Periodic Table of the Elements

[a													0			
He 完 Helium	2p 10 2p Ne 気 Neon Neon no.1797(6)	3p 18 3 Ar 凱	Argon 39.948(1)	4p 36 3.00 4j	Krypton	83.798(2)	5p 54 2.60 5p	Xenon	131.293(6)	se 2.2 6p Rn氢	Radon	(222)	7p 1118 7p	Og	Oganesson	(294)
	3.98 F 氧	3p 17 3.16 3p C1 氨	Chlorine 35.446-35.457	4p 35 2.96 4p	Bromine	79.901-79.907	5p 53 2.66 5p	Iodine 7	126.90447(3)	6p 85 2.2 6p 86 2.2 El At 4 RN Rn	Astatine	(210)		$^{\mathrm{L}}$	Tennessine	(29-4)
	8 3.44 2p 9 O 氧 O 氧 O 文vgcm 15.39901-15.3997	3p 16 2.58 3p S 硫	Sulphur 32.039-32.076		Selenium	78.971(8)		Tellurium	127.60(3)		Polonium	(209)	16 7p 117	Lv 欽	Livermorium	(293)
	3.04 2p N 39 Nitrogen		Phosphorus 30.973761998(3)	33 <u>2.18</u> 4p 3 As 福	Arsenic	74.921595(6)	51 2.05 5p t	Antimony	121.760(1)	83 <u>2.02</u> 6p 8 Bi 铋		208.98040(1)	15 7p 116	Mc 馍	Moscovium	(289)
	2.55 2p C 概 Garbon	3p 14 190 3p 15 219 Si 硅 P 碳	Silicon 28.084-28.086	4p 32 201 4p 33 2.18 4p 34 2.55	Germanium	72.630(8)	5p 50 1.96 5p 51 2.05 5p 52 2.1 3		118.710(7)	82 1.87 69 8 Pb 铅		207.2(1)	14 7p 115	Fl 鈇 Mc 镆 Lv 鉝	Flerovium	(289)
	5 2.04 2p 6 Boron 10300-1031	13 1.61 3p 1 A1 铝	Aluminium 26.9815385(7)	1 500		09.723(1)			114.818(1)	72 1.3 sed75 1.5 sed74 2.35 sd75 1.2 sd76 2.2 sd77 2.20 sd78 2.25 sd7 79 2.5d sd7 8 2.00 sd 81 1.02 sp 62 1.27 sp 68 2.02 sp 84 2.0 Hf 铪 Ta 钼 W 钨 Re 铼 Os 锇 Ir 铱 Pt 铂 Au 余 Hg 汞 Ti 钦 Pb 铪 Bi 铋 Po ś		204.382-204.385	13 7p 114	Np 龄	Nihonium	(386)
	10	2		34 72 154 34 23 163 34 24 163 34 25 153 34 26 153 34 27 158 34 25 151 34 29 159 34 30 153 34 31 151 45 152 34 31 151 45 152 34 31 151 45 152 34 31 151 45 152 34 31 151 45 152 34 31 151 45 151 45 151 45 151 45 151 45 151 45 151 451 4	Zinc	65.38(2)	4d 44 22 4d* 45 228 4d* 46 220 4d* 47 1.93 4d* 48 1.69 4d 49 1.78 et P., £7 P., £4 P. 40 40 40 40 40 40 40 40 40 40 40 40 40		112.414(4)	80 2.00 5d 8: Hg 汞	Mercury	200.592(3)	2 6d 113	Cu 鍋 Nh 鉛	Copernicium	(285)
				29 1.90 3d* 30 Cu 铂		63.546(3)	47 1.93 4d* 48		107.8682(2)	2.54 54* 80 \11 余]		196.966569(5)	p9	Rg 鑑	Roentgenium	(282)
				28 1.91 3d 29 Ni 韓 (58.4934(4)	46 2.20 4d* 47 D.4 4m	Palladium	105.42(1)	78 <u>2.28</u> 54* 79 <u>2.54</u> 54* Pt 铂 Au 余	Platinum	195.084(9)	64 111)s 罐]	Darmstadtium R	(281)
	o			Co \$\frac{1.88}{54} \frac{28}{3}		58.933194(4)	45 2.28 4d* 46 Bb 49 I		102.90550(2)	7 <u>2.20</u> 5d 78 Ir 铱 I		192.217(3)	011 29	Hs □ Mt 鎵 Ds 鍏	Meitnerium Da	(278)
	ss = subshell; standard atomi			26 1.83 3d 27 Fp 铁	Iron	55.845(2) 58	44 2.2 4d* 45 D., £7 D.	Ruthenium R	101.07(2) 10	76 2.2 5d 77 Os 锇 I		190.23(3)	601 109		Hassium Me	(269)
	Z=atomic number, eneg $=$ electronegativity; ss $=$ subshell; $Sy=Symbol,$ Name $=$ element name, saw $=$ standard atomic weight			.55 3d 26 j	Manganese	54.938044(3) 52			(98)	75 $^{1.9}$ 5d 76 Re 铼 $ $ O		186.207(1)	pç	Bh 🗆 H	Bohrium H.	(320)
	oer; eneg = ele tme = element			24 1.66 3d* 25 1.55 3d Cr 铃 Mn 铥	minm Man	51.9961(6) 54.90	6 4d* 43 J	denum Tock		\mathbf{W} 鈞 \mathbf{R}			7			(690)
	Z = atomic numl Sy = Symbol, Na weight			3d 24 1.6			41 16 44* 42 2.16 44* NIS 48 MG 48	m Molybdenum	7(2) 95.95(1)	5d 74 2.3		8(2) 183.8	901 29		m Seaborgium	
	SS Sy wei	1		3d 23 1.63 3d		50.9415(1)	4d 41 1.6		92.90637(2)	5d 73 1.5 5d 合 Ta 钽		180.943	105	<u>م</u>	Dubn	(268)
	\mathbf{z} eneg \mathbf{S} \mathbf{y}			3d 22 1.54 3c		47.867(1)	4d 40 1.33 4d 41 1.6 4d* 42 2.16 4d* 43 1.9 7.5 生 NIP 经图 NA 经图 TP 生	Zirconium	91.224(2)			178.49(2)	104	Rf 鏞	Rutherfordium	(261)
	8	00		21 1.36 Sr 针		44.955908(5)	s 39 1.22 ·	Yttrium	88.30584(2)	857-71 (編系	Lanthanides		s 89-103	置外	Actinides	
	4 1.57 2.4 Be 锁 Beryllum	12 131 3. Mg 镁	Magnesium 24.304-24.307		Calcium	40.078(4)	58 0.95 5.	Strontium	87.62(1)	55 0.79 68 56 0.89 68 57-71 Cs 铯 Ba 钡 铺	Barium	137.327(7)	87 0.7 78 88 0.9 78 89-103	Ra 镭	Radium	(226)
2.20 1s H 氢 Hydrogen 1.00784-1.00811	0.98 28 Li 锂 Lithium	11 093 38 12 131 Na 钠 Mg	Sodium 22.98976928(2)	19 0.82 4s 20 1.00 K 舗 Ca 4	Potassium	39.0983(1)	37 0.82 5s Bb 结加	Rubidium	85.4678(3)	5 <u>0.79</u> 68 Cs 铯	Cesium	132.90545195(6)	7 0.7 78	Pr 纺	Francium	(223)

Standard atomic weights taken from the Commission on totopic Abundances and Atomic Weights (http://ctaas.org/stonfc-weights.htm). Adapted from Ivan Griffin's WTpX Periodic Table. © 2017 Paul Danese

103 <u>1.3</u> 5/ **Lr 铹** Lawrencium

数 Pm 値 Liu 4 (62 Liu 4/68 Liu 4/68 Liu 4/66 Liu 4/66

Neodymium
144.34(3)
92 1.38 5f* 9
U ##
Uranium
238.0380(3)

91 1.5 5f* 1 Pa 镤

蜀米

* 59 1.13 4/ Pr 错

镧系

71 1.27 4/ **Lu 镥** Lutetium

An asterisk (*) next to a subshell indicates an anomalous (Aufbau rule-breaking) ground state electron configuration.