codata
Release 2.3.2dev0

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CONTENTS

Modern Fortran
CODATA

Fundamental physical constants for Modern Fortran according to CODATA.

GETTING STARTED

1.1 Introduction

`codata` is a Fortran library providing the fundamental physical constants according to CODATA. A C API allows usage from C, or can be used as a basis for other wrappers. Python wrapper allows easy usage from Python.

To use `codata` within your fpm project, add the following to your `fpm.toml` file:

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

The latest codata constants (2022) were integrated in stdlib. The constants are implemented as derived type which carries the name, the value, the uncertainty and the unit. This library will be complementary to the constants defined in the `stdlib` by providing older values for the constants.

If you only need sources for the codata constants that you can integrate directly in your sources you may be interested by https://github.com/vmagnin/fundamental_constants.

1.2 Dependencies

```
gfortran>=10
fpm>=0.8
stdlib>=0.5
fypp>=3.0
```

1.3 Installation

A Makefile is provided, which uses fpm, for building the library.

- On windows, msys2 needs to be installed. Add the msys2 binary (usually C:\msys64\usr\bin) to the path in order to be able to use make.
- On Darwin, the gcc toolchain needs to be installed.

Build: the configuration file will set all the environment variables necessary for the compilation

```
chmod +x configure.sh
./configure.sh
make
make install
make uninstall
```

1.4 License

MIT

EXAMPLES

2.1 Fortran

```fortran
! 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
```

2.2 C

```c
/* EXAMPLE IN C */
#include <stdio.h>
#include "codata.h"

int main(void){

    printf("########## EXAMPLE IN C ##########\n");
```

```c
    printf("%s\n","# VERSION");
    printf("version = %s\n", codata_get_version());

    printf("%s\n","# CONSTANTS");
    printf("c = %f\n", SPEED_OF_LIGHT_IN_VACUUM.value);

    printf("%s\n","# UNCERTAINTY");
    printf("u(c) = %f\n", SPEED_OF_LIGHT_IN_VACUUM.uncertainty);

    printf("%s\n","# OLDER VALUES");
    printf("Mu_2022(latest) = %23.16f\n", MOLAR_MASS_CONSTANT.value);
    printf("Mu_2018 = %23.16f\n", MOLAR_MASS_CONSTANT_2018.value);
    printf("Mu_2014 = %23.16f\n", MOLAR_MASS_CONSTANT_2014.value);
    printf("Mu_2010 = %23.16f\n", MOLAR_MASS_CONSTANT_2010.value);

    return 0;
}
```

2.3 Python

```python
sys.path.insert(0, "../py/src/")
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.constants_2018.MOLAR_MASS_CONSTANT_2018["value"])
print(f"Mu_2014 = ", pycodata.constants_2014.MOLAR_MASS_CONSTANT_2014["value"])
print(f"Mu_2010 = ", pycodata.constants_2010.MOLAR_MASS_CONSTANT_2010["value"])
```

APIS

3.1 Fortran

https://milanskocic.github.io/codata/ford/index.html

3.2 C

```c
#ifndef CODATA_H
#define CODATA_H
#if _MSC_VER
#define ADD_IMPORT __declspec(dllimport)
#else
#define ADD_IMPORT
#endif

extern char* codata_get_version(void);

typedef struct codata_constant_type{
    char name[65];
    double value;
    double uncertainty;
    char unit[33];
}cct;
```

```c
ADD_IMPORT extern const int YEAR_2010;
ADD_IMPORT extern const cct LATTICE_SPACING_OF_SILICON_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_IN_U_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MOLAR_MASS_2010;
ADD_IMPORT extern const cct ALPHA_PARTICLE_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ANGSTROM_STAR_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HERTZ_RELATIONSHIP_2010;
```

```
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_1ST_HYPERPOLARIZABILITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_2ND_HYPERPOLARIZABILITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ACTION_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_DENSITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CURRENT_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_DIPOLE_MOM_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_GRADIENT_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POLARIZABILITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POTENTIAL_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_QUADRUPOLE_MOM_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ENERGY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_FORCE_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_LENGTH_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_DIPOLE_MOM_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_FLUX_DENSITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAGNETIZABILITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MASS_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MOMUM_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_PERMITTIVITY_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_TIME_2010;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_VELOCITY_2010;
ADD_IMPORT extern const cct AVOGADRO_CONSTANT_2010;
ADD_IMPORT extern const cct BOHR_MAGNETON_2010;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_EV_T_2010;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_HZ_T_2010;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_INVERSE_METERS_PER_TESLA_2010;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_K_T_2010;
ADD_IMPORT extern const cct BOHR_RADIUS_2010;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_2010;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_EV_K_2010;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_HZ_K_2010;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_INVERSE_METERS_PER_KELVIN_2010;
ADD_IMPORT extern const cct CHARACTERISTIC_IMPEDANCE_OF_VACUUM_2010;
ADD_IMPORT extern const cct CLASSICAL_ELECTRON_RADIUS_2010;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH_2010;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH_OVER_2_PI_2010;
ADD_IMPORT extern const cct CONDUCTANCE_QUANTUM_2010;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_JOSEPHSON_CONSTANT_2010;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VON_KLITZING_CONSTANT_2010;
ADD_IMPORT extern const cct CU_X_UNIT_2010;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_G_FACTOR_2010;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_2010;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
```

```
ADD_IMPORT extern const cct DEUTERON_MASS_2010;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct DEUTERON_MASS_IN_U_2010;
ADD_IMPORT extern const cct DEUTERON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct DEUTERON_NEUTRON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct DEUTERON_RMS_CHARGE_RADIUS_2010;
ADD_IMPORT extern const cct ELECTRIC_CONSTANT_2010;
ADD_IMPORT extern const cct ELECTRON_CHARGE_TO_MASS_QUOTIENT_2010;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_G_FACTOR_2010;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_OVER_2_PI_2010;
ADD_IMPORT extern const cct ELECTRON_HELION_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_2010;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_ANOMALY_2010;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_MASS_2010;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct ELECTRON_MASS_IN_U_2010;
ADD_IMPORT extern const cct ELECTRON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct ELECTRON_MUON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_MUON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_TAU_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_TO_ALPHA_PARTICLE_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_HELION_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_TRITON_MASS_RATIO_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELECTRON_VOLT_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_2010;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_OVER_H_2010;
ADD_IMPORT extern const cct FARADAY_CONSTANT_2010;
ADD_IMPORT extern const cct FARADAY_CONSTANT_FOR_CONVENTIONAL_ELECTRIC_CURRENT_2010;
ADD_IMPORT extern const cct FERMI_COUPLING_CONSTANT_2010;
ADD_IMPORT extern const cct FINE_STRUCTURE_CONSTANT_2010;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_2010;
```

```
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_FOR_SPECTRAL_RADIANCE_2010;
ADD_IMPORT extern const cct HARTREE_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_ENERGY_2010;
ADD_IMPORT extern const cct HARTREE_ENERGY_IN_EV_2010;
ADD_IMPORT extern const cct HARTREE_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HARTREE_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HELION_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct HELION_G_FACTOR_2010;
ADD_IMPORT extern const cct HELION_MAG_MOM_2010;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct HELION_MASS_2010;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct HELION_MASS_IN_U_2010;
ADD_IMPORT extern const cct HELION_MOLAR_MASS_2010;
ADD_IMPORT extern const cct HELION_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct HERTZ_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct HERTZ_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_FINE_STRUCTURE_CONSTANT_2010;
ADD_IMPORT extern const cct INVERSE_METER_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_METER_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct INVERSE_OF_CONDUCTANCE_QUANTUM_2010;
ADD_IMPORT extern const cct JOSEPHSON_CONSTANT_2010;
ADD_IMPORT extern const cct JOULE_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct JOULE_KILOGRAM_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KELVIN_KILOGRAM_RELATIONSHIP_2010;
```

```
ADD_IMPORT extern const cct KILOGRAM_ATOMIC_MASS_UNIT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_ELECTRON_VOLT_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_HARTREE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_HERTZ_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_INVERSE_METER_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_JOULE_RELATIONSHIP_2010;
ADD_IMPORT extern const cct KILOGRAM_KELVIN_RELATIONSHIP_2010;
ADD_IMPORT extern const cct LATTICE_PARAMETER_OF_SILICON_2010;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_100_KPA_2010;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_101_325_KPA_2010;
ADD_IMPORT extern const cct MAG_CONSTANT_2010;
ADD_IMPORT extern const cct MAG_FLUX_QUANTUM_2010;
ADD_IMPORT extern const cct MOLAR_GAS_CONSTANT_2010;
ADD_IMPORT extern const cct MOLAR_MASS_CONSTANT_2010;
ADD_IMPORT extern const cct MOLAR_MASS_OF_CARBON_12_2010;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT_2010;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT_TIMES_C_2010;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_100_KPA_2010;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_101_325_KPA_2010;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_SILICON_2010;
ADD_IMPORT extern const cct MO_X_UNIT_2010;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH_2010;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH_OVER_2_PI_2010;
ADD_IMPORT extern const cct MUON_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct MUON_G_FACTOR_2010;
ADD_IMPORT extern const cct MUON_MAG_MOM_2010;
ADD_IMPORT extern const cct MUON_MAG_MOM_ANOMALY_2010;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct MUON_MASS_2010;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct MUON_MASS_IN_U_2010;
ADD_IMPORT extern const cct MUON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct MUON_NEUTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct MUON_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct MUON_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct MUON_TAU_MASS_RATIO_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_IN_EV_S_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_IN_MEV_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_LENGTH_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MASS_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMUM_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMUM_IN_MEV_C_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_TIME_2010;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_VELOCITY_2010;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH_2010;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH_OVER_2_PI_2010;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MASS_RATIO_2010;
```

```
ADD_IMPORT extern const cct NEUTRON_G_FACTOR_2010;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_OVER_2_PI_2010;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_2010;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_MASS_2010;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct NEUTRON_MASS_IN_U_2010;
ADD_IMPORT extern const cct NEUTRON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct NEUTRON_MUON_MASS_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_IN_U_2010;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_TAU_MASS_RATIO_2010;
ADD_IMPORT extern const cct NEUTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_2010;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_OVER_H_BAR_C_2010;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_2010;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_EV_T_2010;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_INVERSE_METERS_PER_TESLA_2010;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_K_T_2010;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_MHZ_T_2010;
ADD_IMPORT extern const cct PLANCK_CONSTANT_2010;
ADD_IMPORT extern const cct PLANCK_CONSTANT_IN_EV_S_2010;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_2010;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_IN_EV_S_2010;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_TIMES_C_IN_MEV_FM_2010;
ADD_IMPORT extern const cct PLANCK_LENGTH_2010;
ADD_IMPORT extern const cct PLANCK_MASS_2010;
ADD_IMPORT extern const cct PLANCK_MASS_ENERGY_EQUIVALENT_IN_GEV_2010;
ADD_IMPORT extern const cct PLANCK_TEMPERATURE_2010;
ADD_IMPORT extern const cct PLANCK_TIME_2010;
ADD_IMPORT extern const cct PROTON_CHARGE_TO_MASS_QUOTIENT_2010;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH_2010;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH_OVER_2_PI_2010;
ADD_IMPORT extern const cct PROTON_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct PROTON_G_FACTOR_2010;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_2010;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_OVER_2_PI_2010;
ADD_IMPORT extern const cct PROTON_MAG_MOM_2010;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct PROTON_MAG_SHIELDING_CORRECTION_2010;
ADD_IMPORT extern const cct PROTON_MASS_2010;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct PROTON_MASS_IN_U_2010;
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ADD_IMPORT extern const cct PROTON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct PROTON_MUON_MASS_RATIO_2010;
ADD_IMPORT extern const cct PROTON_NEUTRON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct PROTON_NEUTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct PROTON_RMS_CHARGE_RADIUS_2010;
ADD_IMPORT extern const cct PROTON_TAU_MASS_RATIO_2010;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_2010;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_TIMES_2_2010;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_2010;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_C_IN_HZ_2010;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_EV_2010;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_J_2010;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_100_KPA_2010;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_101_325_KPA_2010;
ADD_IMPORT extern const cct SECOND_RADIATION_CONSTANT_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_OVER_2_PI_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_OVER_2_PI_2010;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_2010;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct SPEED_OF_LIGHT_IN_VACUUM_2010;
ADD_IMPORT extern const cct STANDARD_ACCELERATION_OF_GRAVITY_2010;
ADD_IMPORT extern const cct STANDARD_ATMOSPHERE_2010;
ADD_IMPORT extern const cct STANDARD_STATE_PRESSURE_2010;
ADD_IMPORT extern const cct STEFAN_BOLTZMANN_CONSTANT_2010;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH_2010;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH_OVER_2_PI_2010;
ADD_IMPORT extern const cct TAU_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct TAU_MASS_2010;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
ADD_IMPORT extern const cct TAU_MASS_IN_U_2010;
ADD_IMPORT extern const cct TAU_MOLAR_MASS_2010;
ADD_IMPORT extern const cct TAU_MUON_MASS_RATIO_2010;
ADD_IMPORT extern const cct TAU_NEUTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct TAU_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct THOMSON_CROSS_SECTION_2010;
ADD_IMPORT extern const cct TRITON_ELECTRON_MASS_RATIO_2010;
ADD_IMPORT extern const cct TRITON_G_FACTOR_2010;
ADD_IMPORT extern const cct TRITON_MAG_MOM_2010;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2010;
ADD_IMPORT extern const cct TRITON_MASS_2010;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_2010;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_IN_MEV_2010;
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ADD_IMPORT extern const cct TRITON_MASS_IN_U_2010;
ADD_IMPORT extern const cct TRITON_MOLAR_MASS_2010;
ADD_IMPORT extern const cct TRITON_PROTON_MASS_RATIO_2010;
ADD_IMPORT extern const cct UNIFIED_ATOMIC_MASS_UNIT_2010;
ADD_IMPORT extern const cct VON_KLITZING_CONSTANT_2010;
ADD_IMPORT extern const cct WEAK_MIXING_ANGLE_2010;
ADD_IMPORT extern const cct WIEN_FREQUENCY_DISPLACEMENT_LAW_CONSTANT_2010;
ADD_IMPORT extern const cct WIEN_WAVELENGTH_DISPLACEMENT_LAW_CONSTANT_2010;
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ADD_IMPORT extern const int YEAR_2014;
ADD_IMPORT extern const cct LATTICE_SPACING_OF_SILICON_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_IN_U_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MOLAR_MASS_2014;
ADD_IMPORT extern const cct ALPHA_PARTICLE_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ANGSTROM_STAR_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_1ST_HYPERPOLARIZABILITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_2ND_HYPERPOLARIZABILITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ACTION_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_DENSITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CURRENT_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_DIPOLE_MOM_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_GRADIENT_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POLARIZABILITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POTENTIAL_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_QUADRUPOLE_MOM_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ENERGY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_FORCE_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_LENGTH_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_DIPOLE_MOM_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_FLUX_DENSITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAGNETIZABILITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MASS_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MOMUM_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_PERMITTIVITY_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_TIME_2014;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_VELOCITY_2014;
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ADD_IMPORT extern const cct AVOGADRO_CONSTANT_2014;
ADD_IMPORT extern const cct BOHR_MAGNETON_2014;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_EV_T_2014;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_HZ_T_2014;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_INVERSE_METERS_PER_TESLA_2014;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_K_T_2014;
ADD_IMPORT extern const cct BOHR_RADIUS_2014;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_2014;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_EV_K_2014;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_HZ_K_2014;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_INVERSE_METERS_PER_KELVIN_2014;
ADD_IMPORT extern const cct CHARACTERISTIC_IMPEDANCE_OF_VACUUM_2014;
ADD_IMPORT extern const cct CLASSICAL_ELECTRON_RADIUS_2014;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH_2014;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH_OVER_2_PI_2014;
ADD_IMPORT extern const cct CONDUCTANCE_QUANTUM_2014;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_JOSEPHSON_CONSTANT_2014;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VON_KLITZING_CONSTANT_2014;
ADD_IMPORT extern const cct CU_X_UNIT_2014;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_G_FACTOR_2014;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_2014;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_MASS_2014;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct DEUTERON_MASS_IN_U_2014;
ADD_IMPORT extern const cct DEUTERON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct DEUTERON_NEUTRON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct DEUTERON_RMS_CHARGE_RADIUS_2014;
ADD_IMPORT extern const cct ELECTRIC_CONSTANT_2014;
ADD_IMPORT extern const cct ELECTRON_CHARGE_TO_MASS_QUOTIENT_2014;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_G_FACTOR_2014;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_OVER_2_PI_2014;
ADD_IMPORT extern const cct ELECTRON_HELION_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_2014;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_ANOMALY_2014;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_MASS_2014;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct ELECTRON_MASS_IN_U_2014;
ADD_IMPORT extern const cct ELECTRON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct ELECTRON_MUON_MAG_MOM_RATIO_2014;
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ADD_IMPORT extern const cct ELECTRON_MUON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_TAU_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_TO_ALPHA_PARTICLE_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_HELION_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_TRITON_MASS_RATIO_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELECTRON_VOLT_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_2014;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_OVER_H_2014;
ADD_IMPORT extern const cct FARADAY_CONSTANT_2014;
ADD_IMPORT extern const cct FARADAY_CONSTANT_FOR_CONVENTIONAL_ELECTRIC_CURRENT_2014;
ADD_IMPORT extern const cct FERMI_COUPLING_CONSTANT_2014;
ADD_IMPORT extern const cct FINE_STRUCTURE_CONSTANT_2014;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_2014;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_FOR_SPECTRAL_RADIANCE_2014;
ADD_IMPORT extern const cct HARTREE_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_ENERGY_2014;
ADD_IMPORT extern const cct HARTREE_ENERGY_IN_EV_2014;
ADD_IMPORT extern const cct HARTREE_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HARTREE_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HELION_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct HELION_G_FACTOR_2014;
ADD_IMPORT extern const cct HELION_MAG_MOM_2014;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct HELION_MASS_2014;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct HELION_MASS_IN_U_2014;
ADD_IMPORT extern const cct HELION_MOLAR_MASS_2014;
ADD_IMPORT extern const cct HELION_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct HERTZ_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HERTZ_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HERTZ_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HERTZ_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HERTZ_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct HERTZ_KELVIN_RELATIONSHIP_2014;
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ADD_IMPORT extern const cct INVERSE_FINE_STRUCTURE_CONSTANT_2014;
ADD_IMPORT extern const cct INVERSE_METER_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_METER_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct INVERSE_OF_CONDUCTANCE_QUANTUM_2014;
ADD_IMPORT extern const cct JOSEPHSON_CONSTANT_2014;
ADD_IMPORT extern const cct JOULE_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct JOULE_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KELVIN_KILOGRAM_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_ATOMIC_MASS_UNIT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_ELECTRON_VOLT_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_HARTREE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_HERTZ_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_INVERSE_METER_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_JOULE_RELATIONSHIP_2014;
ADD_IMPORT extern const cct KILOGRAM_KELVIN_RELATIONSHIP_2014;
ADD_IMPORT extern const cct LATTICE_PARAMETER_OF_SILICON_2014;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_100_KPA_2014;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_101_325_KPA_2014;
ADD_IMPORT extern const cct MAG_CONSTANT_2014;
ADD_IMPORT extern const cct MAG_FLUX_QUANTUM_2014;
ADD_IMPORT extern const cct MOLAR_GAS_CONSTANT_2014;
ADD_IMPORT extern const cct MOLAR_MASS_CONSTANT_2014;
ADD_IMPORT extern const cct MOLAR_MASS_OF_CARBON_12_2014;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT_2014;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT_TIMES_C_2014;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_100_KPA_2014;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_101_325_KPA_2014;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_SILICON_2014;
ADD_IMPORT extern const cct MO_X_UNIT_2014;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH_2014;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH_OVER_2_PI_2014;
ADD_IMPORT extern const cct MUON_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct MUON_G_FACTOR_2014;
ADD_IMPORT extern const cct MUON_MAG_MOM_2014;
ADD_IMPORT extern const cct MUON_MAG_MOM_ANOMALY_2014;
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ADD_IMPORT extern const cct MUON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct MUON_MASS_2014;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct MUON_MASS_IN_U_2014;
ADD_IMPORT extern const cct MUON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct MUON_NEUTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct MUON_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct MUON_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct MUON_TAU_MASS_RATIO_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_IN_EV_S_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_IN_MEV_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_LENGTH_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MASS_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMUM_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMUM_IN_MEV_C_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_TIME_2014;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_VELOCITY_2014;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH_2014;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH_OVER_2_PI_2014;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_G_FACTOR_2014;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_OVER_2_PI_2014;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_2014;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_MASS_2014;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct NEUTRON_MASS_IN_U_2014;
ADD_IMPORT extern const cct NEUTRON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct NEUTRON_MUON_MASS_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_IN_U_2014;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_TAU_MASS_RATIO_2014;
ADD_IMPORT extern const cct NEUTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_2014;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_OVER_H_BAR_C_2014;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_2014;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_EV_T_2014;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_INVERSE_METERS_PER_TESLA_2014;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_K_T_2014;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_MHZ_T_2014;
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ADD_IMPORT extern const cct PLANCK_CONSTANT_2014;
ADD_IMPORT extern const cct PLANCK_CONSTANT_IN_EV_S_2014;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_2014;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_IN_EV_S_2014;
ADD_IMPORT extern const cct PLANCK_CONSTANT_OVER_2_PI_TIMES_C_IN_MEV_FM_2014;
ADD_IMPORT extern const cct PLANCK_LENGTH_2014;
ADD_IMPORT extern const cct PLANCK_MASS_2014;
ADD_IMPORT extern const cct PLANCK_MASS_ENERGY_EQUIVALENT_IN_GEV_2014;
ADD_IMPORT extern const cct PLANCK_TEMPERATURE_2014;
ADD_IMPORT extern const cct PLANCK_TIME_2014;
ADD_IMPORT extern const cct PROTON_CHARGE_TO_MASS_QUOTIENT_2014;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH_2014;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH_OVER_2_PI_2014;
ADD_IMPORT extern const cct PROTON_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct PROTON_G_FACTOR_2014;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_2014;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_OVER_2_PI_2014;
ADD_IMPORT extern const cct PROTON_MAG_MOM_2014;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct PROTON_MAG_SHIELDING_CORRECTION_2014;
ADD_IMPORT extern const cct PROTON_MASS_2014;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct PROTON_MASS_IN_U_2014;
ADD_IMPORT extern const cct PROTON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct PROTON_MUON_MASS_RATIO_2014;
ADD_IMPORT extern const cct PROTON_NEUTRON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct PROTON_NEUTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct PROTON_RMS_CHARGE_RADIUS_2014;
ADD_IMPORT extern const cct PROTON_TAU_MASS_RATIO_2014;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_2014;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_TIMES_2_2014;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_2014;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_C_IN_HZ_2014;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_EV_2014;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_J_2014;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_100_KPA_2014;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_101_325_KPA_2014;
ADD_IMPORT extern const cct SECOND_RADIATION_CONSTANT_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_OVER_2_PI_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_OVER_2_PI_2014;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_2014;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
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ADD_IMPORT extern const cct SPEED_OF_LIGHT_IN_VACUUM_2014;
ADD_IMPORT extern const cct STANDARD_ACCELERATION_OF_GRAVITY_2014;
ADD_IMPORT extern const cct STANDARD_ATMOSPHERE_2014;
ADD_IMPORT extern const cct STANDARD_STATE_PRESSURE_2014;
ADD_IMPORT extern const cct STEFAN_BOLTZMANN_CONSTANT_2014;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH_2014;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH_OVER_2_PI_2014;
ADD_IMPORT extern const cct TAU_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct TAU_MASS_2014;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct TAU_MASS_IN_U_2014;
ADD_IMPORT extern const cct TAU_MOLAR_MASS_2014;
ADD_IMPORT extern const cct TAU_MUON_MASS_RATIO_2014;
ADD_IMPORT extern const cct TAU_NEUTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct TAU_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct THOMSON_CROSS_SECTION_2014;
ADD_IMPORT extern const cct TRITON_ELECTRON_MASS_RATIO_2014;
ADD_IMPORT extern const cct TRITON_G_FACTOR_2014;
ADD_IMPORT extern const cct TRITON_MAG_MOM_2014;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2014;
ADD_IMPORT extern const cct TRITON_MASS_2014;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_2014;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_IN_MEV_2014;
ADD_IMPORT extern const cct TRITON_MASS_IN_U_2014;
ADD_IMPORT extern const cct TRITON_MOLAR_MASS_2014;
ADD_IMPORT extern const cct TRITON_PROTON_MASS_RATIO_2014;
ADD_IMPORT extern const cct UNIFIED_ATOMIC_MASS_UNIT_2014;
ADD_IMPORT extern const cct VON_KLITZING_CONSTANT_2014;
ADD_IMPORT extern const cct WEAK_MIXING_ANGLE_2014;
ADD_IMPORT extern const cct WIEN_FREQUENCY_DISPLACEMENT_LAW_CONSTANT_2014;
ADD_IMPORT extern const cct WIEN_WAVELENGTH_DISPLACEMENT_LAW_CONSTANT_2014;
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ADD_IMPORT extern const int YEAR_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_IN_U_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MOLAR_MASS_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ALPHA_PARTICLE_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct ANGSTROM_STAR_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_JOULE_RELATIONSHIP_2018;
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ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_1ST_HYPERPOLARIZABILITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_2ND_HYPERPOLARIZABILITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ACTION_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_DENSITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CURRENT_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_DIPOLE_MOM_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_GRADIENT_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POLARIZABILITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POTENTIAL_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_QUADRUPOLE_MOM_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ENERGY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_FORCE_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_LENGTH_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_DIPOLE_MOM_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_FLUX_DENSITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAGNETIZABILITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MASS_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MOMENTUM_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_PERMITTIVITY_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_TIME_2018;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_VELOCITY_2018;
ADD_IMPORT extern const cct AVOGADRO_CONSTANT_2018;
ADD_IMPORT extern const cct BOHR_MAGNETON_2018;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_EV_T_2018;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_HZ_T_2018;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_INVERSE_METER_PER_TESLA_2018;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_K_T_2018;
ADD_IMPORT extern const cct BOHR_RADIUS_2018;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_2018;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_EV_K_2018;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_HZ_K_2018;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_INVERSE_METER_PER_KELVIN_2018;
ADD_IMPORT extern const cct CHARACTERISTIC_IMPEDANCE_OF_VACUUM_2018;
ADD_IMPORT extern const cct CLASSICAL_ELECTRON_RADIUS_2018;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct CONDUCTANCE_QUANTUM_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_AMPERE_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_COULOMB_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_FARAD_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_HENRY_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_JOSEPHSON_CONSTANT_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_OHM_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VOLT_90_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VON_KLITZING_CONSTANT_2018;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_WATT_90_2018;
ADD_IMPORT extern const cct COPPER_X_UNIT_2018;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MASS_RATIO_2018;
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ADD_IMPORT extern const cct DEUTERON_G_FACTOR_2018;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_2018;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_MASS_2018;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct DEUTERON_MASS_IN_U_2018;
ADD_IMPORT extern const cct DEUTERON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct DEUTERON_NEUTRON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct DEUTERON_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct DEUTERON_RMS_CHARGE_RADIUS_2018;
ADD_IMPORT extern const cct ELECTRON_CHARGE_TO_MASS_QUOTIENT_2018;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_G_FACTOR_2018;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_IN_MHZ_T_2018;
ADD_IMPORT extern const cct ELECTRON_HELION_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_2018;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_ANOMALY_2018;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_MASS_2018;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct ELECTRON_MASS_IN_U_2018;
ADD_IMPORT extern const cct ELECTRON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct ELECTRON_MUON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_MUON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct ELECTRON_TAU_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_TO_ALPHA_PARTICLE_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_HELION_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_TRITON_MASS_RATIO_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELECTRON_VOLT_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_2018;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_OVER_H_BAR_2018;
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ADD_IMPORT extern const cct FARADAY_CONSTANT_2018;
ADD_IMPORT extern const cct FERMI_COUPLING_CONSTANT_2018;
ADD_IMPORT extern const cct FINE_STRUCTURE_CONSTANT_2018;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_2018;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_FOR_SPECTRAL_RADIANCE_2018;
ADD_IMPORT extern const cct HARTREE_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_ENERGY_2018;
ADD_IMPORT extern const cct HARTREE_ENERGY_IN_EV_2018;
ADD_IMPORT extern const cct HARTREE_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HARTREE_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HELION_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct HELION_G_FACTOR_2018;
ADD_IMPORT extern const cct HELION_MAG_MOM_2018;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct HELION_MASS_2018;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct HELION_MASS_IN_U_2018;
ADD_IMPORT extern const cct HELION_MOLAR_MASS_2018;
ADD_IMPORT extern const cct HELION_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct HELION_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct HELION_SHIELDING_SHIFT_2018;
ADD_IMPORT extern const cct HERTZ_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HERTZ_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct HYPERFINE_TRANSITION_FREQUENCY_OF_CS_133_2018;
ADD_IMPORT extern const cct INVERSE_FINE_STRUCTURE_CONSTANT_2018;
ADD_IMPORT extern const cct INVERSE_METER_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_METER_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct INVERSE_OF_CONDUCTANCE_QUANTUM_2018;
ADD_IMPORT extern const cct JOSEPHSON_CONSTANT_2018;
ADD_IMPORT extern const cct JOULE_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct JOULE_KILOGRAM_RELATIONSHIP_2018;
```

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ADD_IMPORT extern const cct KELVIN_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KELVIN_KILOGRAM_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_ATOMIC_MASS_UNIT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_ELECTRON_VOLT_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_HARTREE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_HERTZ_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_INVERSE_METER_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_JOULE_RELATIONSHIP_2018;
ADD_IMPORT extern const cct KILOGRAM_KELVIN_RELATIONSHIP_2018;
ADD_IMPORT extern const cct LATTICE_PARAMETER_OF_SILICON_2018;
ADD_IMPORT extern const cct LATTICE_SPACING_OF_IDEAL_SI_220_2018;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_100_KPA_2018;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_101_325_KPA_2018;
ADD_IMPORT extern const cct LUMINOUS_EFFICACY_2018;
ADD_IMPORT extern const cct MAG_FLUX_QUANTUM_2018;
ADD_IMPORT extern const cct MOLAR_GAS_CONSTANT_2018;
ADD_IMPORT extern const cct MOLAR_MASS_CONSTANT_2018;
ADD_IMPORT extern const cct MOLAR_MASS_OF_CARBON_12_2018;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT_2018;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_100_KPA_2018;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_101_325_KPA_2018;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_SILICON_2018;
ADD_IMPORT extern const cct MOLYBDENUM_X_UNIT_2018;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct MUON_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct MUON_G_FACTOR_2018;
ADD_IMPORT extern const cct MUON_MAG_MOM_2018;
ADD_IMPORT extern const cct MUON_MAG_MOM_ANOMALY_2018;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct MUON_MASS_2018;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct MUON_MASS_IN_U_2018;
ADD_IMPORT extern const cct MUON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct MUON_NEUTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct MUON_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct MUON_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct MUON_TAU_MASS_RATIO_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_IN_EV_S_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_IN_MEV_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_LENGTH_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MASS_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMENTUM_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMENTUM_IN_MEV_C_2018;
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ADD_IMPORT extern const cct NATURAL_UNIT_OF_TIME_2018;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_VELOCITY_2018;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_G_FACTOR_2018;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_IN_MHZ_T_2018;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_2018;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_MASS_2018;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct NEUTRON_MASS_IN_U_2018;
ADD_IMPORT extern const cct NEUTRON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct NEUTRON_MUON_MASS_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_IN_U_2018;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct NEUTRON_TAU_MASS_RATIO_2018;
ADD_IMPORT extern const cct NEUTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_2018;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_OVER_H_BAR_C_2018;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_2018;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_EV_T_2018;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_INVERSE_METER_PER_TESLA_2018;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_K_T_2018;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_MHZ_T_2018;
ADD_IMPORT extern const cct PLANCK_CONSTANT_2018;
ADD_IMPORT extern const cct PLANCK_CONSTANT_IN_EV_HZ_2018;
ADD_IMPORT extern const cct PLANCK_LENGTH_2018;
ADD_IMPORT extern const cct PLANCK_MASS_2018;
ADD_IMPORT extern const cct PLANCK_MASS_ENERGY_EQUIVALENT_IN_GEV_2018;
ADD_IMPORT extern const cct PLANCK_TEMPERATURE_2018;
ADD_IMPORT extern const cct PLANCK_TIME_2018;
ADD_IMPORT extern const cct PROTON_CHARGE_TO_MASS_QUOTIENT_2018;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct PROTON_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct PROTON_G_FACTOR_2018;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_2018;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_IN_MHZ_T_2018;
ADD_IMPORT extern const cct PROTON_MAG_MOM_2018;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct PROTON_MAG_SHIELDING_CORRECTION_2018;
ADD_IMPORT extern const cct PROTON_MASS_2018;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_2018;
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ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct PROTON_MASS_IN_U_2018;
ADD_IMPORT extern const cct PROTON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct PROTON_MUON_MASS_RATIO_2018;
ADD_IMPORT extern const cct PROTON_NEUTRON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct PROTON_NEUTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct PROTON_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct PROTON_RMS_CHARGE_RADIUS_2018;
ADD_IMPORT extern const cct PROTON_TAU_MASS_RATIO_2018;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_2018;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_TIMES_2_2018;
ADD_IMPORT extern const cct REDUCED_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct REDUCED_MUON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct REDUCED_NEUTRON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT_2018;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT_IN_EV_S_2018;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT_TIMES_C_IN_MEV_FM_2018;
ADD_IMPORT extern const cct REDUCED_PROTON_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct REDUCED_TAU_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_2018;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_C_IN_HZ_2018;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_EV_2018;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_J_2018;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_100_KPA_2018;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_101_325_KPA_2018;
ADD_IMPORT extern const cct SECOND_RADIATION_CONSTANT_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_IN_MHZ_T_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_SHIELDED_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_IN_MHZ_T_2018;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_2018;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct SHIELDING_DIFFERENCE_OF_D_AND_P_IN_HD_2018;
ADD_IMPORT extern const cct SHIELDING_DIFFERENCE_OF_T_AND_P_IN_HT_2018;
ADD_IMPORT extern const cct SPEED_OF_LIGHT_IN_VACUUM_2018;
ADD_IMPORT extern const cct STANDARD_ACCELERATION_OF_GRAVITY_2018;
ADD_IMPORT extern const cct STANDARD_ATMOSPHERE_2018;
ADD_IMPORT extern const cct STANDARD_STATE_PRESSURE_2018;
ADD_IMPORT extern const cct STEFAN_BOLTZMANN_CONSTANT_2018;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH_2018;
ADD_IMPORT extern const cct TAU_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct TAU_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct TAU_MASS_2018;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct TAU_MASS_IN_U_2018;
ADD_IMPORT extern const cct TAU_MOLAR_MASS_2018;
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ADD_IMPORT extern const cct TAU_MUON_MASS_RATIO_2018;
ADD_IMPORT extern const cct TAU_NEUTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct TAU_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct THOMSON_CROSS_SECTION_2018;
ADD_IMPORT extern const cct TRITON_ELECTRON_MASS_RATIO_2018;
ADD_IMPORT extern const cct TRITON_G_FACTOR_2018;
ADD_IMPORT extern const cct TRITON_MAG_MOM_2018;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_BOHR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO_2018;
ADD_IMPORT extern const cct TRITON_MASS_2018;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_2018;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_IN_MEV_2018;
ADD_IMPORT extern const cct TRITON_MASS_IN_U_2018;
ADD_IMPORT extern const cct TRITON_MOLAR_MASS_2018;
ADD_IMPORT extern const cct TRITON_PROTON_MASS_RATIO_2018;
ADD_IMPORT extern const cct TRITON_RELATIVE_ATOMIC_MASS_2018;
ADD_IMPORT extern const cct TRITON_TO_PROTON_MAG_MOM_RATIO_2018;
ADD_IMPORT extern const cct UNIFIED_ATOMIC_MASS_UNIT_2018;
ADD_IMPORT extern const cct VACUUM_ELECTRIC_PERMITTIVITY_2018;
ADD_IMPORT extern const cct VACUUM_MAG_PERMEABILITY_2018;
ADD_IMPORT extern const cct VON_KLITZING_CONSTANT_2018;
ADD_IMPORT extern const cct WEAK_MIXING_ANGLE_2018;
ADD_IMPORT extern const cct WIEN_FREQUENCY_DISPLACEMENT_LAW_CONSTANT_2018;
ADD_IMPORT extern const cct WIEN_WAVELENGTH_DISPLACEMENT_LAW_CONSTANT_2018;
ADD_IMPORT extern const cct W_TO_Z_MASS_RATIO_2018;
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ADD_IMPORT extern const int YEAR;
ADD_IMPORT extern const cct ALPHA_PARTICLE_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MASS_IN_U;
ADD_IMPORT extern const cct ALPHA_PARTICLE_MOLAR_MASS;
ADD_IMPORT extern const cct ALPHA_PARTICLE_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct ALPHA_PARTICLE_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct ALPHA_PARTICLE_RMS_CHARGE_RADIUS;
ADD_IMPORT extern const cct ANGSTROM_STAR;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct ATOMIC_MASS_CONSTANT_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_MASS_UNIT_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_1ST_HYPERPOLARIZABILITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_2ND_HYPERPOLARIZABILITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ACTION;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CHARGE_DENSITY;
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ADD_IMPORT extern const cct ATOMIC_UNIT_OF_CURRENT;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_DIPOLE_MOM;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_FIELD_GRADIENT;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POLARIZABILITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_POTENTIAL;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ELECTRIC_QUADRUPOLE_MOM;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_ENERGY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_FORCE;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_LENGTH;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_DIPOLE_MOM;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAG_FLUX_DENSITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MAGNETIZABILITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MASS;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_MOMENTUM;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_PERMITTIVITY;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_TIME;
ADD_IMPORT extern const cct ATOMIC_UNIT_OF_VELOCITY;
ADD_IMPORT extern const cct AVOGADRO_CONSTANT;
ADD_IMPORT extern const cct BOHR_MAGNETON;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_EV_T;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_HZ_T;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_INVERSE_METER_PER_TESLA;
ADD_IMPORT extern const cct BOHR_MAGNETON_IN_K_T;
ADD_IMPORT extern const cct BOHR_RADIUS;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_EV_K;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_HZ_K;
ADD_IMPORT extern const cct BOLTZMANN_CONSTANT_IN_INVERSE_METER_PER_KELVIN;
ADD_IMPORT extern const cct CHARACTERISTIC_IMPEDANCE_OF_VACUUM;
ADD_IMPORT extern const cct CLASSICAL_ELECTRON_RADIUS;
ADD_IMPORT extern const cct COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct CONDUCTANCE_QUANTUM;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_AMPERE_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_COULOMB_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_FARAD_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_HENRY_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_JOSEPHSON_CONSTANT;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_OHM_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VOLT_90;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_VON_KLITZING_CONSTANT;
ADD_IMPORT extern const cct CONVENTIONAL_VALUE_OF_WATT_90;
ADD_IMPORT extern const cct COPPER_X_UNIT;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct DEUTERON_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct DEUTERON_G_FACTOR;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct DEUTERON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct DEUTERON_MASS;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct DEUTERON_MASS_ENERGY_EQUIVALENT_IN_MEV;
```

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ADD_IMPORT extern const cct DEUTERON_MASS_IN_U;
ADD_IMPORT extern const cct DEUTERON_MOLAR_MASS;
ADD_IMPORT extern const cct DEUTERON_NEUTRON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct DEUTERON_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct DEUTERON_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct DEUTERON_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct DEUTERON_RMS_CHARGE_RADIUS;
ADD_IMPORT extern const cct ELECTRON_CHARGE_TO_MASS_QUOTIENT;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_DEUTERON_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_G_FACTOR;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO;
ADD_IMPORT extern const cct ELECTRON_GYROMAG_RATIO_IN_MHZ_T;
ADD_IMPORT extern const cct ELECTRON_HELION_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_ANOMALY;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct ELECTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct ELECTRON_MASS;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct ELECTRON_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct ELECTRON_MASS_IN_U;
ADD_IMPORT extern const cct ELECTRON_MOLAR_MASS;
ADD_IMPORT extern const cct ELECTRON_MUON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_MUON_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_NEUTRON_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct ELECTRON_TAU_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_TO_ALPHA_PARTICLE_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_HELION_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct ELECTRON_TRITON_MASS_RATIO;
ADD_IMPORT extern const cct ELECTRON_VOLT;
ADD_IMPORT extern const cct ELECTRON_VOLT_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct ELECTRON_VOLT_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE;
ADD_IMPORT extern const cct ELEMENTARY_CHARGE_OVER_H_BAR;
ADD_IMPORT extern const cct FARADAY_CONSTANT;
ADD_IMPORT extern const cct FERMI_COUPLING_CONSTANT;
ADD_IMPORT extern const cct FINE_STRUCTURE_CONSTANT;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT;
ADD_IMPORT extern const cct FIRST_RADIATION_CONSTANT_FOR_SPECTRAL_RADIANCE;
ADD_IMPORT extern const cct HARTREE_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct HARTREE_ELECTRON_VOLT_RELATIONSHIP;
```

```
ADD_IMPORT extern const cct HARTREE_ENERGY;
ADD_IMPORT extern const cct HARTREE_ENERGY_IN_EV;
ADD_IMPORT extern const cct HARTREE_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct HARTREE_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct HARTREE_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct HARTREE_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct HARTREE_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct HELION_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct HELION_G_FACTOR;
ADD_IMPORT extern const cct HELION_MAG_MOM;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct HELION_MASS;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct HELION_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct HELION_MASS_IN_U;
ADD_IMPORT extern const cct HELION_MOLAR_MASS;
ADD_IMPORT extern const cct HELION_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct HELION_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct HELION_SHIELDING_SHIFT;
ADD_IMPORT extern const cct HERTZ_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct HERTZ_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct HYPERFINE_TRANSITION_FREQUENCY_OF_CS_133;
ADD_IMPORT extern const cct INVERSE_FINE_STRUCTURE_CONSTANT;
ADD_IMPORT extern const cct INVERSE_METER_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_METER_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct INVERSE_OF_CONDUCTANCE_QUANTUM;
ADD_IMPORT extern const cct JOSEPHSON_CONSTANT;
ADD_IMPORT extern const cct JOULE_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct JOULE_KILOGRAM_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct KELVIN_KILOGRAM_RELATIONSHIP;
```

```
ADD_IMPORT extern const cct KILOGRAM_ATOMIC_MASS_UNIT_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_ELECTRON_VOLT_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_HARTREE_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_HERTZ_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_INVERSE_METER_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_JOULE_RELATIONSHIP;
ADD_IMPORT extern const cct KILOGRAM_KELVIN_RELATIONSHIP;
ADD_IMPORT extern const cct LATTICE_PARAMETER_OF_SILICON;
ADD_IMPORT extern const cct LATTICE_SPACING_OF_IDEAL_SI_220;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_100_KPA;
ADD_IMPORT extern const cct LOSCHMIDT_CONSTANT_273_15_K_101_325_KPA;
ADD_IMPORT extern const cct LUMINOUS_EFFICACY;
ADD_IMPORT extern const cct MAG_FLUX_QUANTUM;
ADD_IMPORT extern const cct MOLAR_GAS_CONSTANT;
ADD_IMPORT extern const cct MOLAR_MASS_CONSTANT;
ADD_IMPORT extern const cct MOLAR_MASS_OF_CARBON_12;
ADD_IMPORT extern const cct MOLAR_PLANCK_CONSTANT;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_100_KPA;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_IDEAL_GAS_273_15_K_101_325_KPA;
ADD_IMPORT extern const cct MOLAR_VOLUME_OF_SILICON;
ADD_IMPORT extern const cct MOLYBDENUM_X_UNIT;
ADD_IMPORT extern const cct MUON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct MUON_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct MUON_G_FACTOR;
ADD_IMPORT extern const cct MUON_MAG_MOM;
ADD_IMPORT extern const cct MUON_MAG_MOM_ANOMALY;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct MUON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct MUON_MASS;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct MUON_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct MUON_MASS_IN_U;
ADD_IMPORT extern const cct MUON_MOLAR_MASS;
ADD_IMPORT extern const cct MUON_NEUTRON_MASS_RATIO;
ADD_IMPORT extern const cct MUON_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct MUON_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct MUON_TAU_MASS_RATIO;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ACTION_IN_EV_S;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_ENERGY_IN_MEV;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_LENGTH;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MASS;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMENTUM;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_MOMENTUM_IN_MEV_C;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_TIME;
ADD_IMPORT extern const cct NATURAL_UNIT_OF_VELOCITY;
ADD_IMPORT extern const cct NEUTRON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct NEUTRON_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct NEUTRON_G_FACTOR;
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO;
```

```
ADD_IMPORT extern const cct NEUTRON_GYROMAG_RATIO_IN_MHZ_T;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct NEUTRON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct NEUTRON_MASS;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct NEUTRON_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct NEUTRON_MASS_IN_U;
ADD_IMPORT extern const cct NEUTRON_MOLAR_MASS;
ADD_IMPORT extern const cct NEUTRON_MUON_MASS_RATIO;
ADD_IMPORT extern const cct NEUTRON_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_DIFFERENCE_IN_U;
ADD_IMPORT extern const cct NEUTRON_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct NEUTRON_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct NEUTRON_TAU_MASS_RATIO;
ADD_IMPORT extern const cct NEUTRON_TO_SHIELDED_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION;
ADD_IMPORT extern const cct NEWTONIAN_CONSTANT_OF_GRAVITATION_OVER_H_BAR_C;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_EV_T;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_INVERSE_METER_PER_TESLA;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_K_T;
ADD_IMPORT extern const cct NUCLEAR_MAGNETON_IN_MHZ_T;
ADD_IMPORT extern const cct PLANCK_CONSTANT;
ADD_IMPORT extern const cct PLANCK_CONSTANT_IN_EV_HZ;
ADD_IMPORT extern const cct PLANCK_LENGTH;
ADD_IMPORT extern const cct PLANCK_MASS;
ADD_IMPORT extern const cct PLANCK_MASS_ENERGY_EQUIVALENT_IN_GEV;
ADD_IMPORT extern const cct PLANCK_TEMPERATURE;
ADD_IMPORT extern const cct PLANCK_TIME;
ADD_IMPORT extern const cct PROTON_CHARGE_TO_MASS_QUOTIENT;
ADD_IMPORT extern const cct PROTON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct PROTON_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct PROTON_G_FACTOR;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO;
ADD_IMPORT extern const cct PROTON_GYROMAG_RATIO_IN_MHZ_T;
ADD_IMPORT extern const cct PROTON_MAG_MOM;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct PROTON_MAG_SHIELDING_CORRECTION;
ADD_IMPORT extern const cct PROTON_MASS;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct PROTON_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct PROTON_MASS_IN_U;
ADD_IMPORT extern const cct PROTON_MOLAR_MASS;
ADD_IMPORT extern const cct PROTON_MUON_MASS_RATIO;
ADD_IMPORT extern const cct PROTON_NEUTRON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct PROTON_NEUTRON_MASS_RATIO;
ADD_IMPORT extern const cct PROTON_RELATIVE_ATOMIC_MASS;
```

```
ADD_IMPORT extern const cct PROTON_RMS_CHARGE_RADIUS;
ADD_IMPORT extern const cct PROTON_TAU_MASS_RATIO;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION;
ADD_IMPORT extern const cct QUANTUM_OF_CIRCULATION_TIMES_2;
ADD_IMPORT extern const cct REDUCED_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct REDUCED_MUON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct REDUCED_NEUTRON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT_IN_EV_S;
ADD_IMPORT extern const cct REDUCED_PLANCK_CONSTANT_TIMES_C_IN_MEV_FM;
ADD_IMPORT extern const cct REDUCED_PROTON_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct REDUCED_TAU_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct RYDBERG_CONSTANT;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_C_IN_HZ;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_EV;
ADD_IMPORT extern const cct RYDBERG_CONSTANT_TIMES_HC_IN_J;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_100_KPA;
ADD_IMPORT extern const cct SACKUR_TETRODE_CONSTANT_1_K_101_325_KPA;
ADD_IMPORT extern const cct SECOND_RADIATION_CONSTANT;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO;
ADD_IMPORT extern const cct SHIELDED_HELION_GYROMAG_RATIO_IN_MHZ_T;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct SHIELDED_HELION_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct SHIELDED_HELION_TO_SHIELDED_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO;
ADD_IMPORT extern const cct SHIELDED_PROTON_GYROMAG_RATIO_IN_MHZ_T;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct SHIELDED_PROTON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct SHIELDING_DIFFERENCE_OF_D_AND_P_IN_HD;
ADD_IMPORT extern const cct SHIELDING_DIFFERENCE_OF_T_AND_P_IN_HT;
ADD_IMPORT extern const cct SPEED_OF_LIGHT_IN_VACUUM;
ADD_IMPORT extern const cct STANDARD_ACCELERATION_OF_GRAVITY;
ADD_IMPORT extern const cct STANDARD_ATMOSPHERE;
ADD_IMPORT extern const cct STANDARD_STATE_PRESSURE;
ADD_IMPORT extern const cct STEFAN_BOLTZMANN_CONSTANT;
ADD_IMPORT extern const cct TAU_COMPTON_WAVELENGTH;
ADD_IMPORT extern const cct TAU_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct TAU_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct TAU_MASS;
ADD_IMPORT extern const cct TAU_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct TAU_MASS_IN_U;
ADD_IMPORT extern const cct TAU_MOLAR_MASS;
ADD_IMPORT extern const cct TAU_MUON_MASS_RATIO;
ADD_IMPORT extern const cct TAU_NEUTRON_MASS_RATIO;
ADD_IMPORT extern const cct TAU_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct THOMSON_CROSS_SECTION;
ADD_IMPORT extern const cct TRITON_ELECTRON_MASS_RATIO;
ADD_IMPORT extern const cct TRITON_G_FACTOR;
ADD_IMPORT extern const cct TRITON_MAG_MOM;
```

```
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_BOHR_MAGNETON_RATIO;
ADD_IMPORT extern const cct TRITON_MAG_MOM_TO_NUCLEAR_MAGNETON_RATIO;
ADD_IMPORT extern const cct TRITON_MASS;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT;
ADD_IMPORT extern const cct TRITON_MASS_ENERGY_EQUIVALENT_IN_MEV;
ADD_IMPORT extern const cct TRITON_MASS_IN_U;
ADD_IMPORT extern const cct TRITON_MOLAR_MASS;
ADD_IMPORT extern const cct TRITON_PROTON_MASS_RATIO;
ADD_IMPORT extern const cct TRITON_RELATIVE_ATOMIC_MASS;
ADD_IMPORT extern const cct TRITON_TO_PROTON_MAG_MOM_RATIO;
ADD_IMPORT extern const cct UNIFIED_ATOMIC_MASS_UNIT;
ADD_IMPORT extern const cct VACUUM_ELECTRIC_PERMITTIVITY;
ADD_IMPORT extern const cct VACUUM_MAG_PERMEABILITY;
ADD_IMPORT extern const cct VON_KLITZING_CONSTANT;
ADD_IMPORT extern const cct WEAK_MIXING_ANGLE;
ADD_IMPORT extern const cct WIEN_FREQUENCY_DISPLACEMENT_LAW_CONSTANT;
ADD_IMPORT extern const cct WIEN_WAVELENGTH_DISPLACEMENT_LAW_CONSTANT;
ADD_IMPORT extern const cct W_TO_Z_MASS_RATIO;
```

```
#endif
```

3.3 Python

Codata 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.

The latest values are available at the top level and older values are available in dedicated modules.

CHANGELOG

4.1 2.3.1

- Refactoring the `configure.sh` script.
- Remove support for 3.14t. No official release on python.org.
- If binaries for Python 3.14t are needed you need to compile them by yourself.

4.2 2.3.0

- Remove support for Python 3.9 and add support for Python 3.14(t).

Full changelog

4.3 2.2.0

- Switch to UCRT64 for Windows binaries.
- Switch to sphinx documentation using fspx.
- Update references with publication for codata 2022.
- Update compilation flags for compatibility with `stdlib`.

Full changelog

4.4 2.1.1

- No code change.
- Code refractoring and cleaning
- Update CI/CD workflows.

Full changelog

4.5 2.1.0

- Roll back to C API in Fortran code: easier maintenance.
- Roll back to compiled C extension for python: easier maintenance.

Full changelog available at github

4.6 2.0.1

- Fix bug in version for Fortran code.

Full changelog available at github

4.7 2.0.0

- Drop compiled extensions for Python.

- Pure Python code for constants auto-generated as it is the case for the Fortran code.

- Pure C code for constants auto-generated as it is the case for the Fortran code.

- API break:

  - No more C API in the Fortran code.

  - Use the pure C code to build a C library.

Full changelog available at github

4.8 1.2.2

- Fix conflict that could occur with C API modules. Add prefix in module names.

- Cleanup and refractoring.

- Documentation update.

4.9 1.2.1

- Refractoring

- Merge back C API and python wrapper.

Full changelog available at github

4.10 1.2.0

- Refractoring

- Documentation update.

Full changelog available at github

4.11 1.1.0

- C API and Python wrapper moved to their own repositories.

  - C wrapper

  - Python wrapper

- API break: C API is no more provided by default. Use the optional C wrapper.

- Code cleanup

- Documentation update

Full changelog available at github

4.12 1.0.0

- Add codata values for 2010, 2014 and 2018.
- Code refractoring and code cleaning.
- Documentation update and switch to only FORD documentation.
- Rewrite code generators in python.
- Generate source code for stdlib.
- API break: constants are defined as DT like in stdlib.

Full changelog available at github

Python wrapper available at pypi.

4.13 0.10.0

- Remove remove generation of the version module.
- Add tests using the test-drive framework.
- Explicit parameter constants for Fortran and protected constants for C API.
- Minor fixes in documentation.
- Code cleanup.
- Merge of all code for autogeneration in one file.

Full changelog available at github

Python wrapper available at pypi.

4.14 0.9.0

- No API changes.
- Automatic generation of the version module.
- Generic Makefiles for automatic the building process of the library and the pywrapper.
- Add targets: build, build_debug, test, test_debug.
- Minor fixes in documentation.

Full changelog available at github

Python wrapper available at pypi.

4.15 0.8.2

- No API changes.
- Improve Makefile for generating the source code at each compilation.
- Source generator rewritten in Fortran.
- Switch to pyproject.toml for the Python wrapper.

- Minor fixes in documentation.

Full changelog available at github

Python wrapper available at pypi.

4.16 0.8.1

- Use shared library in python wrapper.
- Minor fixes in documentation.

Full changelog available at github

Python wrapper available at pypi.

4.17 0.8.0

- Back to the approach with a library.
- Compatible with fpm.
- Configuration file for setting all the environmental variables.
- Global makefile for building a static library (through fpm) and a shared library.
- Automatic copy of the necessary sources for the python wrapper.
- Python wrapper built with the static library
  - no dependency on a shared library.
  - sources and static library embeded in the python wrapper.
- FORD for documenting the Fortran code.
- Integration of the FORD documentation into the main documentation with sphinx.

Full changelog available at github

Python wrapper available at pypi.

4.18 0.7.1

- Minor fixes in generator code
- Add automatic copy of c sources for the python wrapper.

Full changelog available at github

Python wrapper available at pypi.

4.19 0.7.0

- Migrate documentation from doxygen to sphinx+breathe.
- Add YEAR constant indicating the year of the codata constants.
- Refractoring

Full changelog available at github

Python wrapper available at pypi.

4.20 0.6.0

- Created documentation.
- Fixed missing uncertainties for Cpython.

Full changelog available at github

Python wrapper available at pypi.

4.21 0.5.0

- Changed the complete approach by not generating a library but only source files for different languages.
- Available languages: Fortran, C, python, CPython

Full changelog available at github

Python wrapper available at pypi.

4.22 0.4.0

- Bring back pywrapper in the codata repository to sync versions.
- Improvements of the documentation.

Full changelog available at github

Python wrapper available at pypi.

4.23 0.3.0

- Only last codata constants.

Full changelog available at github

Python wrapper available at pypi.

4.24 0.2.1

- Integration of Intel Fortran compiler and MSVC in cmake scripts.
- Add specifications and instructions for compiling on Windows

Full changelog available at github

Python wrapper available at pypi.

4.25 0.2.0

- Bug fixes for the codata 2010.
- Bug fixes in the tests linked to the codata 2010.
- Add python wrapper for the number of constants method.

Full changelog available at github

Python wrapper available at pypi.

4.26 0.1.0

Implementation of:

- the parser of the codata raw data
- the generator of the Fortran modules
- the C API and C header
- the python wrapper (will be moved to its repository next release).

Full changelog available at github

Python wrapper available at pypi.

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[1] Peter J Mohr, Barry N Taylor, and David B. Newell. CODATA recommended values of the fundamental physical constants: 2010. *Review of Modern Physics*, 2012.

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[3] Peter J Mohr, Barry N Taylor, and David B. Newell. CODATA recommended values of the fundamental physical constants: 2018. *Review of Modern Physics*, 2021.

[4] Peter Mohr, David Newell, Barry Taylor, and Eite Tiesinga. CODATA Recommended Values of the Fundamental Physical Constants: 2022. URL: https://arxiv.org/abs/2409.03787 (visited on 2025-05-05), doi:10.48550/ARXIV.2409.03787.

[5] Peter J. Mohr, David B. Newell, Barry N. Taylor, and Eite Tiesinga. CODATA recommended values of the fundamental physical constants: 2022. *Reviews of Modern Physics*, 97(2):025002, 2025. URL: https://link.aps.org/doi/10.1103/RevModPhys.97.025002 (visited on 2025-05-05), doi:10.1103/RevModPhys.97.025002.

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