

DID MAYANS KNOW 24-DIMENSIONAL ALGEBRA?

In 1973 Dr.Charles Musés published a tabulation of hyperspheres that can touch in higher dimensions (4th, 8th,...24th.) He named them T-numbers (“T” for touching.) His tabulations include many STU measures that had been recognized in the 1970’s.

The October 2* Science News gives a report entitled “Oddballs.” It cites recent sources at the University of Minnesota, the AT&T Laboratory (Florham Park, N.J.) and Moscow’s Keldysh Institute. It was declared that researchers had “figured out” what they renamed as “kissing numbers” in dimensions 8 and 24. They stated that it is possible to fit 240 spheres at the 8th dimension, and a “mind-boggling” 196,560 can be crowded around one identical sphere at the 24th.

The tabulation published by Dr. Musés is a document that was sent in 1975 to this author’s research files. Musés also prepared a special paper in 1974 for presentation at the International Conference for Psychotronic Research, held in Monte Carlo in June, 1975 (Bibliography below.) Is it possible that 30 years later these researchers may not have known Musés’ work?

An analysis of the whole number factors of 196,560 shows 151 divisors, of which 55 (more than one-third) appear as dimensions in STU at Teotihuacan. A selection (see p.3) is formed by thirteen of the largest factors (144 to 2,160) and thirteen smaller numbers (3 to 117.) This confirms that at least 26 significant hypersphere factors are included in the design of a Mayan Ceremonial Zone.

The factors also appear elsewhere, not only in dimensions but also in Mayan Long Counts (Palenque, Copan, Edzná, Chichen-Itzá, and others.)

These data support the conjecture that Mayans did not stumble haphazardly on specialized mathematics. Following are references, tabulation of T-numbers, factors that appear at Teotihuacan and selected planetary alignment count numbers.

*Klarreich, Erica, “Oddballs,” Sc.News, Vol.166, No.14, pp.219-221, Oct.2, 2004.

Ref: MUSÉS, Charles, Research Notes, *Journal for the Study of Consciousness*, 1973. _____, Psychotronic Quantum Theory, Centre de Recherches En Mathématiques et Morphologie, Santa Barbara, CA 93108, Nov. 27, 1974, p. 1-4, (for presentation at the IAPR Conference, Monte Carlo, June, 1975.)

- (a) (p.1, Op.Cit.)(handwritten insertion):'exponential orbit' is the path traced by +/- e to the exponent (θ)(u), where 'theta' is any ordinary number, rational or *irrational*, u is an hypernumber; e = the natural logarithmic base. [N.B.: (March, 2004) Harleston derived 5 numbers from: e to the exponent (12^{th} root of 2,) with ' u ' being equal to the number "1" but did not associate this with hypernumbers or Musés' work. This becomes 2.88482169636... rewritten as 288 48 216 96 36...five significant numbers found in Mexico in STU and at the Greek Parthenon in Pythagorean Diatonic Units.]
- (b) (p.4, Op.Cit.)..."Interestingly enough, the fine structure constant is almost exactly $1/137$..." [N.B.: Harleston found 137 to be a factor in the calculation of the lunar synodic orbit at Teotihuacan. He noted that the fine constant might be a rational relationship:($37 / 27$)x100 =137.037037037...] Musés continues: ..."and 137 is the unit number of cells in a fundamental region of an 8-dimensional space-filling lattice; namely, 128 (8-dimensional) tetrahedra combined with 9 (8-dimensional) octahedra..."

[N.B.: "128"appears only once as the north to south base dimension in STU of the first pyramid built, now called "Moon," whose width was 144 STU, an integral factor of the 24-dimensional T-number 196,560 (= 1,365x144,) 128 is not a factor, but it is 2 to the seventh power. The Mayan Unit Measure, the STU, is 1.0594(63)...m.; i.e., the twelfth root of 2 in meters. Powers of "2" appear frequently, e.g., $2 \times 128 = 256 = 108 + 148$ STU = 16x16. The vertical height "16" appears to be marked only twice at Teotihuacan.]

- (c) (p.2,Op.Cit) Musés states: "higher dimensions" are not to be seen as "space" or "mass" or "time," but as new metadimensions induced by the presence of a hypernumber. [N.B.:This can mean moving from one conventional dimension to another with differing units, identified in a matrix formed by integral multipliers but not irrationals such as conventional Pi. An integral value is required, and modern units (lengths in meters, 360 angular degrees, 86,400 seconds per day) must be corrected to Mayan values. It was found (1970's) that a line can represent area; area can give eclipse count factors; a 312-STU square is 97,344; a vertical dimension of ten STU can represent its cube, the multiplier to define a known Mayan 365-day year-count of 97,344,000; i.e., a "Tzolkin (260) of Eras." An Era = 73 Oxlahkatuns of 1,872,000 days.]

04-01/TEO MAYAN TREASURE--SECTION IV (CONT'D) HARLESTON

24-DIMENSIONAL T-NUMBER ("KISSING" SPHERES): 196,560.

Dn = PRINCIPAL TEOTIHUACAN STU DEMARCATIONS AS FACTORS OF T-24

Dn	Integral F	SUBFACTORS	OTHER SUBFACTORS
2,160	91	7 x 13	---
1,872	105	7 x 15	7 x 3 x 5
1,512	130	2 x 5 x 13	4 x <u>378</u> (<u>Saturn</u> Synodic)
1,080	182	2 x 7 x 13	7 x 26
936	210	3 x 7 x 10	2 x 3 x 5 x 7
756	260	20 x 13 (a Tzolkin)	2 x 2 x 5 x 13
720	273	3 x 7 x 13	21 x 13
520	378	6 x 7 x 9	2 x 3 x 3 x 3 x 7
378	520	2 x 2 x 2 x 5 x 13	2 x 260 (a Txolkin)
312	630	2 x 3 x 3 x 5 x 7	(6 x 52) or (24 x 13)
252	780	3 x 260 (a Tzolkin)	(<u>Mars</u> Synodic Orbit)
216	910	2 x 5 x 7 x 13	14 x 65
144	1,365	3 x 5 x 7 x 13	21 x 65

13 SMALLER TEOTIHUACAN DEMARCATIONS AS FACTORS

<u>117</u>	1,680	3 x 5 x 7 x 16	(<u>Mercury</u> Synodic Orbit)
72	2,730	2 x 3 x 5 x 7 x 13	42 x 65
63	3,120	60 x 52	12 x 260 (a Tzolkin)
60	3,276	13 x 28 x 9	3 x 3 x 364
48	4,095	5 x 7 x 9 x 13	63 x 65
42	4,680	<u>234</u> x 20	(<u>Jupiter</u> Orbital Count)
36	5,460	3 x 4 x 5 x 7 x 13	60 x 91
21	9,360	90 x 104 (<u>Venus</u>)	30 x <u>312</u> (<u>Mars</u>)
20	9,828	108 x 91	(9 x 12)x(7x13)
12	16,380	2 x 5 x 39 x 42	63 x 260
10	19,656	2 x 3 x 4 x 7 x 9 x 13	21 x 936
6	32,760	13 x 28 x 90	3 x 4 x 5 x 6 x 7 x 13
3	65,520	2 x 3 x 4 x 5 x 6 x 7 x 13	5040 x 13

Mayans registered: Mercury (inferior conjunction) aligns each 52 vague years.

Venus and Mercury align with Earth and sun: 104 vague years.

Mars (opposition) aligns with Earth and sun: 156 vague years.

Mercury, Venus, Earth and Mars align: 312 vague years (365 days.)

$$(Dn) \times (F) = 196,560$$

See: Musés, C., Op.Cit., 1973, 1975.

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THE 2nd DIMENSION IS SIX CIRCLES AROUND ONE = 3! (3-FACTORIAL)
 THE 3rd DIMENSION IS TWELVE SPHERES AROUND ONE: =(3!) x (2).
 THE 4th DIMENSION T-NUMBER ("KISSING" SPHERES) IS 24 = 4!
 THE 5th DIMENSION IS 40, A SIGNIFICANT NUMBER IN MAYAN MURALS.
 THE 6th DIMENSION T# IS 72, THE N,S & E WALLS OF THE "CITADEL."
 THE 7th IS 126, ONE-THIRD OF 378, MARKED CLEARLY AT #3 PYRAMID.
 THE 8th IS 240, OR (5!) x 2 = 120 x 2.
 THE 9th IS 272; MUSES SHOWS A LARGER SPHERE WITH 360 SPHERES
 TOUCHING. 360 = MAYAN "TUN," 720 / 2; (source of Egyptian circle?)
 THE 10th IS 336, MARKED IN THE "CITADEL."
 THE 11 th IS 438, OR TWICE 219 = 6 x 73, ORBITAL MULTIPLIER.
 THE 12th IS 648 = 216 x 3; DISTANCE OF "216 STU" REPEATS.
 THE 13th IS 906 = 151 x 6.
 THE 14th IS 1,422 = 18 x 79.
 THE 15th IS 2,340 = 20 ORBITS OF MERCURY AT 117; EQUAL TO
 39 X 60, BOTH MARKED AT THE NO.3 PYRAMID ("CITADEL.")
 THE 16th IS 4,320 = 20 x 216; = 2 X 2160; = 60 x 72 = 6 x 720 = 36 x 120.
 THE 17th IS 5,346 = 6 x 11 x 9 x 9 = 81 x 66 (BOTH REPEAT IN STU.)
 THE 18th IS 7,398 = 54 x 137 (HydrogenFines: 1/alpha; or 8th Dimensionals?)
 THE 19th IS 10,668 = 12 x 889.
 THE 20th IS 17,400 = 29 x 600 (DEMARCATIONS SHOW 29 AS FACTOR)
 THE 21st IS 27,720 = 120 x 231 (BOTH MARKED IN THE "CITADEL."
 THE 22nd IS 49,896 = 216 x 231 (PROMINENT NUMBERS IN STU)
 THE 23rd IS 93,150 = 23 x 81 x 50 (ECLIPSE MULTIPLIER IS 23; 81 = 9x9.)
 THE 24th IS 196,560 = 13 PRINCIPAL DEMARCATIONS ARE FACTORS, p3.

T-NUMBER--24 DIMENSIONS = 196,560. FACTORS OF THIS NUMBER ARE:
 [underlined are given as dimensions in STU at Teotihuacan]

1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,18,20,21,24,26,27,28,30,35,36,39,40,42,45,48,52,54,
56,60,63,65,70,72,78,80,84,90,91,104,105,108,112,117,120,126,130,135,140,144,156,
168,180,182,189,195,208,210,216,234,240,252,260,270,273,280,312,315,336,351,360,
364,378,390,420,432,455,468,504,520,546,560,585,756,780,819,840,910,936,945,1008,
1040,1080,1092,1170,1260,1365,1404,1456,1512,1560,1638,1680,1755,1820,1872,1890,
2160,2184,2340,2457,2520,2730,2808,3024,3120,3276,3510,3640,3780,4095,4368,4680,
4914,5460,5040,5616,6552,7020,7280,7560,8190,9360,9828,10920,12285,13104,14040,
16380,21840,24570,28080,32760,39312,49140,65520,98280,196560.

[Of the 151 factors, 55 appear at Teotihuacan as STU dimensions = 36.4%]
 MULTIPLIED BY (6) = SIX SETS OF 24-DIMENSIONAL "KISSING" SPHERES, THE
 PRODUCT IS 1,179,360 (NOTE MAYAN 117 9360, OR MERCURY'S SYNODIC ORBIT
 IN DAYS AND THE 13-KATUN COUNT DIVIDED BY TEN) THE FACTORS INCLUDE
 96 AND 288: 288 x 4095 = 96 x 12285 = 1,17 936 0.