Hard set of SRSD-Feynman datasets. C: Constant, V: Variable, F: Float, I: Integer, P: Positive, N: Negative, NN: Non-Negative, I⋆: Integer treated as float due to the capacity of 32-bit integer, $\mathcal{U}$: Uniform distribution, $\mathcal{U}_{\log}$: Log-Uniform distribution.

Eq. ID	Formula	Symbols		SI Derived Unit	SI Unit	Properties		Distributions	
						Original	Ours	Original	Ours
I.6.20	$f = \exp\left(-\frac{\theta^2}{2\sigma^2}\right)/\sqrt{2\pi\sigma^2}$	f	Probability density function	1	1	V, F	V, F	N/A	N/A
		θ	Position	1	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		σ	Standard deviation	1	1	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
I.6.20a	$f = \exp\left(-\frac{\theta^2}{2}\right)/\sqrt{2\pi}$	f	Probability density function	1	1	V, F	V, F	N/A	N/A
		θ	Position	1	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
I.6.20b	$f = \exp\left(-\frac{(\theta-\theta_1)^2}{2\sigma^2}\right)/\sqrt{2\pi\sigma}$	f	Probability density function	1	1	V, F	V, F	N/A	N/A
		θ	Position	1	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		θ_1	Position	1	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		σ	Standard deviation	1	1	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
I.9.18	$F = \frac{Gm_1m_2}{(x_2-x_1)^2+(y_2-y_1)^2+(z_2-z_1)^2}$	F	Force of gravity	N	$kg \cdot m \cdot s^{-2}$	V, F	V, F	N/A	N/A
		G	Gravitational constant	$m^3 \cdot kg^{-1} \cdot s^{-2}$	$kg^{-1} \cdot m^3 \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,2)$	6.674×10^{-11}
		m_1	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{3})$
		m_2	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{3})$
		x_2	Position	m	m	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		x_1	Position	m	m	V, F	V, F	$\mathcal{U}(3,4)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		y_2	Position	m	m	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		y_1	Position	m	m	V, F	V, F	$\mathcal{U}(3,4)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		z_2	Position	m	m	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		z_1	Position	m	m	V, F	V, F	$\mathcal{U}(3,4)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
I.15.3t	$t_1 = \frac{t-ux/c^2}{\sqrt{1-u^2/c^2}}$	t_1	Time	s	s	V, F	V, F	N/A	N/A
		t	Time	s	s	V, F	V, F, NN	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-6},10^{-4})$
		u	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{5},10^{7})$
		x	Position	m	m	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{0},10^{2})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(3,10)$	2.998×10^{8}
I.15.3x	$x_1 = \frac{x-ut}{\sqrt{1-u^2/c^2}}$	x_1	Position	m	m	V, F	V, F	N/A	N/A
		x	Position	m	m	V, F	V, F	$\mathcal{U}(5,10)$	$\mathcal{U}_{\log}(10^{0},10^{2})$
		u	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{6},10^{8})$
		t	Time	s	s	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{-6},10^{-4})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(3,20)$	2.998×10^{8}
I.29.16	$x = \sqrt{x_1^2+x_2^2+2x_1x_2\cos(\theta_1-\theta_2)}$	x	Wavelength	m	m	V, F	V, F, P	N/A	N/A
		x_1	Wavelength	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		x_2	Wavelength	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		θ_1	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(1,5)$	$\mathcal{U}(0,2\pi)$
		θ_2	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(1,5)$	$\mathcal{U}(0,2\pi)$
I.30.3	$I = I_0\frac{\sin^2(n\theta/2)}{\sin^2(\theta/2)}$	I	Amplitude of combined wave	1	1	V, F	V, F	N/A	N/A
		I_0	Amplitude of wave	1	1	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		n	The number of waves	1	1	V, F	V, I,P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		θ	Phase difference	rad	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}(-2\pi,2\pi)$
I.32.17	$P = \left(\frac{1}{2}\epsilon cE^2\right)\left(\frac{8\pi r^2}{3}\right)\left(\frac{\omega^4}{(\omega^2-\omega_0^2)^2}\right)$	P	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	N/A	N/A
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,2)$	8.854×10^{-12}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	2.998×10^{8}
		E	Magnitude of electric field	m	m	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		r	Radius	m	m	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		ω	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		ω_0	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F	$\mathcal{U}(3,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
I.34.14	$\omega = \frac{1+v/c}{\sqrt{1-v^2/c^2}}\omega_0$	ω	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F	N/A	N/A
		v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{6},10^{8})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(3,10)$	2.998×10^{8}
		ω_0	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
I.37.4	$I_{12} = I_1 + I_2 + 2\sqrt{I_1I_2}\cos\delta$	I_{12}	Amplitude of wave	m	m	V, F	V, F, P	N/A	N/A
		I_1	Amplitude of wave	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{-3})$
		I_2	Amplitude of wave	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{-3})$
		δ	Phase difference	rad	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}(0,\pi)$
I.39.22	$P = \frac{nkT}{V}$	P	Pressure	Pa	$kg \cdot m^{-1} \cdot s^{-2}$	V, F	V, F, P	N/A	N/A
		n	Number of molecules	1	1	V, F	V, I⋆, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		V	Volume	m^3	m^3	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-5},10^{-3})$
I.40.1	$n = n_0\exp(-mgx/kT)$	n	Molecular density	$1/m^3$	m^{-3}	V, F	V, F, P	N/A	N/A
		n_0	Molecular density	$1/m^3$	m^{-3}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{25},10^{27})$
		m	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-24},10^{-22})$
		g	Gravitational acceleration	m/s^2	$m \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,5)$	9.807×10^{0}
		x	Height	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
I.41.16	$L_{\mathrm{rad}} = \frac{h}{2\pi}\frac{\omega^3}{\pi^2c^2(\exp(h\omega/2\pi kT)-1)}$	L_{rad}	Radiation per frequency	J/m^2	$kg \cdot s^{-2}$	V, F	V, F, P	N/A	N/A
		h	Planck constant	$J \cdot s$	$kg \cdot m^2 \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	6.626×10^{-34}
		ω	Frequency of electromagnetic wave	$1/s$	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	2.998×10^{8}
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
I.44.4	$Q = nkT\ln(\frac{V_2}{V_1})$	Q	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	N/A	N/A
		n	Number of molecules	1	1	V, F	V, I⋆, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		V_2	Volume	m^3	m^3	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-5},10^{-3})$
		V_1	Volume	m^3	m^3	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-5},10^{-3})$
I.50.26	$x = K(\cos\omega t + \epsilon\cos^2\omega t)$	x	Amplitude	1	1	V, F	V, F	N/A	N/A
		K	Amplitude	1	1	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		ω	Angular velocity	rad/s	s^{-1}	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		t	Time	s	s	V, F	V, F, NN	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		ϵ	Variable	1	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
II.6.15a	$E = \frac{p}{4\pi\epsilon}\frac{3z}{r^5}\sqrt{x^2+y^2}$	E	Electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	N/A	N/A
		p	Electric dipole moment	$C \cdot m$	$m \cdot s \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-22},10^{-20})$
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,3)$	8.854×10^{-12}
		z	Position	m	m	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
		x	Position	m	m	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
		y	Position	m	m	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
II.6.15b	$E = \frac{p}{4\pi\epsilon}\frac{3\cos\theta\sin\theta}{r^3}$	E	Electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	N/A	N/A
		p	Electric dipole moment	$C \cdot m$	$m \cdot s \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-22},10^{-20})$
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,3)$	8.854×10^{-12}
		θ	Angle	rad	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}(0,\pi)$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
II.11.17	$n = n_0\left(1+\frac{p_0E\cos\theta}{kT}\right)$	n	Number of polar molecules per angle per unit volume	$1/(m^3 \cdot rad \cdot sr)$	m^{-3}	V, F	V, F	N/A	N/A
		n_0	Number of molecules per unit volume	$1/(m^3 \cdot sr)$	m^{-3}	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{27},10^{29})$
		p_0	Electric dipole moment	$C \cdot m$	$m \cdot s \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-22},10^{-20})$
		E	Magnitude of electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		θ	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(1,3)$	$\mathcal{U}(0,2\pi)$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,3)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
II.11.20	$P = \frac{n_0p_0^2E}{3kT}$	P	Polarizability	C/m^2	$m^{-2} \cdot s \cdot A$	V, F	V, F	N/A	N/A
		n_0	Number of atom	1	1	V, F	V, I⋆, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		p_0	Electric dipole moment	$C \cdot m$	$m \cdot s \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-22},10^{-20})$
		E	Magnitude of electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
II.11.27	$P = \frac{N\alpha}{1-(n\alpha/3)}\epsilon E$	P	Polarizability	C/m^2	$m^{-2} \cdot s \cdot A$	V, F	V, F	N/A	N/A
		N	Number of atom	1	1	V, F	V, I⋆, P	$\mathcal{U}(0,1)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		α	Molecular polarizability	1	1	V, F	V, F, P	$\mathcal{U}(0,1)$	$\mathcal{U}_{\log}(10^{-33},10^{-31})$
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,2)$	8.854×10^{-12}
		E	Magnitude of electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
II.11.28	$\kappa = 1+\frac{N\alpha}{1-(N\alpha/3)}$	κ	Electric dipole moment per unit volume	1	1	V, F	V, F	N/A	N/A
		N	Number of electric dipoles	1	1	V, F	V, I⋆, P	$\mathcal{U}(0,1)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		α	Molecular polarizability	1	1	V, F	V, F, P	$\mathcal{U}(0,1)$	$\mathcal{U}_{\log}(10^{-33},10^{-31})$
II.13.23	$\rho = \frac{\rho_0}{\sqrt{1-v^2/c^2}}$	ρ	Electric charge density	C/m^3	$m^{-3} \cdot s \cdot A$	V, F	V, F, P	N/A	N/A
		ρ_0	Electric charge density	C/m^3	$m^{-3} \cdot s \cdot A$	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{27},10^{29})$
		v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{6},10^{8})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(3,10)$	2.998×10^{8}
II.13.34	$j = \frac{\rho_0v}{\sqrt{1-v^2/c^2}}$	j	Electric current	A	A	V, F	V, F	N/A	N/A
		ρ_0	Electric charge density	C/m^3	$m^{-3} \cdot s \cdot A$	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{27},10^{29})$
		v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{6},10^{8})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(3,10)$	2.998×10^{8}
II.24.17	$k = \sqrt{\omega^2/c^2-\pi^2/a^2}$	k	Wavenumber	$1/m$	m^{-1}	V, F	V, F, P	N/A	N/A
		ω	Angular velocity	rad/s	s^{-1}	V, F	V, F	$\mathcal{U}(4,6)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	2.998×10^{8}
		a	Length	m	m	V, F	V, F, P	$\mathcal{U}(2,4)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
II.35.18	$a = \frac{N}{\exp(\mu B/kT)+\exp(-\mu B/kT)}$	a	Number of atoms with the equivalent magnetic moment	$1/m^3$	m^{-3}	V, F	V, I⋆, P	N/A	N/A
		N	Number of atoms per unit volume	$1/m^3$	m^{-3}	V, F	V, I⋆, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		μ	Magnetic moment	N/A^2	$kg \cdot m \cdot s^{-2} \cdot A^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-25},10^{-23})$
		B	Magnetic flux density	A/m	$m^{-1} \cdot A$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,3)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
II.35.21	$M = N\mu\tanh\left(\frac{\mu B}{kT}\right)$	M	Number of magnetized atoms	1	1	V, F	V, I⋆, P	N/A	N/A
		N	Number of atom	1	1	V, F	V, I⋆, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		μ	Magnetic moment	N/A^2	$kg \cdot m \cdot s^{-2} \cdot A^{-2}$	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-25},10^{-23})$
		B	Magnetic flux density	A/m	$m^{-1} \cdot A$	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
II.36.38	$x = \frac{\mu H}{kT}+\frac{\mu\lambda}{\epsilon c^2kT}M$	x	Parameter of magnetization	1	1	V, F	V, F	N/A	N/A
		μ	Magnetic moment	N/A^2	$kg \cdot m \cdot s^{-2} \cdot A^{-2}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-25},10^{-23})$
		H	Magnetic field strength	A/m	$m^{-1} \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,3)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		λ	Constant	1	1	V, F	V, F, NN	$\mathcal{U}(1,3)$	$\mathcal{U}(0,1)$
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,3)$	8.854×10^{-12}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,3)$	2.998×10^{8}
		M	Number of magnetized atoms	1	1	V, F	V, I⋆, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
III.4.33	$E = \frac{h\omega}{2\pi(\exp(h\omega/2\pi kT)-1)}$	E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	N/A	N/A
		h	Planck constant	$J \cdot s$	$kg \cdot m^2 \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	6.626×10^{-34}
		ω	Frequency	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		k	Boltzmann constant	J/K	$kg \cdot m^2 \cdot s^{-2} \cdot K^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	1.381×10^{-23}
		T	Temperature	K	K	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
III.9.52	$P_{\mathrm{I}\rightarrow\mathrm{II}} = \left(\frac{2\pi\mu Et}{h}\right)^2\frac{\sin^2((\omega-\omega_0)t/2)}{((\omega-\omega_0)t/2)^2}$	$P_{\mathrm{I}\rightarrow\mathrm{II}}$	Probability	1	1	V, F	V, F, NN	N/A	N/A
		μ	Electric dipole moment	$C \cdot m$	$m \cdot s \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-22},10^{-20})$
		E	Magnitude of electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		t	Time	s	s	V, F	V, F, NN	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-18},10^{-16})$
		h	Planck constant	$J \cdot s$	$kg \cdot m^2 \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,3)$	6.626×10^{-34}
		ω	Frequency	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		ω_0	Resonant frequency	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
III.10.19	$E = \mu\sqrt{B_x^2+B_y^2+B_z^2}$	E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	N/A	N/A
		μ	Magnetic moment	N/A^2	$kg \cdot m \cdot s^{-2} \cdot A^{-2}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-25},10^{-23})$
		B_x	Element of magnetic field	A/m	$m^{-1} \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		B_y	Element of magnetic field	A/m	$m^{-1} \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		B_z	Element of magnetic field	A/m	$m^{-1} \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
III.21.20	$J = -\rho\frac{q}{m}A$	J	Electric Current	A	A	V, F	V, F	N/A	N/A
		ρ	Electric charge density	C/m^3	$m^{-3} \cdot s \cdot A$	V, F	V, F, N	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{27},10^{29})$
		q	Electric charge	C	$s \cdot A$	V, F	V, F, N	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
		A	Magnetic vector potential	$V \cdot s/m$	$kg \cdot m \cdot s^{-2} \cdot A \cdot -1$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		m	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-30},10^{-28})$
B1	$A = \left(\frac{Z_1Z_2\alpha hc}{4E\sin^2(\theta/2)}\right)^2$	A	Differential scattering cross section	m^2/sr	m^2	V, F	V, F	N/A	N/A
		Z_1	Atomic number	1	1	V, F	V, I,P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		Z_2	Atomic number	1	1	V, F	V, I,P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		α	Fine structure constant	1	1	V, F	C, F, P	$\mathcal{U}(1,5)$	7.297×10^{-3}
		h	Dirac's constant	$J \cdot s$	$kg \cdot m^2 \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	1.055×10^{-34}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	2.998×10^{8}
		E	Non-relativistic kinetic energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-18},10^{-16})$
		θ	Scattering angle	rad	1	V, F	V, F, NN	$\mathcal{U}(1,3)$	$\mathcal{U}(0,2\pi)$
B2	$k = \frac{mk_G}{L^2}\left(1+\sqrt{1+\frac{2EL^2}{mk_G^2}}\cos(\theta_1-\theta_2)\right)$	k	Inverse Radius	$1/m$	m^{-1}	V, F	V, F	N/A	N/A
		m	Mass (The Earth)	kg	kg	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		k_G	Variable	$J \cdot m$	$kg \cdot m^3 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		L	Angular Momentum	$N \cdot m$	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{25},10^{27})$
		θ_1	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$
		θ_2	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$
B3	$r = \frac{d(1-\alpha^2)}{1+\alpha\cos(\theta_1-\theta_2)}$	r	Distance	m	m	V, F	V, F, P	N/A	N/A
		d	Semimajor axis of elliptical orbit	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		α	Orbital eccentricity	1	1	V, F	V, F, P	$\mathcal{U}(2,4)$	$\mathcal{U}(0,1)$
		θ_1	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(4,5)$	$\mathcal{U}(0,2\pi)$
		θ_2	Angle	rad	1	V, F	V, F, NN	$\mathcal{U}(4,5)$	$\mathcal{U}(0,2\pi)$
B4	$v = \sqrt{\frac{2}{m}\left(E-U-\frac{L^2}{2mr^2}\right)}$	v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F, P	N/A	N/A
		m	Mass (The Earth)	kg	kg	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(8,12)$	$\mathcal{U}_{\log}(10^{25},10^{27})$
		U	Potential energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{25},10^{27})$
		L	Angular momentum	$N \cdot m$	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
B5	$t = \frac{2\pi d^{3/2}}{\sqrt{G(m_1+m_2)}}$	t	Orbital period	s	s	V, F	V, F, P	N/A	N/A
		d	Semimajor axis of elliptical orbit	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		G	Gravitational constant	$m^3 \cdot kg^{-1} \cdot s^{-2}$	$kg^{-1} \cdot m^3 \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,3)$	6.674×10^{-11}
		m_1	Mass (The Earth)	kg	kg	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		m_2	Mass (The Earth)	kg	kg	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
B6	$\alpha = \sqrt{1+\frac{2\epsilon^2EL^2}{m(Z_1Z_2q^2)^2}}$	α	Orbital eccentricity	1	1	V, F	V, F, P	N/A	N/A
		ϵ	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-18},10^{-16})$
		E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-18},10^{-16})$
		L	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-10},10^{-8})$
		m	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-30},10^{-28})$
		Z_1	Atomic number	1	1	V, F	V, I,P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		Z_2	Atomic number	1	1	V, F	V, I,P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{0},10^{1})$
		q	Electric charge	C	$s \cdot A$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
B7	$H = \sqrt{\frac{8\pi G\rho}{3}-\frac{k_fc^2}{a_f^2}}$	H	Hubble's constant	$1/s$	s^{-1}	V, F	V, F, P	N/A	N/A
		G	Gravitational constant	$m^3 \cdot kg^{-1} \cdot s^{-2}$	$kg^{-1} \cdot m^3 \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,3)$	6.674×10^{-11}
		ρ	Density of the Universe	kg/s^3	$kg \cdot s^{-3}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-27},10^{-25})$
		k_f	Spacetime curvature	$1/m^2$	m^{-2}	V, F	V, I	$\mathcal{U}(1,2)$	$\mathcal{U}(-1,1)$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	2.998×10^{8}
		a_f	Radius	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
B9	$P = -\frac{32}{5}\frac{G^4}{c^5}\frac{(m_1m_2)^2(m_1+m_2)}{r^5}$	P	Gravitational wave energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	N/A	N/A
		G	Gravitational constant	$m^3 \cdot kg^{-1} \cdot s^{-2}$	$kg^{-1} \cdot m^3 \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,2)$	6.674×10^{-11}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,2)$	2.998×10^{8}
		m_1	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		m_2	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{23},10^{25})$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
B10	$\cos\theta_1 = \frac{\cos\theta_2-v/c}{(1-v/c)\cos\theta_2}$	$\cos\theta_1$	Value	1	1	V, F	V, F	N/A	N/A
		θ_2	Angle	rad	1	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}(0,2\pi)$
		v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{5},10^{7})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(4,6)$	2.998×10^{8}
B11	$I = I_0\left(\frac{\sin(\alpha/2)}{\alpha/2}\frac{\sin(N\delta/2)}{\sin(\delta/2)}\right)^2$	I	Wave intensity	1	1	V, F	V, F, P	N/A	N/A
		I_0	Amplitude of wave	1	1	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		α	Wavelength of X-ray	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
		N	Number of phase difference	1	1	V, F	V, I,P	$\mathcal{U}(1,2)$	$\mathcal{U}_{\log}(10^{0},10^{2})$
		δ	Wavelength of X-ray	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
B12	$F = \frac{q}{4\pi\epsilon y^2}\left(4\pi\epsilon V_ed-\frac{qdy^3}{(y^2-d^2)^2}\right)$	F	Force	N	$kg \cdot m \cdot s^{-2}$	V, F	V, F	N/A	N/A
		q	Electric charge	C	$s \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		ϵ	Vacuum permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	C, F, P	$\mathcal{U}(1,5)$	8.854×10^{-12}
		y	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		V_e	Voltage	V	$kg \cdot m^2 \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		d	Distance	m	m	V, F	V, F, P	$\mathcal{U}(4,6)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
B13	$V_e = \frac{q}{4\pi\epsilon\sqrt{r^2+d^2-2dr\cos\alpha}}$	V_e	Potential	V	$kg \cdot m^2 \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	N/A	N/A
		ϵ	permittivity	F/m	$kg^{-1} \cdot m^{-3} \cdot s^4 \cdot A^2$	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-12},10^{-10})$
		q	Electric charge	C	$s \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-3},10^{-1})$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		d	Distance between dipoles	m	m	V, F	V, F, P	$\mathcal{U}(4,6)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		α	Angle	rad	1	V, F	V, F	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$
B14	$V_e = E_f\cos\theta\left(\frac{\alpha-1}{\alpha+2}\frac{d^3}{r^2}-r\right)$	V_e	Potential (out)	V	$kg \cdot m^2 \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	N/A	N/A
		E_f	Magnitude of electric field	V/m	$kg \cdot m \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		θ	Angle	rad	1	V, F	V, F	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$
		r	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		d	Radius of dielectric sphere	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-2},10^{0})$
		α	Polarizability	1	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
B15	$\omega_0 = \frac{\sqrt{1-\frac{v^2}{c^2}}}{1+\frac{v}{c}\cos\theta}\omega$	ω_0	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F	N/A	N/A
		v	Velocity	m/s	$m \cdot s^{-1}$	V, F	V, F, P	$\mathcal{U}(1,3)$	$\mathcal{U}_{\log}(10^{5},10^{7})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(5,20)$	2.998×10^{8}
		ω	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		θ	Angle	rad	1	V, F	V, F	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$
B16	$E = qV_e+\sqrt{(p-qA)^2c^2+m^2c^4}$	E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	N/A	N/A
		p	Momentum	$kg \cdot m/s$	$kg \cdot m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-9},10^{-7})$
		q	Electric charge	C	$s \cdot A$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
		A	Vector potential	$V \cdot s/m$	$kg \cdot m \cdot s^{-2} \cdot A \cdot -1$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	2.998×10^{8}
		m	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-30},10^{-28})$
		V_e	Voltage	V	$kg \cdot m^2 \cdot s^{-3} \cdot A^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
B17	$E = \frac{1}{2m}\left(p^2+m^2\omega^2x^2\left(1+\alpha\frac{x}{y}\right)\right)$	E	Energy	J	$kg \cdot m^2 \cdot s^{-2}$	V, F	V, F	N/A	N/A
		m	Mass	kg	kg	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-30},10^{-28})$
		p	Momentum	$kg \cdot m/s$	$kg \cdot m \cdot s^{-1}$	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-9},10^{-7})$
		ω	Frequency of electromagnetic waves	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		x	Position	m	m	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
		α	Deviation from the harmonic oscillator	1	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-1},10^{1})$
		y	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{-11},10^{-9})$
B19	$p_f = -\frac{1}{8\pi G}\left(\frac{c^4k_f}{a_f^2}+c^2H^2(1-2\alpha)\right)$	p_f	Pressure	Pa	$kg \cdot m^{-1} \cdot s^{-2}$	V, F	V, F	N/A	N/A
		G	Gravitational constant	$m^3 \cdot kg^{-1} \cdot s^{-2}$	$kg^{-1} \cdot m^3 \cdot s^{-2}$	V, F	C, F, P	$\mathcal{U}(1,5)$	6.674×10^{-11}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	2.998×10^{8}
		k_f	Variable	1	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{1},10^{3})$
		a_f	Distance	m	m	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{8},10^{10})$
		H	Hubble's Constant	$1/s$	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{0},10^{2})$
		α	Variable	1	1	V, F	V, F	$\mathcal{U}(1,5)$	$\mathcal{U}(-10,10)$
B20	$A = \frac{\alpha^2h^2}{4\pi m^2c^2}\left(\frac{\omega_0}{\omega}\right)^2\left(\frac{\omega_0}{\omega}+\frac{\omega}{\omega_0}-\sin^2\theta\right)$	A	Differential cross section	m^2/sr	m^2	V, F	V, F	N/A	N/A
		α	Fine structure constant	1	1	V, F	C, F, P	$\mathcal{U}(1,5)$	7.297×10^{-3}
		h	Planck constant	$J \cdot s$	$kg \cdot m^2 \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	6.626×10^{-34}
		m	Electron mass	kg	kg	V, F	C, F, P	$\mathcal{U}(1,5)$	9.109×10^{-31}
		c	Speed of light	m/s	$m \cdot s^{-1}$	V, F	C, F, P	$\mathcal{U}(1,5)$	2.998×10^{8}
		ω_0	Frequency	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		ω	Frequency	rad/s	s^{-1}	V, F	V, F, P	$\mathcal{U}(1,5)$	$\mathcal{U}_{\log}(10^{9},10^{11})$
		θ	Scattering angle	rad	1	V, F	V, F	$\mathcal{U}(0,6)$	$\mathcal{U}(0,2\pi)$