

The Ratio of the Protonic Count and the Surplus Neutronic Count on the Neutronic Schemata of the Elements

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Table of the The Ratios of the Proton Count of the Elements Divided by the Number of Extra Neutrons Over and Above the Protonic Count for Each of the 92 Natural Elements

The following table lists each element according to the number of protons, electrons and neutrons contained in each one. The difference between the number of protons and the number of neutrons in each element is shown in the field of “Extra Neutrons”, meaning the number of neutrons over and above the number of protons for that particular element. The ratio that is listed for each element is derived by dividing the number of protons of a specific element by the number of extra neutrons that it contains in its nucleus above its protonic count. Then the ratio of each element is compared to the ratio of the next element on the list and noted to be either greater (incrementally so) or lesser (decrementally so) than the value of the ratio that immediately follows it on the list.

The characteristic of the ratio of a given element being either greater (incrementally so) or lesser (decrementally so) than the ratio following it on the list is then identified as being “up” or “down” relationally so to the value of the ratio immediately before it on the list. On the neutronic schemata that follow in this essay, the characteristic of being incremental (up) or decremental (down) in value of a particular ratio is then color coded either yellow or green respectively so.

With this comparative procedure of analyzing the incremental or decremental changes in the number of extra neutrons in each element, patterns of translation and centrosymmetry are established for every row of twenty elements, following the baseline design of the neutronic schemata.

Protons	Electrons	Neutrons	Extra Neutrons	Ratio	Increment	Decrement
-						
001	001	000	00	00.0		
002	002	002	00	00.0		
003	003	004	01	03.0	up	
004	004	005	01	04.0	up	
005	005	006	01	05.0	up	
006	006	006	00	00.0		down
007	007	007	00	00.0		down
008	008	008	00	00.0		down
009	009	010	01	09.0	up	
010	010	010	00	00.0		down
011	011	012	01	11.0	up	
012	012	012	00	00.0		down
013	013	014	01	13.0	up	
014	014	014	00	00.0		down
015	015	016	01	15.0	up	
016	016	016	00	00.0		down
017	017	018	01	17.0	up	
018	018	022	04	04.5		down
019	019	020	01	19.0	up	
020	020	020	00	00		down

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Obtain the ratio by dividing the number of protons in an element by the number of extra neutrons. Then compare each ratio to the next one on the list to see whether it is incremental (up) or decremental (down) in value.

Incremental Value

Decremental Value

Protons	Electrons	Neutrons	Extra Neutrons	Ratio	Increment	Decrement
021	021	024	03	07.0	up	
022	022	026	04	05.5		down
023	023	028	05	04.6		down
024	024	028	04	06.0	up	
025	025	030	05	05.0		down
026	026	030	04	06.5	up	
027	027	032	05	05.4		down
028	028	031	03	09.333	up	
029	029	035	06	04.8333		down
030	030	035	05	06.0	up	
031	031	039	08	03.875		down
032	032	041	09	03.555		down
033	033	042	09	03.666	up	
034	034	045	11	03.0909		down
035	035	045	10	03.5	up	
036	036	048	12	03.0		down
037	037	048	11	03.3636	up	
038	038	050	12	03.1666		down
039	039	050	11	03.4545	up	
040	040	051	11	03.6363	up	

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If the value of a ratio is incremental or greater than the one before it on the list, it is colored yellow (up), and if it is decremental or lesser in value to the one before it on the list, it is colored green (down).

**Incremental
Value**

**Decremental
Value**

Protons	Electrons	Neutrons	Extra Neutrons	Ratio	Increment	Decrement
041	041	052	11	03.7272	up	
042	042	054	12	03.5		down
043	043	055	12	03.58333	up	
044	044	057	13	03.384615385		down
045	045	058	13	03.461538462	up	
046	046	060	14	03.285714286		down
047	047	061	14	03.357142857	up	
048	048	064	16	03.0		down
049	049	066	17	02.882352941		down
050	050	069	19	02.631578947		down
051	051	071	20	02.55		down
052	052	076	24	02.1666		down
053	053	074	21	02.523809524	up	
054	054	077	23	02.347826087		down
055	055	077	22	02.5	up	
056	056	077	25	02.24		down
057	057	082	25	02.28	up	
058	058	082	24	02.41666	up	
059	059	082	23	02.565217391	up	
060	060	084	24	02.5		down

**Incremental
Value**

**Decremental
Value**

Protons	Electrons	Neutrons	Extra Neutrons	Ratio	Increment	Decrement
061	061	084	23	02.652173913	up	
062	062	088	25	02.48		down
063	063	089	26	02.423076923		down
064	064	093	29	02.206896552		down
065	065	094	29	02.24137931	up	
066	066	097	31	02.129032258		down
067	067	098	31	02.161290323	up	
068	068	099	31	02.193548387	up	
069	069	100	31	02.225806452	up	
070	070	103	33	02.121212		down
071	071	104	33	02.151515	up	
072	072	106	34	02.117647059		down
073	073	108	35	02.085714286		down
074	074	110	36	02.0555		down
075	075	111	36	02.08333	up	
076	076	114	38	02.0		down
077	077	115	38	02.026315789	up	
078	078	117	39	02.0		down
079	079	118	39	02.025641026	up	
080	080	121	41	01.951219512		down

**Incremental
Value**

**Decremental
Value**

Protons	Electrons	Neutrons	Extra Neutrons	Ratio	Increment	Decrement
081	081	123	42	01.928571429		down
082	082	126	44	01.863636		down
083	083	126	43	01.930232558	up	
084	084	125	41	02.048780488	up	
085	085	125	40	02.125	up	
086	086	136	50	01.72		down
087	087	136	49	01.775510204	up	
088	088	138	50	01.76		down
089	089	138	49	01.816326531	up	
090	090	142	52	01.730769231		down
091	091	140	49	01.857142857	up	
092	092	151	59	01.559322034		down

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**Incremental
Value**

**Decremental
Value**

The Neutronic Schemata of the Elements

1-Hydrogen and 2-Helium

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Given the fact that the element 1-Hydrogen has no neutron in its nucleus and the element 2-Helium has no extra neutron above the two protons and two neutrons in its nucleus, there is no ratio registered on the list of surplus neutrons. Therefore, elements 1-Hydrogen and 2-Helium are not assigned either a yellow or a green color coding.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

First Row: Elements 1 through 20

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

The yellow coded elements have an incremental value in their ratio of surplus neutrons to the protonic count. The green coded elements have a decremental value in their ratio of surplus neutrons to the protonic count.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Second Row: Elements 21 through 40

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

 Incremental
Value

 Decremental
Value

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Third Row: Elements 41 through 60

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

 **Incremental
Value**

 **Decremental
Value**

10

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Fourth Row: Elements 61 through 80

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

 **Incremental
Value**

 **Decremental
Value**

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Fifth Row: Elements 81 through 92

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

**Incremental
Value**

**Decremental
Value**

Potential Symmetry by Rows of Twenty Elements
Following the Baseline of the First Twenty Representative Elements
on the Neutronic Schemata of the Elements

The Planar View of the Neutronic Schemata of the Elements

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Neutrons Above the Protonic Count and their Ratios

First Row: Elements 1 through 20

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

14

The yellow coded elements have an incremental value in their ratio of surplus neutrons to the protonic count. The green coded elements have a decremental value in their ratio of surplus neutrons to the protonic count. See the previously cited table of values for each element.

Neutrons Above the Protonic Count and their Ratios

First and Second Rows: Elements 1 through 40

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

**Incremental
Value**

**Decremental
Value**

Neutrons Above the Protonic Count and their Ratios

First, Second and Third Rows: Elements 1 through 60

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

Neutrons Above the Protonic Count and their Ratios

First, Second, Third and Fourth Rows: Elements 1 through 80

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

The Neutronic Schemata of the Elements Neutrons Above the Protonic Count and their Ratios

**No Immediately Discernible
Pattern of Planar Symmetry**

First Through Fifth Rows: Elements 1 through 92

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

**Incremental
Value**

**Decremental
Value**

The Planar View

**Patterns of Translation and Centrosymmetry of the Elements
According to the Ratios of their Protonic and Surplus Neutronic Counts
on the Neutronic Schemata of the Elements**

In order to discern the distinct patterns of translation and centrosymmetry, and thus view the color-coded patterns for each row of twenty (20) elements, it is necessary to illustrate each row by itself as of the baseline on the neutronic schemata of the elements.

In the Neutronic schemata of the elements, I have been utilizing the baseline of the first twenty representative elements to define this particular schema design.

**With the patterns that follow, in my mind at least,
the twenty-element baseline for the neutronic schemata finds its validity.**

The overall planar pattern of symmetry does not reveal itself fully until we look at each particular row of twenty elements. It is then that the distinct patterns of translation and centrosymmetry make their appearance in a definitive manner.

The analysis begins with the baseline of the first twenty representative elements on the neutronic schemata of the elements. For a view of the electronic schemata of the elements, visit the web-site: www.theschemata.com on the internet.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Alternate Groupings of Translation Symmetry

First Row: Elements 3 through 20

First View: Translation Symmetry

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd

First Row: Elements 3 through 20

Second View: Translation Symmetry

61 Pm	62 Sm	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
81 Tl	82 Pb																		

6 elements

6 | 6 alternate elements

Incremental Value
20

Decremental Value

Two distinct views of a translation symmetry pattern. Note the second view contains six (3|3) elements and then 6|6 alternate colors.

The Neutronic Schemata of the Elements Neutrons Above the Protonic Count and their Ratios

A Combination of Translation and Centrosymmetry

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar	K	Ca
Centrosymmetry																			
Second Row: Elements 21 through 40																			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cu	In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce	Pr	Nd
Translation Symmetry										Translation Symmetry									
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg
81	82	83	84	85	86	87	88	89	90	91	92								
Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U								

Incremental
Value

Decremental
Value

21


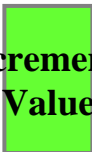
The yellow coded elements have an incremental value in their ratio of surplus neutrons to the protonic count. The green coded elements have a decremental value in their ratio of surplus neutrons to the protonic count.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

An Example of Centrosymmetry

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar	K	Ca
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35					40
<i>Third Row: Elements 41 through 60</i>										58-Ce Anomaly									
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce	Pr	Nd
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg
<i>Third Row: Elements 41 through 60</i>										Hypothetical Rendering									
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce	Pr	Nd

Incremental Value  Decremental Value 

Were element 58-Ce color coded green, then the centrosymmetry would be nearly perfect for this row of twenty elements. One wonders whether element 58 may require a remeasurement of its neutron count.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Alternate Patterns of Centrosymmetry

Fourth Row: Elements 61 through 80

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar	K	Ca
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce	Pr	Nd
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg
81	82	83	84	85	86	87	88	89	90	91	92								
Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U								

Incremental
Value

Decremental
Value

23

Note how the patterns of elements 66 -70 show reverse colors from the patterns of elements 61 -65 and 71-75.
Elements 76 through 80 reveal an alternating pattern.

The Neutronic Schemata of the Elements Neutrons Above the Protonic Count and their Ratios

An Alternative Grouping of Translation Symmetry

Fourth Row: Elements 61 through 80

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	3 and 3 3 alternate elements						60 Nd	
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental Value **Decremental Value**

Note how the patterns of elements 72-80 reflect the translation symmetry pattern of 3 green elements and then followed by 3 | 3 alternate colored elements. This pattern is similar to the second view of elements 3-20.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

A Grouping of Translation Symmetry

Fifth Row: Elements 81 through 92

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca	
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr	
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd	
4 elements				64 Gd	65 Tb	66 Dy	4 4 elements				71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U									

Incremental
Value

Decremental
Value

The combinatorial symmetry on this row is similar to the patterns on rows one and four.

The Neutronic Schemata of the Elements

Composite View

Neutrons Above the Protonic Count and their Ratios

		6 elements						6 6 alternate elements											
1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	3 elements			3 3 alternate elements					
61 P	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	4 4 elements				71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
4 elements																			
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

A Repetitive Translation Symmetry Pattern

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

The Planar View: Symmetries by Rows of Twenty Elements

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

Incremental
Value

Decremental
Value

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

**The Planar View:
Symmetries by Rows of Twenty Elements**

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U								

The Neutronic Schemata of the Elements

Addenda

Alternative Groupings of Centrosymmetry by Scrolling the Neutronic Schemata of the Elements

In order to consider other groupings of the elements than the one presented in the neutronic schemata of the elements with the twenty-element baseline, a few examples are included here for the sake of comparison.

The advantage of the schemata of the elements, both the electronic and the neutronic versions, consists in the scrolling mechanism based on the sequential numbering system of the atomic number of the elements. The traditional periodic table of the elements interrupts the sequence of atomic numbers with the outer transition elements that remain outside of the main body of the elements.

Since this is not the case with the electronic and neutronic schemata of the elements, it is possible to scroll the different columns and rows of elements while maintaining the sequence in the atomic number.

Some cases of elementary scrolling are presented in the following schemata simply as a way of demonstrating how the scrolling mechanism allows one to search for patterns of symmetry among the different groupings of the elements.

The Neutronic Schemata of the Elements

Neutrons Above the Protonic Count and their Ratios

Alternative Groupings of Centrosymmetry

Scrolls

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si
--------	---------	---------	---------	--------	--------	--------	--------	--------	----------	----------	----------	----------	----------

15 P	16 S	17 Cl	18 Ar	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn
---------	---------	----------	----------	---------	----------	----------	----------	---------	----------	----------	----------	----------	----------	----------	----------

31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In
----------	----------	----------	----------	----------	----------	----------	----------	---------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

50 Sn	51 Sb	52 Te	53 I
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54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U
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30 Incremental Value

Decremental Value

Alternate Centrosymmetry Patterns by Distinct Groupings

Scrolls Rows by Eight and Ten Elements

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O
9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S
17 Cl	18 Ar	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr
25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge
33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd
49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba
57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd
65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf
73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra
89 Ac	90 Th	91 Pa	92 U				

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca
21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn
31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr
41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn
51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd
61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb
71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg
81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th
91 Pa	92 U								

The Neutronic Schemata of the Elements

The Ratio of the Protonic Count and the Surplus Neutronic Count on the Neutronic Schemata of the Elements

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