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SCIENCE TODAY

The Baseline on the Neutronic Schemata: Alternate Patterns of Translation and Centrosymmetry

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Earth/matriX Editions
New Orleans, Louisiana
29 October 2006
ISBN 1-58616-444-9

www.theschemata.com

Presentation

One of the reasons for having proposed the neutronic schemata of the elements concerns the baseline of the first twenty representative elements. The 20-base system of the Maya Long Count initiated my research into the re-structuring of the elements and the creation of the neutronic schemata format based on groups of twenty elements on horizontal rows.

In the literature of chemistry and physics much emphasis is given to the electrical neutrality of the one-to-one relationship of the proton and the electron, with the neutron tacked on as an afterthought. But, the role of the neutron is evidently significant, although it is generally not mentioned when speaking about the properties and charatceristics of the elements. Those features and their determination are generally reserved for the protonic and electronic counts (configurations). However, in my mind, the neutron plays just as a significant role as the proton and the electron. Obviously, the production of isotopes attests to this aspect of the elements.

But, for some reason, the neutron is not taken into consideration when speaking about the periodic table of the elements, given the perceived significance of the electronic configuration and the atomic number (the protonic number) of the elements.

Nonetheless, when we examine the relationships of the protons, neutrons and electrons as presented in the elements, the significance of the neutron becomes evident. This becomes especially so when we consider the relationship of these three different counts within the first twenty representative (or regular) elements. In this study, I briefly present the patterns of translation and centrosymmetry that I perceive in the composition of the first twenty elements as of their protonic, electronic and neutronic counts as cited in the literature today.

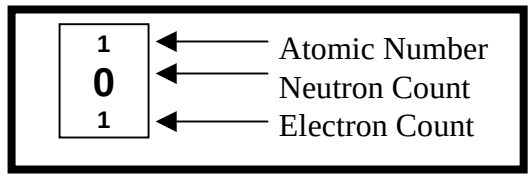
In order to create the neutronic schemata of the elements, as distinct from the electronic schemata of the elements (visit www.theschemata.com), the first twenty representative elements are grouped together on a single row. The following 72 natural elements are then grouped together in subsequent rows of twenty elements. I present only the neutronic schemata for the 92 natural elements, as generally the patterns pertaining to these elements break down when comparing them or extending them to the artifically created transuranium elements.

Once the first twenty representative elements are grouped in this manner and their properties and characteristics are examined, different patterns of translation and centrosymmetry make their appearance on the entire schema of 92 elements. In this study I concentrate upon the alternate patterns within the first twenty elements, but the reader is invited to view other studies that show comparisons of the twenty-element baseline to the other 72 elements on the schema. Elements that are identified as being irregular in the literature of today reveal definite patterns of symmetry with the other so-called regular elements, leading me to conclude that there are no irregular elements as such. The discernible patterns of symmetry generally involve all of the 92 natural elements.

In this study, the first twenty elements of the baseline reveal two or three main patterns of translation and/or centrosymmetry that alternate among one another. These alternating patterns may be viewed in isolation from one another, or they may be viewed together with one another, forming the overall pattern of the baseline. In order to discen these patterns, consider first the numbers of the different counts of the protons, electrons and neutrons in a particular element as follows.

The Neutronic Schemata of the Elements: The Neutron Count
The Twenty-Element Baseline of the Neutronic Schema Design

1 0 1	2 2 2	3 4 3	4 5 4	5 6 5	6 6 6	7 7 7	8 8 8	9 10 9	10 10 10	11 12 11	12 12 12	13 14 13	14 14 14	15 16 15	16 16 16	17 18 17	18 22 18	19 20 19	20 20 20
21 24 21	22 26 22	23 28 23	24 28 24	25 30 25	26 30 26	27 32 27	28 31 28	29 35 29	30 35 30	31 39 31	32 41 32	33 42 33	34 45 34	35 45 35	36 48 36	37 48 37	38 50 38	39 50 39	40 51 40
41 52 41	42 54 42	43 55 43	44 57 44	45 58 45	46 60 46	47 61 47	48 64 48	49 66 49	50 69 50	51 71 51	52 76 52	53 74 53	54 77 54	55 77 55	56 81 56	57 82 57	58 82 58	59 82 59	60 84 60
61 84 61	62 88 62	63 89 63	64 93 64	65 94 65	66 97 66	67 98 67	68 99 68	69 100 69	70 103 70	71 104 71	72 106 72	73 108 73	74 110 74	75 111 75	76 114 76	77 115 77	78 117 78	79 118 79	80 121 80
81 123 81	82 126 82	83 126 83	84 125 84	85 125 85	86 136 86	87 136 87	88 138 88	89 138 89	90 142 90	91 140 91	92 151 92								



Certain pairs of elements have a negative increment in their neutron counts.

18-Ar 18 protons 18 electrons **22** neutrons	**19-K** 19 protons 19 electrons **20** neutrons	-2
27-Co 27 protons 27 electrons **32** neutrons	**28-Ar** 28 protons 28 electrons **31** neutrons	-1
52-Te 52 protons 52 electrons **76** neutrons	**53-I** 53 protons 53 electrons **74** neutrons	-2
83-Bi 83 protons 83 electrons **126** neutrons	**84-Po** 84 protons 84 electrons **125** neutrons	-1
90-Th 90 protons 90 electrons **142** neutrons	**91-Pa** 91 protons 91 electrons **140** neutrons	-2

Elements with same number of protons, neutrons and electrons

The Neutronic Schemata of the Elements: The Neutron Count

Ratios of Neutron Count Divided by Proton Count

By Rows Horizontal Incremental *Tendency*

By Columns Downward Incremental *Pattern*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
24	26	28	28	30	30	32	31	35	35	39	41	42	45	45	48	48	50	50	51
1.14	1.18	1.21	1.16	1.2	1.15	1.18	1.10	1.20	1.16	1.25	1.28	1.27	1.32	1.28	1.33	1.29	1.31	1.28	1.27
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
52	54	55	57	58	60	61	64	66	69	71	76	74	77	77	81	82	82	82	84
1.26	1.28	1.27	1.29	1.28	1.30	1.29	1.33	1.34	1.38	1.39	1.46	1.39	1.42	1.4	1.44	1.43	1.41	1.38	1.4
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
84	88	89	93	94	97	98	99	100	103	104	106	108	110	111	114	115	117	118	121
1.37	1.42	1.41	1.45	1.44	1.47	1.46	1.45	1.44	1.47	1.46	1.47	1.48	1.48	1.48	1.5	1.49	1.5	1.49	1.51
81	82	83	84	85	86	87	88	89	90	91	92								
123	126	126	125	125	136	136	138	138	142	140	151								
1.51	1.53	1.51	1.48	1.47	1.58	1.56	1.56	1.55	1.57	1.53	1.64								

1	Atomic Number
0	Neutron Count
1	**Ratio Neutron / Proton**

The list of values relating to the ratios of the proton | neutron counts as transferred onto the neutronic schemata of the elements reveal a downward incremental progression with only two exceptions or anomalies (elements 3 and 4). The apparently unrelated numbers, showing increments and decrements between the elements on the neutronic schemata as shwon here now reveal a tendency for every twenty elements. **Vertically** the pattern is towards complete increments; **horizontally**, the the tendency is towards increments, but there are progressions and regressions.

The Neutronic Schemata of the Elements: The Neutron Count

Ratios of Neutron Count Divided by Proton Count

1.0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Entire Twenty Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

2.0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Internal Alternate Patterns

1	**2**	3	4	5	**6**	7	**8**	9	**10**	11	**12**	13	**14**	15	**16**	17	18	19	**20**
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

1	2	**3**	4	**5**	6	**7**	8	**9**	10	**11**	12	**13**	14	**15**	16	**17**	18	**19**	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

1	2	3	**4**	5	6	7	8	9	10	11	12	13	14	15	16	17	**18**	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

1	← Atomic Number
0	← Neutron Count
1	← **Ratio Neutron / Proton**

Patterns are based on the progression of the values in red for the ratios of the neutron | proton counts.

The Neutronic Schemata of the Elements: The Neutron Count
Ratios of Neutron Count Divided by Proton Count

1.0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Entire Twenty Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

The distinction between the two perspectives in viewing the baseline of the first twenty representative elements lies with element 7-N. In the first perspective element 7-N is viewed as an anomaly, whereas in the second perspective it is viewed as a stage within the alternate sequence of values greater than 1.0. In either case, the analyses of data remain the same for element 7-N has a value that fits in either perpsective. The two baselines are in conception only, while reality for 7-N remains unit 1.0.

2.0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Internal Alternate Patterns

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

1	← Atomic Number
0	← Neutron Count
1	← **Ratio Neutron / Proton**

Elements 4-Be and 18-Ar are considered to represent anomalies in both baseline patterns.

Hydrogen

The Neutronic Schemata of the Elements: The Neutron Count
Ratios of Neutron Count Divided by Proton Count

1.0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Entire Twenty Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

Insofar as the element 1-Hydrogen does not contain a neutron, it may be considered to lie outside of the baseline of the neutronic schemata. However, given its significance as the initial element of all elements, element 1-H may be considered to function as the initiator of both baselines

2,0 The Baseline of the First Twenty Representative Elements from the Perpsective of the Internal Alternate Patterns

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

1	← Atomic Number
0	← Neutron Count
1	← **Ratio Neutron / Proton**

The Neutronic Baseline

The Neutronic Schemata of the Elements: The Neutron Count
Ratios of Neutron Count Divided by Proton Count

The Baseline of the First Twenty Representative Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

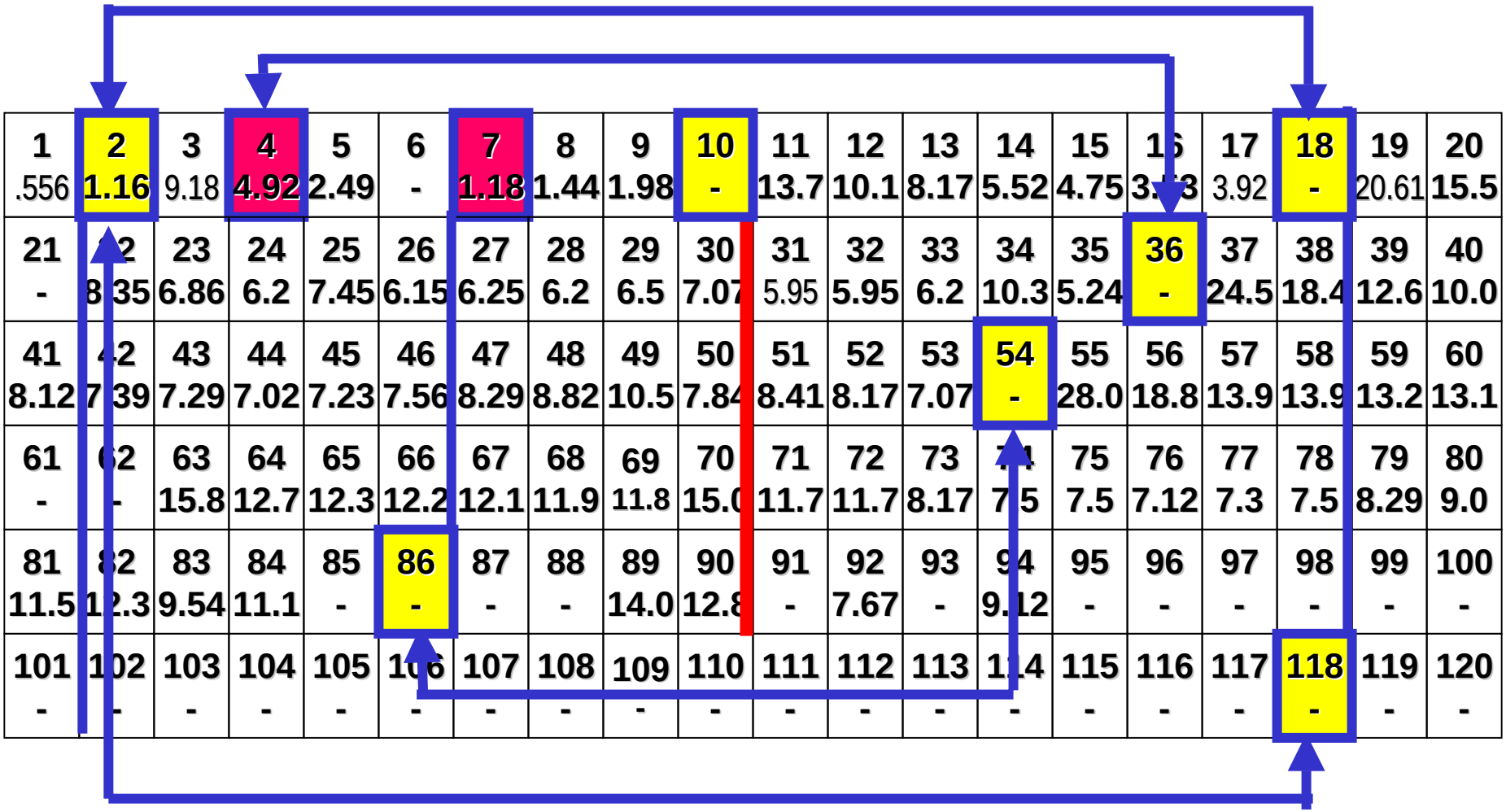
The baseline of the neutronic schemata for the first twenty representative elements may be viewed from different perspectives of symmetry. Two of the most significant views concern the centrosymmetry portrayed in the examples below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Patterns of Symmetry Within A Family of Elements

on The Neutronic Schemata of the Elements



1 .556	2 1.16	3 9.18	4 4.92	5 2.49	6 -	7 1.18	8 1.44	9 1.98	10 -	11 13.7	12 10.1	13 8.17	14 5.52	15 4.75	16 3.[illegible]3	17 3.92	18 -	19 20.61	20 15.5
21 -	[illegible]2 8	23 6.86	24 6.2	25 7.45	26 6.15	27 6.25	28 6.2	29 6.5	30 7.07	31 5.95	32 5.95	33 6.2	34 10.3	35 5.24	36 -	37 24.5	38 18.4	39 12.6	40 10.0
41 8.12	[illegible]2 7	43 7.29	44 7.02	45 7.23	46 7.56	47 8.29	48 8.82	49 10.5	50 7.84	51 8.41	52 8.17	53 7.07	54 -	55 28.0	56 18.8	57 13.9	58 13.9	59 13.2	60 13.1
61 -	[illegible]2 -	63 15.8	64 12.7	65 12.3	66 12.2	67 12.1	68 11.9	69 11.8	70 15.[illegible]	71 11.7	72 11.7	73 8.17	[illegible] 7.5	75 7.5	76 7.12	77 7.3	78 7.5	79 8.29	80 9.0
81 11.5	[illegible]2 1[illegible].3	83 9.54	84 11.1	85 -	86 -	87 -	88 -	89 14.0	90 12.[illegible]	91 -	92 7.67	93 -	94 9.[illegible]12	95 -	96 -	97 -	98 -	99 -	100 -
101 -	1[illegible]02 -	103 -	104 -	105 -	1[illegible]6 -	107 -	108 -	109 -	110 -	111 -	112 -	113 -	1[illegible]4 -	115 -	116 -	117 -	118 -	119 -	120 -

Noble Gases

Neutronic Anomalies: Elements 4 and 7

Data Squares of Values of Bond Lengths of Elements

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	2	4	5	6	6	7	8	10	10	12	12	14	14	16	16	18	22	20	20
0	1	1.33	1.25	1.2	1	1	1	1.11	1	1.09	1	1.07	1	1.06	1	1.05	1.22	1.05	1

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