ARTICLE 6

# TEN STRING STRUCTURE OF THE SUPERSTRING ENCODED IN THE 41-TREE

by

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ABSTRACT

The author's previous work proved that the basic particles of matter observed a century ago by Annie Besant and C.W. Leadbeater using a yogic siddhi are superstring constituents of the up and down quarks making up protons and neutrons in atomic nuclei. This article demonstrates a remarkable analogy between the paranormally described 10-fold structure of the superstring and the lowest 41 trees in the Cosmic Tree of Life (CTOL) — the map of all possible levels of evolved consciousness shown in earlier articles to be encoded in the geometry of the Tree of Life blueprint. The Godnames of the ten Sephiroth are shown to prescribe both this section of CTOL and a division of it corresponding vis-à-vis this analogy to the 3:7 differentiation that Besant and Leadbeater noticed in the strings comprising the superstring. The dimension 496 of the superstring gauge symmetry groups $E_8 \times E_8$ and $O(32)$ is found to quantify the geometrical composition of these 41 trees, in confirmation of their unique status as the superphysical analogue of the superstring – the manifestation of the Tree of Life in the subatomic world. The inner form of the Tree of Life encodes this section of CTOL as well as CTOL itself, the encoding being prescribed by the ten Hebrew Godnames. An extraordinary, four-fold parallelism emerges between the paranormally described string structure of the superstring and its encodings in both the 41 trees and the outer and inner forms of the Tree of Life.

# 1. The 10-fold superstring

Analysis (1) of the clairvoyant observations (2) of the basic units of matter by the Theosophists



Annie Besant    C.W. Leadbeater
**Figure 1**
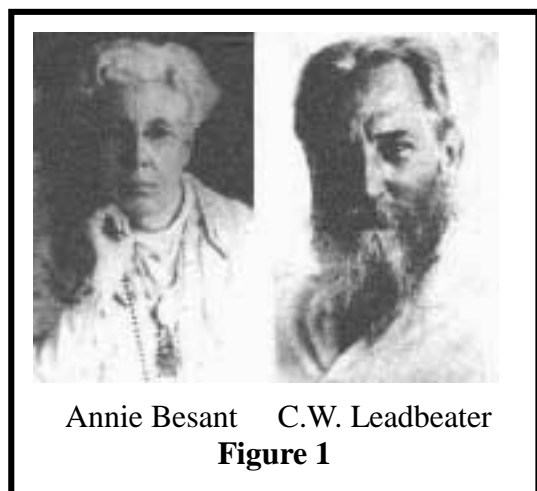
Annie Besant (1847-1933) and C.W. Leadbeater (1847-1934) (*Fig. 1*) proved that these are the superstring constituents of the up and down quarks making up atom nuclei. Two varieties of these spinning particles — so-called 'positive' and 'negative' (*Fig. 2*) — were noticed, one the mirror image of the other. Both consist of ten closed curves, or 'whorls,' each of which spirals five times around the axis of spin, making 2½ revolutions as it spirals from the broad top of the particle to its pointed end and then 2½ revolutions in a narrower helix as it returns to its top. According to Leadbeater, a whorl is a helical coil with 1680 turns. It was interpreted in Reference 1 as a closed, 26-dimensional string. It was proposed (3) in Article 2 and Article 5 that the superstring is formed



**POSITIVE          NEGATIVE**
**Figure 2**
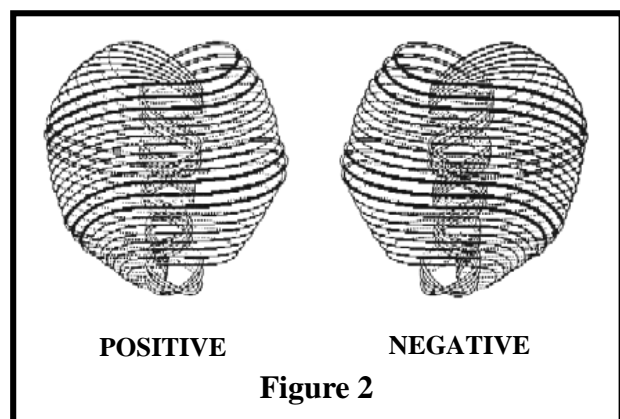
by the wrapping of an 11-brane around ten compactified dimensions of 26-dimensional space-time *beyond* the space-time required by superstring theory. This creates ten strings, each characterised by 25 spatial co-ordinate variables, so that the total number of space-time co-ordinate variables for the ten strings making up a superstring is $10{\times}25 + 1 = 251$.

The top of the 41-tree in CTOL is the 251st SL. The top of the **49**-tree is the 299th SL. The 251st SL is therefore the **49**th from the top of the **49**th tree. Since the **49**th tree from the top of CTOL is the 43rd from its bottom, the bottom of the **49**th tree from the top of CTOL is also the bottom of the 43rd from the bottom of CTOL, i.e., the top of the 41st tree. The 251st SL is therefore both the **49**th from the top of the **49**th tree and the bottom of the **49**th tree from the top of CTOL. This shows how the Godname EL ChAI of Yesod with number value **49** prescribes the number 251. There are 251 SLs beyond the 7-tree in **49** overlapping trees, just as there are 251 SLs in CTOL beyond the **49**-tree. The section of the **49**-tree above the 7-tree is to the latter what the section of CTOL representing cosmic superphysical planes is to the cosmic physical plane. Just as the number 251 is the number of emanations of the six Sephiroth of Construction above Malkuth before the cosmic physical plane is reached, as well

as the number of their emanations above the physical plane, so this number is the number of degrees of freedom expressing the geometry of the subquark state of the superstring. Section 2 will discuss its encoding in the inner form of the Tree of Life. Its remarkable encoding in the lowest tree of CTOL representing Malkuth will be discussed in Section 3.

Since the number of yods in the n-tree is

$$Y(n) = \mathbf{50}n + 30,$$

$$Y(n+5) - Y(n) = 5 \times \mathbf{50} = 250,$$

i.e., five successive trees contain 250 yods. Since the number of SLs in the n-tree is

$$S(n) = 6n + 5,$$

there are $S(n+5) - S(n) = 6 \times 5 = 30$ SLs in every five trees, i.e., counting from the top of the (n+5)th tree to the top of the nth tree, there are **31** SLs and 251 yods in every five trees (*Fig. 3*). This shows how the Godname EL of Chesed with number value **31** prescribes the number 251.
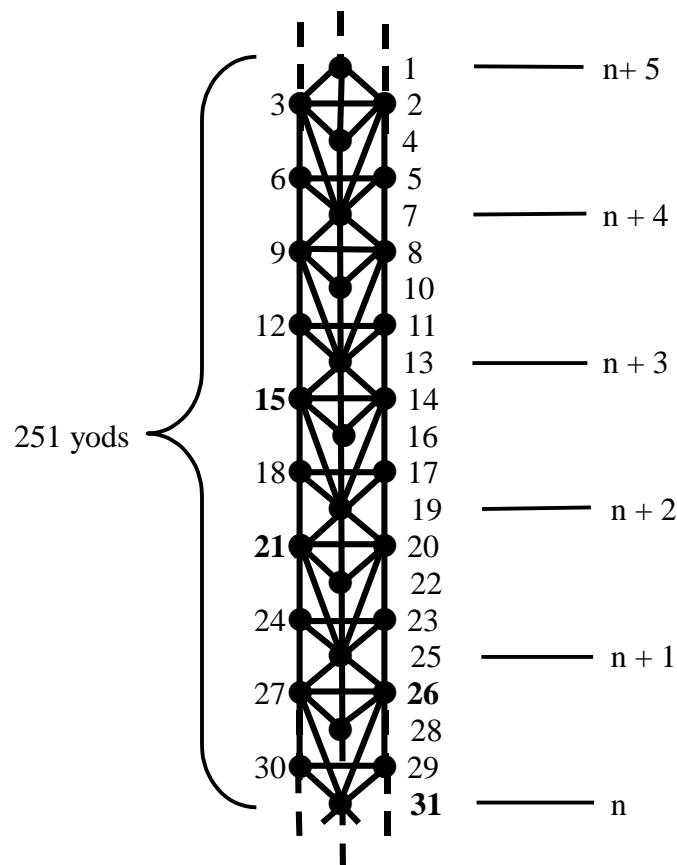


**Figure 3**

EHYEH prescribes the number 41 (and hence the number 251) because 41 is the **21**st odd integer and 251 is the 126th odd integer, where 126 is the sum of the values of all combinations of the letters of EHYEH. The 251st SL is the 127th tree level, where 127 is the **31**st prime number. This shows how EL prescribes the 41-tree. As CTOL has 276 tree levels, the 251st SL is the 150th tree

**3**

level from the top of CTOL, where 150 = **15**×10. This shows how the number value **15** of YAH determines the 41-tree. Also, 41 = **26** + **15**, where **26** is the number of YAHVEH, the other Godname of Chokmah. There are 167 stages of vertical descent of the Lightning Flash from Kether of the 41st tree, that is, **168 stages of descent of the Lightning Flash from Geburah of the 42nd tree generate the 251 SLs in the 41-tree**. As demonstrated in Article 5, this is an example of the close association between the number 251 and the number **168** of the Mundane Chakra of Malkuth — the structural parameter of the superstring (see previous articles and references 1 and 5).

The 41st tree is the 51st from the top of CTOL. 51 is the **26**th odd integer, showing how YAHVEH prescribes the 41-tree. **50** trees extend above it, indicating how ELOHIM prescribes this section of CTOL. The Godname ELOHIM OF Binah prescribes the number 251 because below the highest Binah of **50** overlapping trees are 2510 (= 251×10) yods.

The 251 SLs of the 41-tree comprise the 11 SLs of the 1-tree and 240 SLs in the 40 trees above the latter. Since Kether of the 41st tree is the 85th SL on the Pillar of Equilibrium and Kether of the first tree is the fifth SL, these 240 SLs comprise **80** SLs on the central pillar and 160 SLs on the two side pillars, where **80** is the number value of Yesod ("Foundation"). This 160:**80** differentiation corresponds to the difference between the 160 (10×16) co-ordinate variables of the ten strings of the superstring in the 16-dimensional space beyond superstring space-time and their **80** (10×8) transverse co-ordinate variables in relation to the latter, each string having eight transverse dimensions in the 10-dimensional space-time in which they are embedded. The 11 SLs belonging to the 1-tree correspond to the ten longitudinal co-ordinate variables of the ten strings (their *extension* in ordinary space), whilst the 240 SLs in the 41-tree above the 1-tree correspond to the 240 transverse co-ordinate variables of these strings, each one having 24 transverse co-ordinate variables. This means that the three thicker, so-called 'major' whorls in the particle described paranormally by Besant and Leadbeater are strings with **72** such variables and that the remaining seven, so-called 'minor' whorls (see Fig. 2) are strings with **168** co-ordinate variables.

The 29-tree has 179 SLs, that is, **168** SLs above the 1-tree. The top of the 29th tree is the 91st tree level, that is, the 84th above the 1-tree. The **26**th tree level (**50**th SL) is the dimension of time. The **129**th SL above this SL is **65** tree levels above it and the **168**th SL above the 1-tree. There are **72** SLs in the 41-tree above the 29-tree. The division:

$$240 = \mathbf{72} + \mathbf{168}$$

is therefore prescribed by ELOHIM and ADONAI, Godname of Malkuth. The division:

$$127 = \mathbf{26} + \mathbf{101}$$

between the **26** tree levels defining **26**-dimensional space-time and the **101** higher tree levels up to the top of the 41st tree is defined by YAHVEH because **101** is the **26**th prime number.

The top of the 16-tree is the **101**st SL and the 52nd tree level, where 52 is the **26**th even integer. This is the **76**th tree level from the top of the 41-tree and the 90th SL from the top of the 1-tree. This shows how YAHVEH SABAOTH with number value **129** defines the division:

$$\mathbf{168} = 78 + 90$$

of the number value of Cholem Yesodeth, the Mundane Chakra of Malkuth, into 78 and 90, the component values of, respectively, the two words 'Cholem' and 'Yesodeth.'

41 overlapping trees have **496** triangles. **The number of Malkuth and the dimension of the superstring symmetry groups is therefore remarkably embodied in 41 trees as the number of *simplest* shapes creating their 3-dimensional structure, these shapes being marked out by the 250 corners of their triangles**. This should be compared with the fact that a superstring with 250 spatial co-ordinate variables possessed by its ten string components is the source of **496** gauge bosons transmitting the unified, $E_8{\times}E_8$- or $O(32)$-symmetric, superstring force. That such a number central to superstring physics should occur in a section of CTOL whose structure has already been shown to be analogous to the 10-fold superstring is no accident. Instead, it is an example of the way in which 'corresponding' sections of CTOL encode the same cosmic parameters, such as 251 and **496** (see Article 5 for more examples).

The 12 trees extending beyond the 29-tree to the 41st tree have **72** SLs and the 28 trees extending beyond the 1-tree to the 29th tree have **168** SLs. This **72**:**168** differentiation corresponds in the superstring described by Besant and Leadbeater to the **72** $E_8$ gauge charges carried by the superstring in its three major whorls, 24 spread out over each whorl, and to the **168** gauge charges similarly carried by the superstring in its seven minor whorls. As we shall find later, each set of 24 gauge charges corresponds in the inner form of the Tree of Life to the 24 unshared corners of the first six regular polygons enfolded in each tree of the 10-tree.

The 22-tree has 137 SLs, 126 above the 1-tree. They include the **72** SLs of the 13-tree above the 1-tree. **72** is the number of non-zero roots of $E_6$ and 126 is the number of non-zero roots of $E_7$, both exceptional subgroups of the superstring symmetry group $E_8$. The top of the 22-tree is the 70th tree level and the 91st stage of descent of the Lightning Flash. The differentiation:

$$240{:}133{:}\mathbf{72}$$

between the non-zero roots of $E_8$, $E_7$ and $E_6$ corresponds to the SL population of, respectively, the 41-tree, 22-tree and 13-tree.

Chesed of the 23rd tree is the 139th SL and the 128th SL above the 1-tree, above which are **112** SLs to the top of the 41-tree. The next higher SL (Daath of the 23rd tree) is the **140**th SL and the **48**th SL on the central pillar. The **112**th SL from the top of the 41-tree is therefore both the **140**th

**NUMBER VALUES OF THE SEPHIROTH**

*(All such numbers appearing in text are written in* **boldface***. Cited numbers are in shaded boxes)*

| Sephirah | Title | Godname | Archangel | Order of Angel | Mundane Chakra |
|---|---|---|---|---|---|
| Kether | 620 | 21 | 314 | 833 | 636 |
| Chokmah | 73 | 15, 26 | 331 | 187 | 140 |
| Binah | 67 | 50 | 311 | 282 | 317 |
| Chesed | 72 | 31 | 62 | 428 | 194 |
| Geburah | 216 | 36 | 131 | 630 | 95 |
| Tiphareth | 1081 | 76 | 101 | 140 | 640 |
| Netzach | 148 | 129 | 97 | 1260 | 64 |
| Hod | 15 | 153 | 311 | 112 | 48 |
| Yesod | 80 | 49 | 246 | 272 | 87 |
| Malkuth | 496 | 65, 155 | 280 | 351 | 168 |

SL and the **48**th SL on the central pillar. This 128:**112** division of SLs corresponds to the 128:**112** differentiation of the 240 non-zero roots of $E_8$, which is therefore prescribed by the number value **140** of Malachim, the Angelic Order assigned to Tiphareth, the number value **48** of Kokab, the Mundane Chakra of Hod and the number value **112** of Beni Elohim, the Order of Angels assigned to Hod. In fact, this differentiation is found to be defined by the number values of *all* the Godnames, Archangelic Names, Angelic Names and Mundane Chakras because it is a property of a Tree of Life pattern.

The 251 SLs of the 41-tree comprise 91 SLs up to Chesed of the **15**th tree and 160 SLs beyond it. The former consists of 60 SLs on the side pillars and **31** SLs on the central pillar. The divisions:

$$251 = 91 + 160$$

and

$$91 = 31 + 60$$

correspond in the superstring to the **31** space-time co-ordinate variables of its ten string components in 4-dimensional space-time, their 60 co-ordinate variables defined in the 6-dimensional compactified space and their 160 co-ordinate variables defined for the higher, 16-dimensional space outside superstring space-time. This is how the Godname YAH with number value **15** and EL with number value **31** prescribe vis-à-vis 10- and 4-dimensional space-time the number of space-time co-ordinate variables of its ten string components.

YAH and YAHVEH prescribe the division of the 251 co-ordinate variables into (10×10 + 1 = **101**)
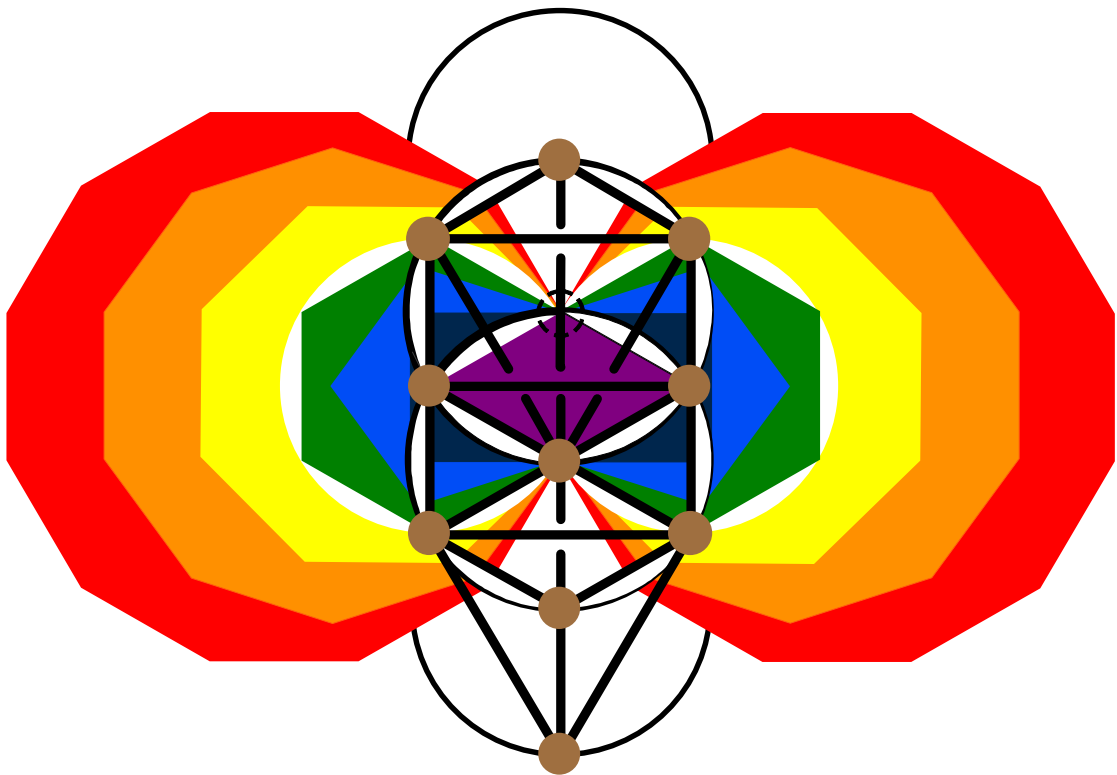


**Figure 4. The outer and inner forms of the Tree of Life.**

space-time co-ordinate variables defined vis-à-vis 11-dimensional, supergravity space-time and 150 (=**15**×10) variables in the higher, **15**-dimensional space because **15** is the number value of YAH and **101** is the **26**th prime number, where **26** is the number value of YAHVEH. The division is prescribed also by ELOHIM because there are **50** SLs on the central pillar in the 41-tree above the **101**st SL, whilst **101** is the **50**th odd integer after 1. YAHVEH ELOHIM prescribes this division because the **101**st SL is the 151st SL from the top of the 41-tree, where 151 is the **76**th odd integer. The **101**st SL is also the **76**th tree level from the top of the 41-tree.

ELOHA prescribes the division of the 240 SLs in the 41-tree above the 1-tree into **168** SLs of the

29-tree above the 1-tree and **72** SLs above the 29-tree because its number value **36** is the number of tree levels in the 41-tree above the 29-tree.

Counting from the highest plane, the 41st tree represents the second subplane of the second plane — the Theosophists' 'anupadaka plane.' Its Kether — the 251st SL — is the Malkuth of the 43rd tree representing the lowest subplane of the first plane — the adi plane. The 251st SL therefore denotes the lowest (Malkuth) level of the lowest subplane of this plane. As the *lowest* point of the highest **49** trees in CTOL, this SL represents the *completion* of a cycle of 7-fold differentiation in the emanation of each of the seven Sephiroth of Construction. Although the **49**-tree is itself such a cycle, only trees 43–**49** belong to both cycles, whilst the 251st SL is the last SL to be part of the emanation of *both* cycles. It is this that makes the 41-tree and its highest point unique.
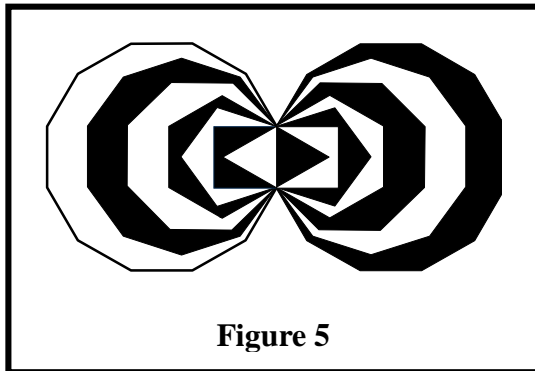
## 2.The Inner Form of the Tree of Life
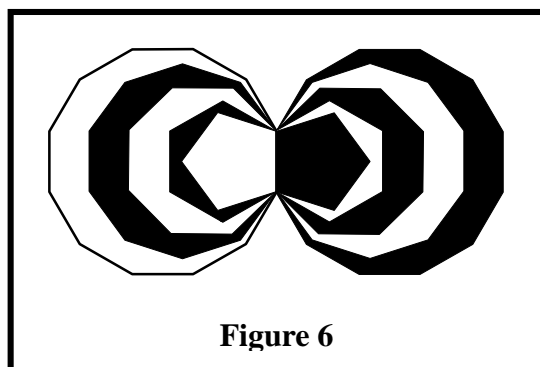


**Figure 5**



**Figure 6**

The inner form of the Tree of Life (*Fig. 4*) consists of two identical sets of seven regular polygons that enfold in one another and share their root edge (*Fig. 5*). As was pointed out in previous articles, the seven polygons encode the **49**-tree representing the cosmic physical plane and the five polygons in the other set with most corners encode the 42 trees of CTOL representing the six superphysical planes. It is remarkable that their composition is such that the five polygons with the *least* number of corners (the first five separate polygons in the set of seven containing **26** corners) encode the lowest **26** trees of CTOL corresponding to **26**-dimensional space-time, whilst the five separate polygons in the set of seven with the *largest* number of corners (the last five) have 41 corners and 251 yods (*Fig. 6*), that is, they encode the 41-tree with 251 SLs — the very number of space-time co-ordinates of ten strings in **26**-dimensional space-time! The reason why the five largest polygons encode this structural parameter of strings is that they constitute a *new* Tree of Life pattern prescribed by the ten Godnames, as now shown. Their properties are set out below:

|  | pentagon | hexagon | octagon | decagon | dodecagon |
|---|---|---|---|---|---|
| Number of corners = | 5 | 6 | 8 | 10 | 12 |
| Number of yods = | **31** | 37 | **49** | 61 | **73** |

**5 separate polygons**

1.  Number of corners of 5 polygons = 41 = **21**st odd integer;

2.  Number of corners of 41 tetractyses in 5 polygons = 41 + 5 = 46 (= **48**, including the separate root edge);

3.  Number of sides of 5 polygon = 41;

4.  Number of edges of 41 tetractyses = 2×41 = 82;

5.  Number of corners + edges of tetractyses = 46 + 82 = 128 (= **131**, including the separate root edge);

6.  Number of corners + edges + triangles = 128 + 41 = 169;

7.  Number of yods = 251;

8.  Number of yods other than corners = 251 – 41 = 210 = **21**×10;

9.  Number of yods along boundaries of polygons = 3×41 = 123 (127, including the separate root edge; 127 = **31**st prime number). Number of boundary yods in (5+5) polygons = 2×123 = **246**;

10. Number of yods along edges of tetractyses = 5×41 + 5 = 210 = **21**×10.

When the five separate polygons become enfolded, four of their edges coincide with the fifth, so that (4×2 = 8) corners, four edges and (4×4 = 16) yods (including (4×2 = 8) hexagonal yods) disappear, whilst a corner of the pentagon coincides with the centre of the decagon.

**5 enfolded polygons**

1.  Number of corners = 41 – 8 = 33 (**31** outside root edge);

2.  Number of corners of 41 tetractyses = 33 + 4 = 37 (35 outside root edge);

3.  Number of sides of 5 polygons = 41 – 4 = 37 (**36** outside root edge);

4.  Number of corners + sides of polygons = 33 + 37 = 70 (**67** outside root edge);

5.  Number of edges of tetractyses = 82 – 4 = 78 (77 outside root edge);

6.  Number of corners + edges of tetractyses = 37 + 78 = 115 (**112** outside root edge);

7.  Number of corners, edges + triangles = 115 + 41 = 156 (**153** outside root edge, where **153** = **76**th odd integer after 1);

8.  Number of yods = 251 – 16 – 1 = 234 (230 outside root edge);

9.  Number of yods other than corners = 234 – 33 = 201 (199 outside root edge). 201 = **101**st odd integer, where **101** = **26**th prime number;

10. Number of yods along boundaries of 5 polygons = 37×2 + 33 = 107 (103 outside root edge, of which (103 – **31** = **72**) are not corners);

11. Number of yods along boundaries of tetractyses = 3×33 + 2×37 + 4 = 177 (173 outside root edge; 173 = **87**th odd integer).

(5+5) polygons have (2×**31** + 2 = **64**) corners (**62** outside the root edge), (2×35 + 2 = **72**) corners of 82 tetractyses (**36** per set of 5 polygons), (2×**36** + 1 = **73**) sides of polygons (**73** = **21**st prime number), (2×77 + 1 = **155**) edges of tetractyses, (2×**112** + 3 = 227) corners + edges (227 = **49**th

prime number), (2×**153** + 3 = 309) corners, edges + triangles (309 = **155**th odd integer), (2×230 + 4 = 464) yods and (2×199 + 2 = 400) yods other than corners. They also have (2×103 + 4 = 210 = **21**×10) yods along their **73** sides.

Below is shown how the number values of the ten Godnames quantify these properties:

**HOW GODNAMES PRESCRIBE THE 5 POLYGONS**

Kether: **21**    Number of corners of 5 polygons = 41 = **21**st odd integer;
Number of yods other than corners = 251 – 41 = 210 = **21**×10;
Number of yods along edges of tetractyses = 5×41 + 5 = 210 = **21**×10;
**21**st prime number = **73** = number of sides of (5+5) enfolded polygons;

Chokmah: **26**    Number of yods other than corners = 234 – 33 = 201 (199 outside root edge). 201 = **101**st odd integer, where **101** = **26**th prime number;

Binah: **50**    **50** yods in root edge and at corners and centres of 5 separate polygons;

Chesed: **31**    **31**st prime number = 127 = number of yods along boundaries of 5 separate polygons and root edge; **31** corners outside root edge of 5 enfolded polygons;

Geburah: **36**    **36** sides of 5 enfolded polygons outside root edge; **72** corners of (5+5) polygons (**72** = **36**th even integer);

Tiphareth: **76**    **76**th odd integer after 1 = **153** = number of triangles, corners and edges of 41 tetractyses outside root edge of 5 enfolded polygons;

Netzach: **129**    130 corners and edges of tetractyses in 5 separate polygons, including the root edge and its corner associated with this set. 130 = **129**th integer after 1 ;

Hod: **153**    **153** triangles, corners and edges of tetractyses outside root edge of 5 enfolded polygons;

Yesod: **49**    **49**th prime number = 227 = number of corners and edges of (5+5) enfolded polygons;

Malkuth: **155**    **155** edges of tetractyses of (5+5) enfolded polygons. **155**th odd integer = 309 = number of corners, edges and triangles in (5+5) enfolded polygons.

The last example of Godnames prescribing the properties of this Tree of Life pattern of (5+5) enfolded polygons is particularly remarkable because it convincingly demonstrates how the character of each prescription is consistent with the metaphysical nature of the Sephirah. In this case, the Godname ADONAI MELEKH of the Sephirah Malkuth, signifying the *outer form* of the Tree of Life, determines the *shapes* of the two sets of five regular polygons in terms of either their **155** edges or their 309 corners, edges and triangles.

## 3. Encoding of the 41-tree in the 1-tree

As the lowest tree in CTOL, the 1-tree has a formal correspondence to the last Sephirah, Malkuth. Figure 7 shows that, when each of its 19 triangles is divided into three triangles that are then turned into tetractyses, the resulting 57 tetractyses contain 251 yods. They comprise the 11 yods at

the corners of the triangles, i.e., SLs, and 240 yods created by the conversion of the triangles into three tetractyses. As shown (4) in Article 4, the Godnames of the ten Sephiroth prescribe not only



ADONAI → 65TH SL →

= 251 =
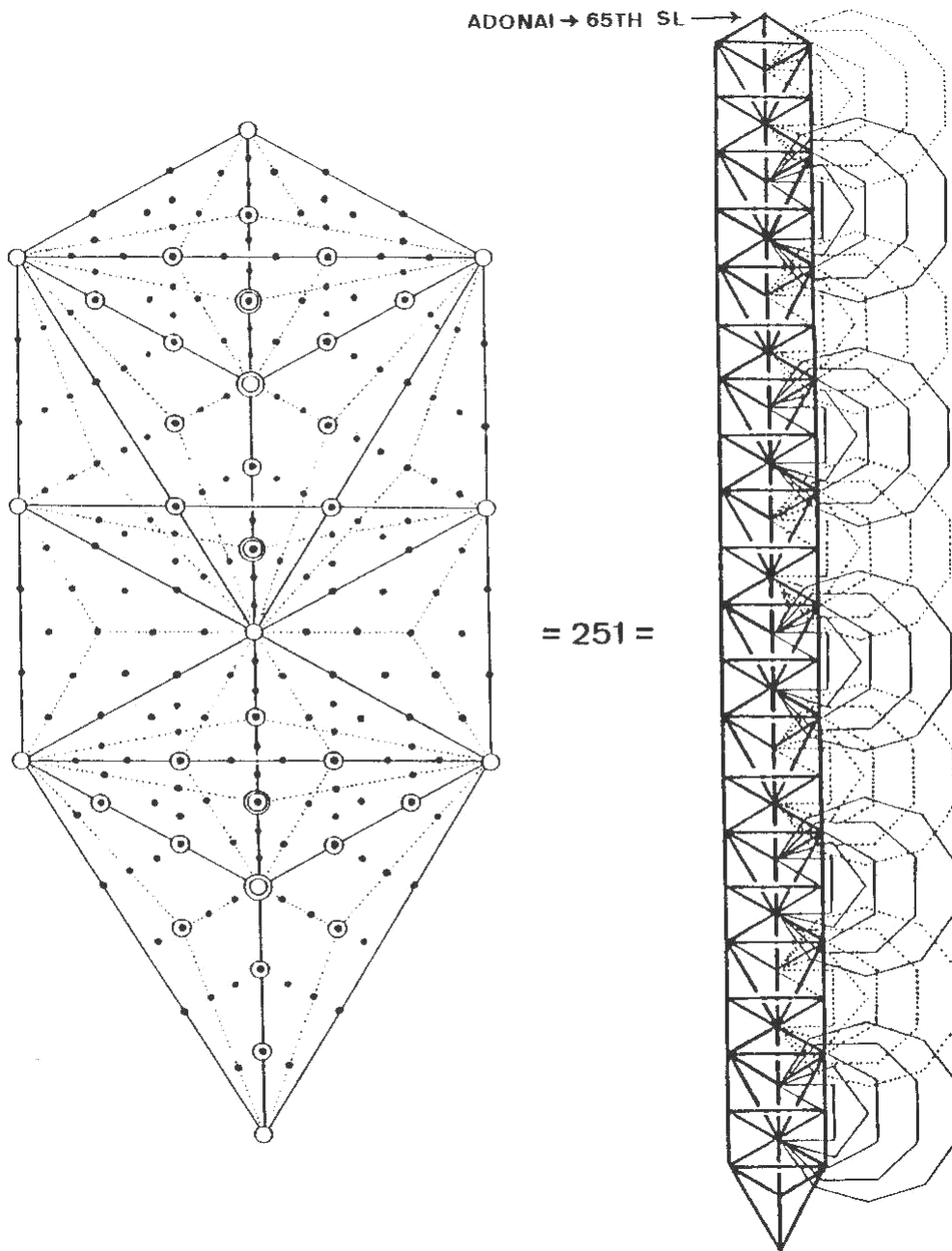
**Figure 7**

**The lowest tree in CTOL has as many yods (251) as the first six types of regular polygons enfolded in the lowest ten trees have corners. These 251 degrees of freedom denote the (25×10 + 1 = 251) space-time co-ordinate variables of the ten 26-dimensional strings constituting a superstring — the microphysical manifestation of the Tree of Life blueprint.**

the seven regular polygons enfolded in the Tree of Life but also a new pattern comprising the first six polygons of this set. Associated with each overlapping tree in CTOL are seven enfolded, regular polygons, the first six of which have **26** corners prescribed by the number value **26** of YAHVEH. Of these, the uppermost and lowermost corners of the hexagon are joined to their counterparts in adjacent hexagons, which means that there are 25 corners of the first six polygons per set. Enfolded in the lowest ten trees are 60 polygons of the first six types with $10 \times 25 + 1 = 251$ corners. These corners denote the space-time co-ordinate variables of ten strings, 25 per string.

Properties of the 1-tree, 41-tree and the 60 polygons enfolded in the 10-tree are compared below:

**PARALLELS BETWEEN 1-TREE, 41-TREE & 60 POLYGONS ENFOLDED IN 10-TREE**

| 1-tree | 41-tree | 60 polygons |
|---|---|---|
| 1. 251 yods in 19 triangles whose sectors are tetractyses; | 251 SLs; | 251 corners of first 6polygons enfolded in 10-tree; |
| 2. 251 yods comprise 11 corners of 19 triangles and 240 others. | 251 SLs comprise 11 SLs of 1-tree and 240 SLs above it. | 251 corners comprise 11 corners of 10 hexagons and 240 corners of 60 polygons. |

The fact that the 251 corners of the 60 polygons enfolded on one side of the 10-tree comprise the

| Tree number | Number of SLs | | Number of tree levels |
|---|---|---|---|
| 41 | 251 | | 127 |
| | | 24 | |
| 37 | 227 | | 115 |
| | | 24 | |
| 33 | 203 | | 103 |
| | | 24 | |
| 29 | 179 | | 91 |
| | | 24 | |
| 25 | **155** | | 79 |
| | | 24 | |
| **21** | 131 | | **67** |
| | | 24 | |
| 17 | 107 | | 55 |
| | | 24 | |
| 13 | 83 | | 43 |
| | | 24 | |
| 9 | 59 | | **31** |
| | | 24 | |
| 5 | 35 | | 19 |
| | | 24 | |
| 1 | 11 | | 7 |

**Figure 8**

11 highest and lowest corners of the ten hexagons and 240 other, unshared corners, 24 per set of

polygons, suggesting that, since the SLs of the 41-tree are analogous to these corners, the 40 trees of the 41-tree above the 1-tree should be regarded as divided into ten groups of four trees, each having 24 SLs because successive trees have six SLs. Figure 8 shows that the 12 uppermost trees in the 41-tree have **72** SLs corresponding to the **72** transverse co-ordinate variables of the three strings that are the major whorls of the basic unit of matter described by Besant and Leadbeater and that the lowest 29 trees have **168** SLs corresponding to the **168** transverse co-ordinate variables of the seven strings that are the minor whorls.

The 11 SLs of the 1-tree correspond to the 11 uppermost and lowermost corners of the ten hexagons enfolded in the 10-tree. The lowest corner of the one enfolded in the 1-tree is distinct from the rest in that it does not share its position with corners of other hexagons. This corner denotes the time co-ordinate of the strings of the superstring, whilst the uppermost corner of each hexagon denotes the longitudinal space co-ordinate of the string represented by the corresponding tree. This difference between the ten space co-ordinate variables and the time co-ordinate corresponds in the 1-tree to the ten SLs and Daath, which, being Yesod of the second tree, is an SL only of *that* tree, not the first tree. Such an exact, four-way correspondence:

1-tree ⟷ 41-tree

1st 6 polygons enfolded in 10-tree ⟷ 10 strings of superstring
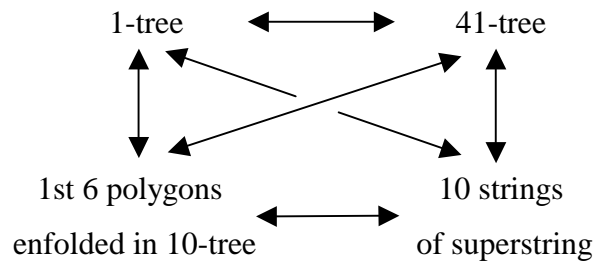
cannot be plausibly dismissed as due to coincidence. Instead, it reflects the profound connection between the properties of the Tree of Life as the cosmic blueprint and features of the superstring constituents of quarks— the truly elementary particles yet to be discovered by particle physics but described over a century ago with the aid of one of the siddhis, or paranormal mental faculties, known to yogis.

## 4. Conclusion

The interpretation of the fundamental unit of matter observed clairvoyantly by Annie Besant and C.W. Leadbeater as the superstring constituent of up and down quarks implies that the superstring is a more complicated object than the simple picture of a closed string considered by physicists before so-called 'n-branes' and 'M-theory' ushered in the second revolution in string theory. Its stringy, ten-fold whorl structure, although consistent with the superstring picture of a compactified, 6-dimensional space, requires it to be a higher-dimensional membrane. If this is

**26-**dimensional, as required by quantum mechanics for spinless strings, the ten closed strings formed by the curling up of the 11-brane proposed by the author in Articles 2 and 5 and Reference 5 around higher, compactified dimensions possess 251 space-time co-ordinate variables. Just as Article 5 showed that this number quantifies cycles of emanation of Sephiroth leading to what Theosophists call the cosmic and solar physical planes, so it expresses the geometrical degrees of freedom hidden in the superstring. Encoded in the Tree of Life is the map of all seven cosmic planes of consciousness (what the author calls the 'Cosmic Tree of Life,' or CTOL). A section of this prescribed by the ten Godnames bears a remarkable analogy to the string structure of the superstring predicted by the author and confirmed by century-old, psychic descriptions of the basic units of matter. That this is no coincidence is shown further by the characterisation of the geometry of this section of CTOL by the superstring parameter **496**, as well as by the encoding of the number 251 in *both* the outer and inner forms of the Tree of Life. The precise parallelism between these encodings reflects the profound design of the Tree of Life as the cosmic blueprint not only for realms of higher consciousness traditionally associated by religions with the after-life but also for the basic units of matter making up the physical universe. Matter as well as man is made in the 'Image of God.'

## References

1. *Extra-sensory Perception of Quarks*, Stephen M. Phillips (Theosophical Publishing House, Wheaton, U.S.A., 1980); *ESP of Quarks and Superstrings*, Stephen M. Phillips (New Age International, New Delhi, India, 1999);

2. *Occult Chemistry,* Annie Besant and C.W. Leadbeater, 3rd ed. (Theosophical Publishing House, Adyar, Chennai, India, 1951);

3. http://smphillips.8m.com;

4. Ibid.;

5. Addendum, *The Image of God in Matter*, Stephen M. Phillips (Bharatiya Vidya Bhavan, Mumbai, India, to be published).