INVERSE\_METERS\_PER\_TESLA\_2014
- NUCLEAR\_MAGNETON\_IN\_K\_T\_2014
- NUCLEAR\_MAGNETON\_IN\_MHZ\_T\_2014
- PLANCK\_CONSTANT\_2014
- PLANCK\_CONSTANT\_IN\_EV\_S\_2014
- PLANCK\_CONSTANT\_OVER\_2\_PI\_2014
- PLANCK\_CONSTANT\_OVER\_2\_PI\_IN\_EV\_S\_2014
- PLANCK\_CONSTANT\_OVER\_2\_PI\_TIMES\_C\_IN\_MEV\_FM\_2014
- PLANCK\_LENGTH\_2014
- PLANCK\_MASS\_2014
- PLANCK\_MASS\_ENERGY\_EQUIVALENT\_IN\_GEV\_2014
- PLANCK\_TEMPERATURE\_2014
- PLANCK\_TIME\_2014
- PROTON\_CHARGE\_TO\_MASS\_QUOTIENT\_2014
- PROTON\_COMPTON\_WAVELENGTH\_2014

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- PROTON\_COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2014
- PROTON\_ELECTRON\_MASS\_RATIO\_2014
- PROTON\_G\_FACTOR\_2014
- PROTON\_GYROMAG\_RATIO\_2014
- PROTON\_GYROMAG\_RATIO\_OVER\_2\_PI\_2014
- PROTON\_MAG\_MOM\_2014
- PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- PROTON\_MAG\_SHIELDING\_CORRECTION\_2014
- PROTON\_MASS\_2014
- PROTON\_MASS\_ENERGY\_EQUIVALENT\_2014
- PROTON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- PROTON\_MASS\_IN\_U\_2014
- PROTON\_MOLAR\_MASS\_2014
- PROTON\_MUON\_MASS\_RATIO\_2014
- PROTON\_NEUTRON\_MAG\_MOM\_RATIO\_2014
- PROTON\_NEUTRON\_MASS\_RATIO\_2014
- PROTON\_RMS\_CHARGE\_RADIUS\_2014
- PROTON\_TAU\_MASS\_RATIO\_2014
- QUANTUM\_OF\_CIRCULATION\_2014
- QUANTUM\_OF\_CIRCULATION\_TIMES\_2\_2014
- RYDBERG\_CONSTANT\_2014
- RYDBERG\_CONSTANT\_TIMES\_C\_IN\_HZ\_2014
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_EV\_2014
- RYDBERG\_CONSTANT\_TIMES\_HC\_IN\_J\_2014
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_100\_KPA\_2014
- SACKUR\_TETRODE\_CONSTANT\_1\_K\_101\_325\_KPA\_2014
- SECOND\_RADIATION\_CONSTANT\_2014
- SHIELDED\_HELIION\_GYROMAG\_RATIO\_2014
- SHIELDED\_HELIION\_GYROMAG\_RATIO\_OVER\_2\_PI\_2014
- SHIELDED\_HELIION\_MAG\_MOM\_2014
- SHIELDED\_HELIION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- SHIELDED\_HELIION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- SHIELDED\_HELIION\_TO\_PROTON\_MAG\_MOM\_RATIO\_2014
- SHIELDED\_HELIION\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2014
- SHIELDED\_PROTON\_GYROMAG\_RATIO\_2014
- SHIELDED\_PROTON\_GYROMAG\_RATIO\_OVER\_2\_PI\_2014
- SHIELDED\_PROTON\_MAG\_MOM\_2014

- SHIELDED\_PROTON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- SHIELDED\_PROTON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- SPEED\_OF\_LIGHT\_IN\_VACUUM\_2014
- STANDARD\_ACCELERATION\_OF\_GRAVITY\_2014
- STANDARD\_ATMOSPHERE\_2014
- STANDARD\_STATE\_PRESSURE\_2014
- STEFAN\_BOLTZMANN\_CONSTANT\_2014
- TAU\_COMPTON\_WAVELENGTH\_2014
- TAU\_COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2014
- TAU\_ELECTRON\_MASS\_RATIO\_2014
- TAU\_MASS\_2014
- TAU\_MASS\_ENERGY\_EQUIVALENT\_2014
- TAU\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- TAU\_MASS\_IN\_U\_2014
- TAU\_MOLAR\_MASS\_2014
- TAU\_MUON\_MASS\_RATIO\_2014
- TAU\_NEUTRON\_MASS\_RATIO\_2014
- TAU\_PROTON\_MASS\_RATIO\_2014
- THOMSON\_CROSS\_SECTION\_2014
- TRITON\_ELECTRON\_MASS\_RATIO\_2014
- TRITON\_G\_FACTOR\_2014
- TRITON\_MAG\_MOM\_2014
- TRITON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2014
- TRITON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2014
- TRITON\_MASS\_2014
- TRITON\_MASS\_ENERGY\_EQUIVALENT\_2014
- TRITON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2014
- TRITON\_MASS\_IN\_U\_2014
- TRITON\_MOLAR\_MASS\_2014
- TRITON\_PROTON\_MASS\_RATIO\_2014
- UNIFIED\_ATOMIC\_MASS\_UNIT\_2014
- VON\_KLITZING\_CONSTANT\_2014
- WEAK\_MIXING\_ANGLE\_2014
- WIEN\_FREQUENCY\_DISPLACEMENT\_LAW\_CONSTANT\_2014
- WIEN\_WAVELENGTH\_DISPLACEMENT\_LAW\_CONSTANT\_2014

**CODATA 2010**

- LATTICE\_SPACING\_OF\_SILICON\_2010
- ALPHA\_PARTICLE\_ELECTRON\_MASS\_RATIO\_2010

- ALPHA\_PARTICLE\_MASS\_2010
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_2010
- ALPHA\_PARTICLE\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2010
- ALPHA\_PARTICLE\_MASS\_IN\_U\_2010
- ALPHA\_PARTICLE\_MOLAR\_MASS\_2010
- ALPHA\_PARTICLE\_PROTON\_MASS\_RATIO\_2010
- ANGSTROM\_STAR\_2010
- ATOMIC\_MASS\_CONSTANT\_2010
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_2010
- ATOMIC\_MASS\_CONSTANT\_ENERGY\_EQUIVALENT\_IN\_MEV\_2010
- ATOMIC\_MASS\_UNIT\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_HARTREE\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_HERTZ\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_INVERSE\_METER\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_JOULE\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_KELVIN\_RELATIONSHIP\_2010
- ATOMIC\_MASS\_UNIT\_KILOGRAM\_RELATIONSHIP\_2010
- ATOMIC\_UNIT\_OF\_1ST\_HYPERPOLARIZABILITY\_2010
- ATOMIC\_UNIT\_OF\_2ND\_HYPERPOLARIZABILITY\_2010
- ATOMIC\_UNIT\_OF\_ACTION\_2010
- ATOMIC\_UNIT\_OF\_CHARGE\_2010
- ATOMIC\_UNIT\_OF\_CHARGE\_DENSITY\_2010
- ATOMIC\_UNIT\_OF\_CURRENT\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_DIPOLE\_MOM\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_FIELD\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_FIELD\_GRADIENT\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_POLARIZABILITY\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_POTENTIAL\_2010
- ATOMIC\_UNIT\_OF ELECTRIC\_QUADRUPOLE\_MOM\_2010
- ATOMIC\_UNIT\_OF ENERGY\_2010
- ATOMIC\_UNIT\_OF\_FORCE\_2010
- ATOMIC\_UNIT\_OF\_LENGTH\_2010
- ATOMIC\_UNIT\_OF\_MAG\_DIPOLE\_MOM\_2010
- ATOMIC\_UNIT\_OF\_MAG\_FLUX\_DENSITY\_2010
- ATOMIC\_UNIT\_OF\_MAGNETIZABILITY\_2010
- ATOMIC\_UNIT\_OF\_MASS\_2010
- ATOMIC\_UNIT\_OF\_MOMUM\_2010
- ATOMIC\_UNIT\_OF\_PERMITTIVITY\_2010

- ATOMIC\_UNIT\_OF\_TIME\_2010
- ATOMIC\_UNIT\_OF\_VELOCITY\_2010
- AVOGADRO\_CONSTANT\_2010
- BOHR\_MAGNETON\_2010
- BOHR\_MAGNETON\_IN\_EV\_T\_2010
- BOHR\_MAGNETON\_IN\_HZ\_T\_2010
- BOHR\_MAGNETON\_IN\_INVERSE\_METERS\_PER\_TESLA\_2010
- BOHR\_MAGNETON\_IN\_K\_T\_2010
- BOHR\_RADIUS\_2010
- BOLTZMANN\_CONSTANT\_2010
- BOLTZMANN\_CONSTANT\_IN\_EV\_K\_2010
- BOLTZMANN\_CONSTANT\_IN\_HZ\_K\_2010
- BOLTZMANN\_CONSTANT\_IN\_INVERSE\_METERS\_PER\_KELVIN\_2010
- CHARACTERISTIC\_IMPEDANCE\_OF\_VACUUM\_2010
- CLASSICAL\_ELECTRON\_RADIUS\_2010
- COMPTON\_WAVELENGTH\_2010
- COMPTON\_WAVELENGTH\_OVER\_2\_PI\_2010
- CONDUCTANCE\_QUANTUM\_2010
- CONVENTIONAL\_VALUE\_OF\_JOSEPHSON\_CONSTANT\_2010
- CONVENTIONAL\_VALUE\_OF\_VON\_KLITZING\_CONSTANT\_2010
- CU\_X\_UNIT\_2010
- DEUTERON\_ELECTRON\_MAG\_MOM\_RATIO\_2010
- DEUTERON\_ELECTRON\_MASS\_RATIO\_2010
- DEUTERON\_G\_FACTOR\_2010
- DEUTERON\_MAG\_MOM\_2010
- DEUTERON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2010
- DEUTERON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2010
- DEUTERON\_MASS\_2010
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_2010
- DEUTERON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2010
- DEUTERON\_MASS\_IN\_U\_2010
- DEUTERON\_MOLAR\_MASS\_2010
- DEUTERON\_NEUTRON\_MAG\_MOM\_RATIO\_2010
- DEUTERON\_PROTON\_MAG\_MOM\_RATIO\_2010
- DEUTERON\_PROTON\_MASS\_RATIO\_2010
- DEUTERON\_RMS\_CHARGE\_RADIUS\_2010
- ELECTRIC\_CONSTANT\_2010
- ELECTRON\_CHARGE\_TO\_MASS\_QUOTIENT\_2010

- ELECTRON\_DEUTERON\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_DEUTERON\_MASS\_RATIO\_2010
- ELECTRON\_G\_FACTOR\_2010
- ELECTRON\_GYROMAG\_RATIO\_2010
- ELECTRON\_GYROMAG\_RATIO\_OVER\_2\_PI\_2010
- ELECTRON\_HELION\_MASS\_RATIO\_2010
- ELECTRON\_MAG\_MOM\_2010
- ELECTRON\_MAG\_MOM\_ANOMALY\_2010
- ELECTRON\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2010
- ELECTRON\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2010
- ELECTRON\_MASS\_2010
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_2010
- ELECTRON\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2010
- ELECTRON\_MASS\_IN\_U\_2010
- ELECTRON\_MOLAR\_MASS\_2010
- ELECTRON\_MUON\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_MUON\_MASS\_RATIO\_2010
- ELECTRON\_NEUTRON\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_NEUTRON\_MASS\_RATIO\_2010
- ELECTRON\_PROTON\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_PROTON\_MASS\_RATIO\_2010
- ELECTRON\_TAU\_MASS\_RATIO\_2010
- ELECTRON\_TO\_ALPHA\_PARTICLE\_MASS\_RATIO\_2010
- ELECTRON\_TO\_SHIELDED\_HELIUM\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_TO\_SHIELDED\_PROTON\_MAG\_MOM\_RATIO\_2010
- ELECTRON\_TRITON\_MASS\_RATIO\_2010
- ELECTRON\_VOLT\_2010
- ELECTRON\_VOLT\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_HARTREE\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_HERTZ\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_INVERSE\_METER\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_JOULE\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_KELVIN\_RELATIONSHIP\_2010
- ELECTRON\_VOLT\_KILOGRAM\_RELATIONSHIP\_2010
- ELEMENTARY\_CHARGE\_2010
- ELEMENTARY\_CHARGE\_OVER\_H\_2010
- FARADAY\_CONSTANT\_2010
- FARADAY\_CONSTANT\_FOR\_CONVENTIONAL\_ELECTRIC\_CURRENT\_2010

- FERMI\_COUPLING\_CONSTANT\_2010
- FINE\_STRUCTURE\_CONSTANT\_2010
- FIRST\_RADIATION\_CONSTANT\_2010
- FIRST\_RADIATION\_CONSTANT\_FOR\_SPECTRAL\_RADIANCE\_2010
- HARTREE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- HARTREE\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- HARTREE\_ENERGY\_2010
- HARTREE\_ENERGY\_IN\_EV\_2010
- HARTREE\_HERTZ\_RELATIONSHIP\_2010
- HARTREE\_INVERSE\_METER\_RELATIONSHIP\_2010
- HARTREE\_JOULE\_RELATIONSHIP\_2010
- HARTREE\_KELVIN\_RELATIONSHIP\_2010
- HARTREE\_KILOGRAM\_RELATIONSHIP\_2010
- HELION\_ELECTRON\_MASS\_RATIO\_2010
- HELION\_G\_FACTOR\_2010
- HELION\_MAG\_MOM\_2010
- HELION\_MAG\_MOM\_TO\_BOHR\_MAGNETON\_RATIO\_2010
- HELION\_MAG\_MOM\_TO\_NUCLEAR\_MAGNETON\_RATIO\_2010
- HELION\_MASS\_2010
- HELION\_MASS\_ENERGY\_EQUIVALENT\_2010
- HELION\_MASS\_ENERGY\_EQUIVALENT\_IN\_MEV\_2010
- HELION\_MASS\_IN\_U\_2010
- HELION\_MOLAR\_MASS\_2010
- HELION\_PROTON\_MASS\_RATIO\_2010
- HERTZ\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- HERTZ\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- HERTZ\_HARTREE\_RELATIONSHIP\_2010
- HERTZ\_INVERSE\_METER\_RELATIONSHIP\_2010
- HERTZ\_JOULE\_RELATIONSHIP\_2010
- HERTZ\_KELVIN\_RELATIONSHIP\_2010
- HERTZ\_KILOGRAM\_RELATIONSHIP\_2010
- INVERSE\_FINE\_STRUCTURE\_CONSTANT\_2010
- INVERSE\_METER\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- INVERSE\_METER\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- INVERSE\_METER\_HARTREE\_RELATIONSHIP\_2010
- INVERSE\_METER\_HERTZ\_RELATIONSHIP\_2010
- INVERSE\_METER\_JOULE\_RELATIONSHIP\_2010
- INVERSE\_METER\_KELVIN\_RELATIONSHIP\_2010

- INVERSE\_METER\_KILOGRAM\_RELATIONSHIP\_2010
- INVERSE\_OF\_CONDUCTANCE\_QUANTUM\_2010
- JOSEPHSON\_CONSTANT\_2010
- JOULE\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- JOULE\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- JOULE\_HARTREE\_RELATIONSHIP\_2010
- JOULE\_HERTZ\_RELATIONSHIP\_2010
- JOULE\_INVERSE\_METER\_RELATIONSHIP\_2010
- JOULE\_KELVIN\_RELATIONSHIP\_2010
- JOULE\_KILOGRAM\_RELATIONSHIP\_2010
- KELVIN\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- KELVIN\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- KELVIN\_HARTREE\_RELATIONSHIP\_2010
- KELVIN\_HERTZ\_RELATIONSHIP\_2010
- KELVIN\_INVERSE\_METER\_RELATIONSHIP\_2010
- KELVIN\_JOULE\_RELATIONSHIP\_2010
- KELVIN\_KILOGRAM\_RELATIONSHIP\_2010
- KILOGRAM\_ATOMIC\_MASS\_UNIT\_RELATIONSHIP\_2010
- KILOGRAM\_ELECTRON\_VOLT\_RELATIONSHIP\_2010
- KILOGRAM\_HARTREE\_RELATIONSHIP\_2010
- KILOGRAM\_HERTZ\_RELATIONSHIP\_2010
- KILOGRAM\_INVERSE\_METER\_RELATIONSHIP\_2010
- KILOGRAM\_JOULE\_RELATIONSHIP\_2010
- KILOGRAM\_KELVIN\_RELATIONSHIP\_2010
- LATTICE\_PARAMETER\_OF\_SILICON\_2010
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_100\_KPA\_2010
- LOSCHMIDT\_CONSTANT\_273\_15\_K\_101\_325\_KPA\_2010
- MAG\_CONSTANT\_2010
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