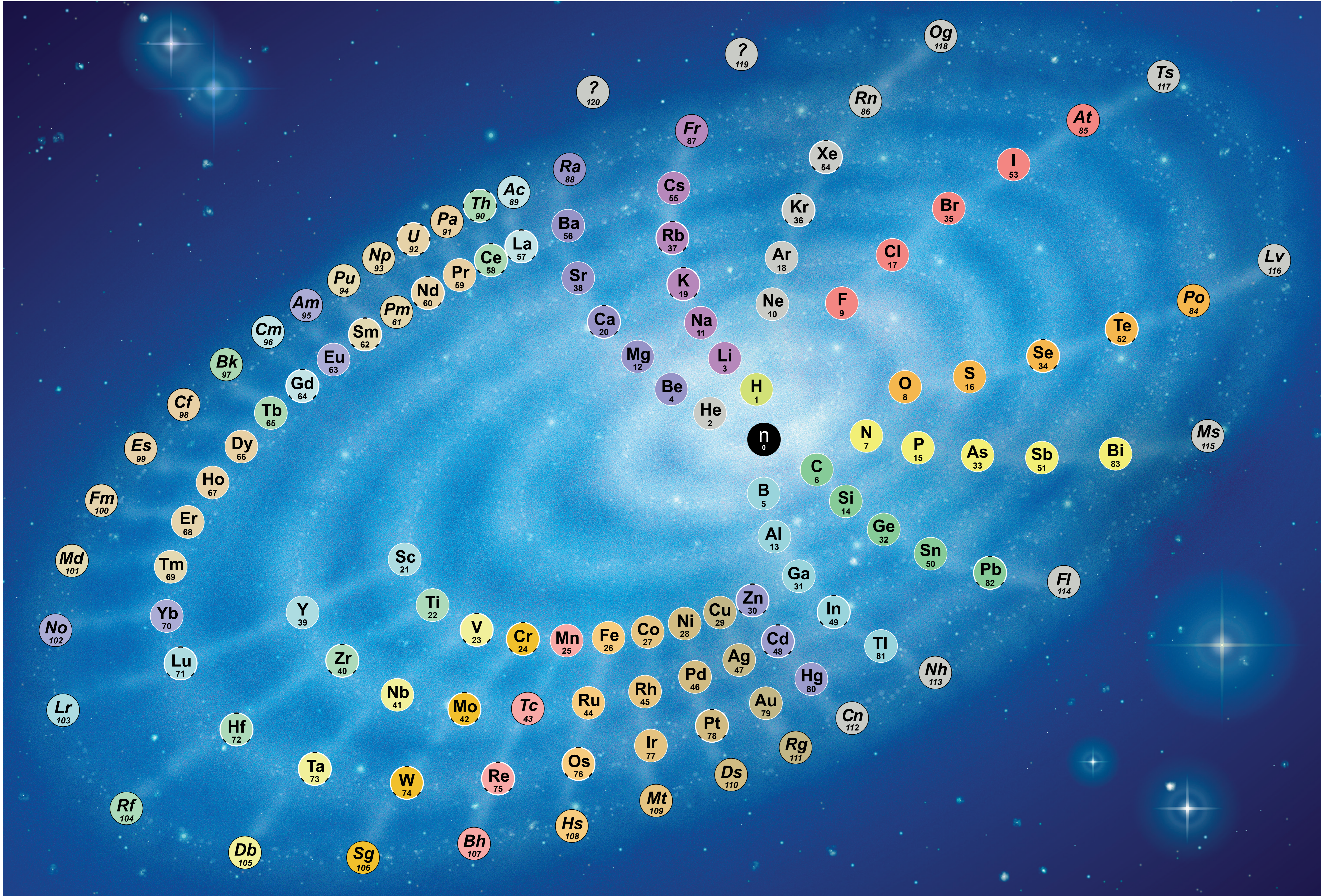


CHEMICAL GALAXY III

A NEW VISION OF THE PERIODIC SYSTEM OF THE ELEMENTS



SYMBOL	NAME	No.	R.A.M.
Ac	Actinium	89	(227)
Ag	Silver	47	107.87
Al	Aluminium	13	26.982
Am	Americium	95	(243)
Ar	Argon	18	39.948
As	Arsenic	33	74.922
At	Astatine	85	(210)
Au	Gold	79	196.97
B	Boron	5	10.811
Ba	Barium	56	137.33
Be	Beryllium	4	9.0122
Bh	Bohrium	107	(262)
Bi	Bismuth	83	208.98
Bk	Berkelium	97	(247)
Br	Bromine	35	79.904
C	Carbon	6	12.011
Ca	Calcium	20	40.078
Cd	Cadmium	48	112.41
Ce	Cerium	58	140.12
Cf	Californium	98	(251)
Cl	Chlorine	17	35.453
Cm	Curium	96	(247)
Co	Cobalt	27	58.933
Cr	Chromium	24	51.996
Cs	Caesium	55	132.91
Cu	Copper	29	63.546
Db	Dubnium	105	(262)
Ds	Darmstadtium	110	(271)
Dy	Dysprosium	66	162.50
Eb	Erbium	68	167.26
Es	Einsteinium	99	(254)
Eu	Europium	63	151.97
F	Fluorine	9	18.998
Fe	Iron	26	55.845
Fm	Fermium	100	(257)
Fr	Francium	87	(223)
Ga	Gallium	31	69.723
Gd	Gadolinium	64	157.25
Ge	Germanium	32	72.640
H	Hydrogen	1	1.0079
He	Helium	2	4.0026
Hf	Hafnium	72	178.49
Hg	Mercury	80	200.59
Hol	Holmium	67	164.93
Hs	Hassium	108	(265)
I	Iodine	53	126.90
In	Indium	49	114.82
Ir	Iridium	77	192.22
Iron	see Fe		
K	Potassium	19	39.098
Kr	Krypton	36	83.800
La	Lanthanum	57	138.91
Lead	see Pb		
Li	Lithium	3	6.9410
Lr	Lawrencium	103	(260)
Lu	Lutetium	71	174.97
Md	Mendelevium	101	(258)
Mg	Magnesium	12	24.305
Mn	Manganese	25	54.938
Mo	Molybdenum	42	95.940
Mt	Moscovium	115	(289)
N	Nitrogen	7	14.007
Na	Sodium	11	22.990
Nb	Niobium	41	92.906
Nd	Neodymium	60	144.24
Ne	Neon	10	20.180
Ni	Nickel	28	58.693
No	Nobelium	102	(259)
Np	Neptunium	93	237.05
O	Oxygen	8	15.999
Os	Osmium	76	190.23
P	Phosphorus	15	30.974
Pb	Protactinium	91	231.04
Pd	Lead	82	207.20
Pd	Palladium	46	106.42
Pm	Promethium	61	(145)
Po	Polonium	84	(209)
Potassium	see K		
Pr	Praseodymium	59	140.91
Pt	Platinum	78	195.08
Pu	Plutonium	94	(244)
Ra	Radium	88	(226)
Rb	Rubidium	37	85.468
Rh	Rhenium	75	186.21
Rf	Rutherfordium	104	(261)
Rg	Roentgenium	111	(272)
Rh	Rhodium	45	102.91
Rn	Radon	86	(222)
Ru	Ruthenium	44	101.07
S	Sulphur	16	32.065
Sb	Antimony	51	121.76
Sc	Scandium	21	44.956
Se	Selenium	34	78.960
Sg	Seaborgium	106	(266)
Si	Silicon	14	28.086
Silver	see Ag		
Sm	Samarium	62	150.36
Sn	Tin	50	118.71
Sodium	see Na		
Sr	Strontium	38	87.620
Ta	Tantalum	73	180.95
Tb	Terbium	65	158.93
Tc	Technetium	43	(99)
Te	Tellurium	52	127.60
Th	Thorium	90	232.04
Ti	Titanium	22	47.867
Tl	Thallium	81	204.38
Tm	Thulium	69	168.93
Tungsten	see W		
U	Uranium	92	238.03
V	Vanadium	23	50.942
W	Tungsten	74	183.84
Xe	Xenon	54	131.29
Y	Yttrium	39	88.906
Yb	Ytterbium	70	173.04
Zn	Zinc	30	65.390
Zr	Zirconium	40	91.224
Cn	Copernicium	112	(285)
Fl	Flerovium	114	(289)
Lv	Livermorium	116	(293)
Ms	Moscovium	115	(289)
Nh	Nihonium	113	(286)
Og	Oganesson	118	(294)
Ts	Tennessine	117	(294)

ELECTRONIC CONFIGURATION IN GROUND STATE: EXCEPTIONS TO THE REGULAR BUILD UP OF SUBSHELLS
 From Sc to Zn: nth element has n 3d electrons, but Cr=[Ar]3d⁵4s¹; Cu=[Ar]3d¹⁰4s¹ From Y to Cd: nth element has n 4d electrons, but Nb=[Kr]4d⁴5s¹; Mo=[Kr]4d⁵5s¹; Tc=[Kr]4d⁵5s¹; Ru=[Kr]4d⁷5s¹; Rh=[Kr]4d⁸5s¹; Pd=[Kr]4d¹⁰5s⁰; Ag=[Kr]4d¹⁰5s¹ From Lu to Hg: nth element has n 5d electrons, but Pt=[Xe]4f¹⁴5d⁹6s¹; Au=[Xe]4f¹⁴5d¹⁰6s¹
 From La to Yb: nth element has n 4f electrons and no 5d, but La=[Xe]4f⁰5d¹6s²; Ce=[Xe]4f¹5d¹6s²; Gd=[Xe]4f⁷5d¹6s² From Ac to No: nth element has n 5f electrons and no 6d, but Ac=[Rn]5f⁰6d¹7s²; Th=[Rn]5f⁰6d²7s²; Pa=[Rn]5f²6d¹7s²; U=[Rn]5f³6d¹7s²; Np=[Rn]5f⁴6d¹7s²; Cm=[Rn]5f⁷6d¹7s^{2m}