

# **Egyptian Genesis**

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Frank Dodd (Tony) Smith, Jr. - 2010

## Creation (Genesis 1) - 15,330,000,000 years ago

Stan Tenen is a brilliant researcher ... into "geometric metaphor", which he describes as "... a coherent constellation of geometric models ... [that]... articulates ... that which is held in common by the many spiritual traditions of the ancient world ... as diverse as traditional meditational practices ... and the mathematics fundamental to contemporary biology, physics, and cosmology. ...".

Rob Nixon is involved in similar research, in the course of which he has produced much useful data, including the precise order of the 78,064 letters of Genesis.

A web site including the page at [www.mechon-mamre.org/p/pt/pt0101.htm](http://www.mechon-mamre.org/p/pt/pt0101.htm) has a side-by-side Hebrew-English version of Genesis which is used herein.

A starting point for these pages is a conjectural idea that Perfect Numbers may be one of the keys to understanding the Torah sequence. The Perfect Numbers are numbers that are themselves the sum of their proper factors:

- $0 = 0$
- $1 = 1$
- $6 = 1 + 2 + 3$  (related to the Mersenne Prime  $3 = 2^2 - 1$ )
- $28 = 1 + 2 + 4 + 7 + 14$  (related to the Mersenne Prime  $7 = 2^3 - 1$ )
- $496 = 1 + 2 + 4 + 8 + 16 + 31 + 62 + 124 + 248$  (related to the Mersenne Prime  $31 = 2^5 - 1$ )
- $8,128 = 1 + 2 + 4 + 8 + 16 + 32 + 64 + 127 + 254 + 508 + 1,016 + 2,032 + 4,064$  (related to the Mersenne Prime  $127 = 2^7 - 1$ )
- $33,550,336$  (related to the Mersenne Prime  $8,191 = 2^{13} - 1$ ) (since the entire Torah contains only 304,805 letters (i.e., the 22 Hebrew

letters plus 5 finals), this and larger Perfect Numbers may not be directly relevant to understanding the Torah)

- and larger numbers

Here are the Torah places of the Perfect Numbers smaller than 33,550,336 along with comments (images mostly from Stan Tenen):

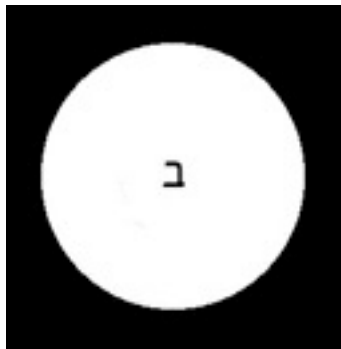
## Genesis Chapter 1 בְּרֵאשִׁית 1

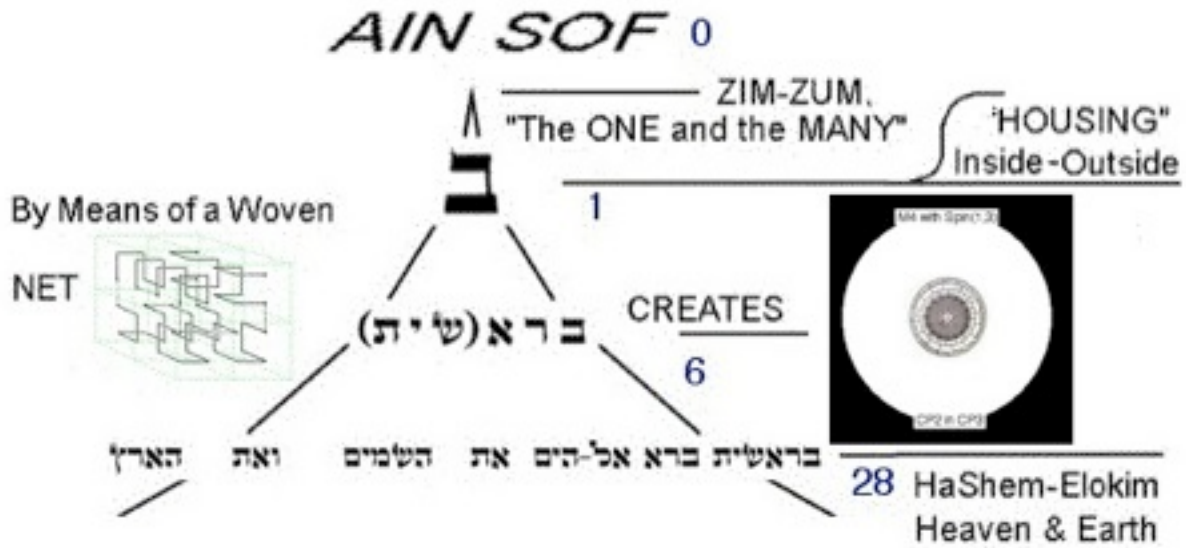
**0 - the letter Aleph א (1st letter) placed Before the First Verse - Ain Sof - Empty Set - Spin(0) = 0**

Ain Sof is described by Stan Tenen as "... a name that indicates an eternal phase or that which is "before" the beginning of the beginning - before the distinction that made the distinction between the two senses of the infinite. That name is Ain Sof, and it means, simply, without limit: The undifferentiated infinite as such. The Ain Sof is that which exists prior to the very possibility of distinction ...".

**1 first letter of the first word of the First Verse, the letter**

**Bet ב (2nd letter) - Yin/Yang - Spin(1) = {-1,+1}**



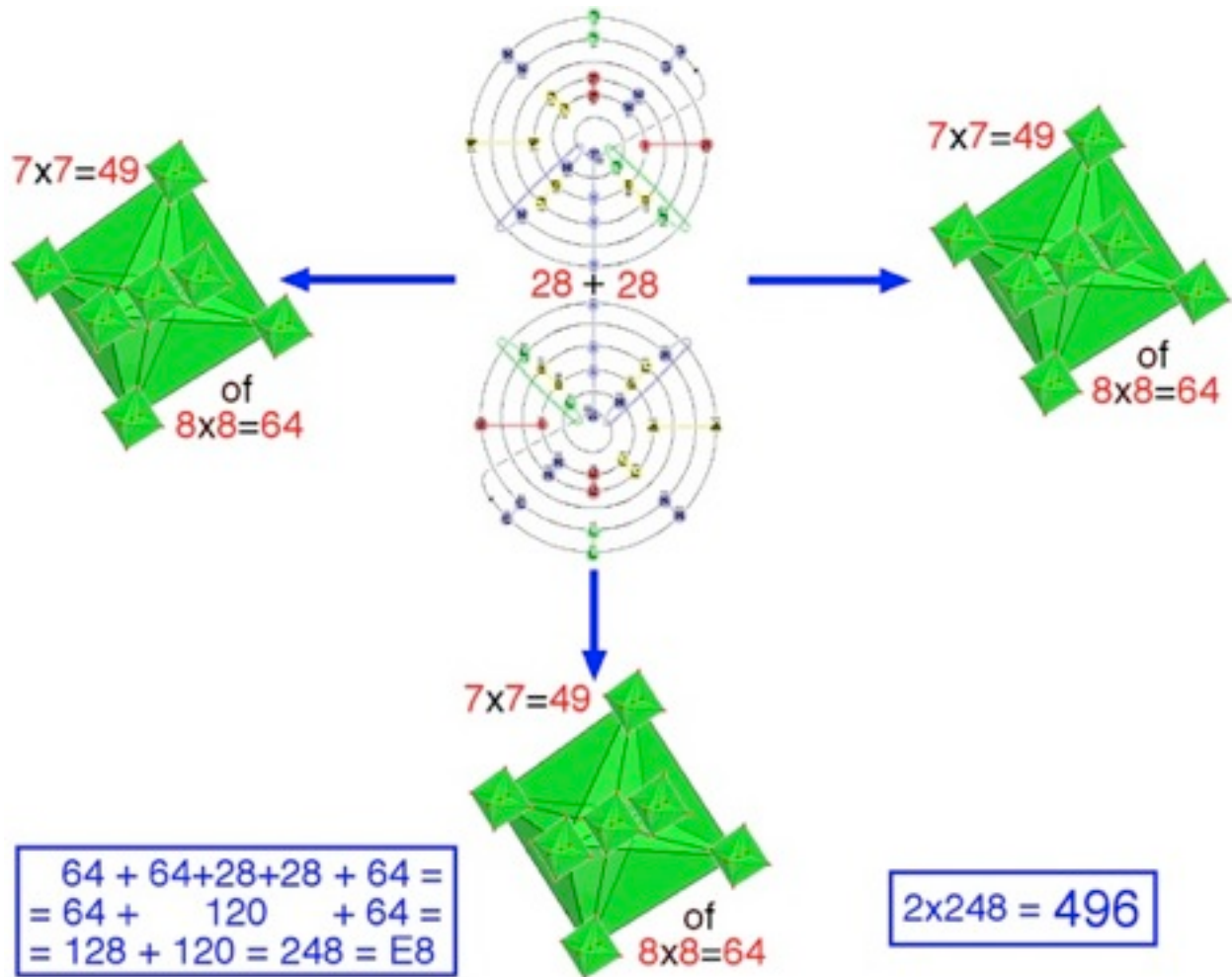


**6 letters through the last letter Tav ת (22nd letter) of the First Word - Conformal Space of Spin(2,4) = SU(2,2)**

**28 letters through the last letter Zadi-final ך (27th letter) Chapter 1 Verse 1 - Spin(8)**



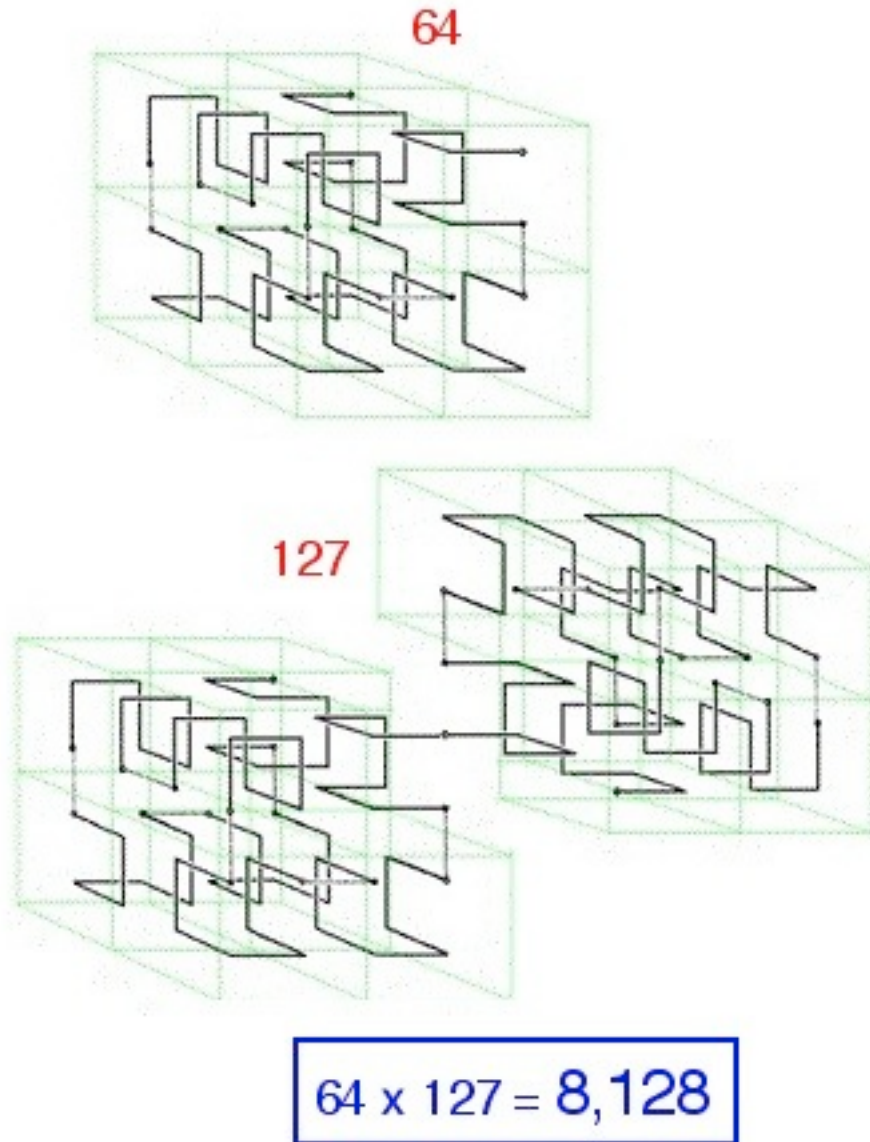
Letter 496 = 2x248 is the last Shin  $\Psi$  ( 21st letter) in Chapter 1 Verse 11 - 2 copies of E8

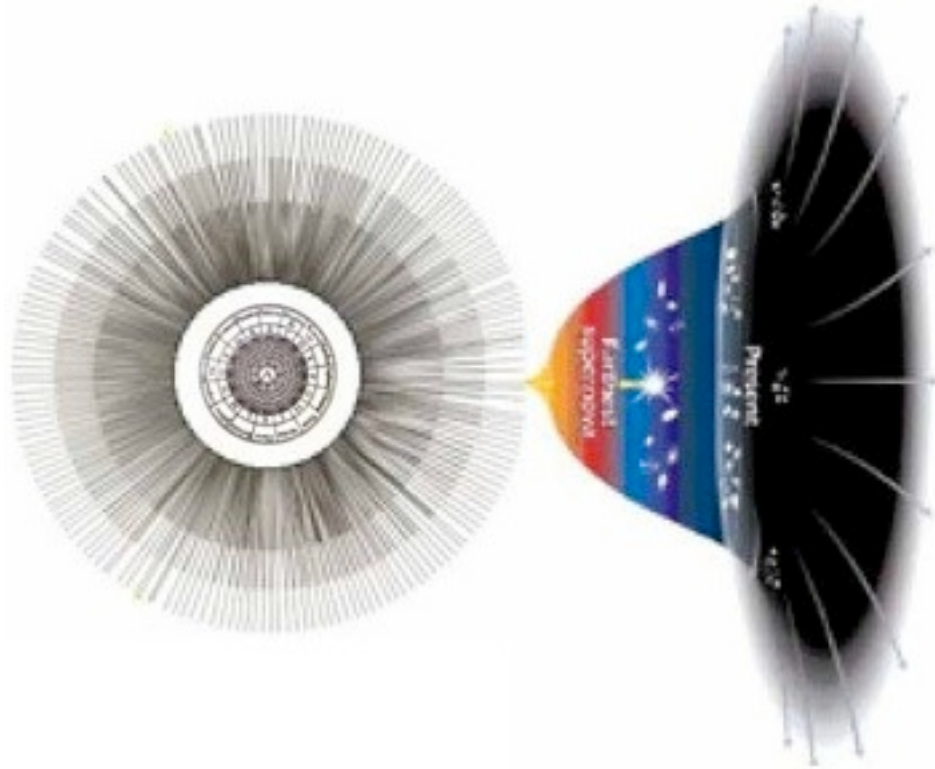


The 248 of E8 is represented throughout entire Torah, in that the Torah contains 613 Commandments of which 248 are Positive Commandments representing E8. The 365 Negative Commandments correspond to the central number in the 27x27 Magic Square and the 9x9x9 Magic Cube.

**Letter 8128 = 64x127 is the fourth Ayin  $\psi$  (16th letter) in Chapter 7 Verse 4 - 8128 = 64x(128-1)**

$Cl(64) = Cl(8) \times Cl(8) \times Cl(8) \times Cl(8) \times Cl(8) \times Cl(8) \times Cl(8) \times Cl(8)$   
 $2^{128}$  fermion pairs of the Universe Immediately After Inflation





At the End of Inflation  $10^{(-34 \text{ sec})}$  the number of qubits in Our Universe is  $N_{\text{decoh}} = 10^{19} = 2^{64}$  which is only one order of magnitude larger than the number of tubulins  $10^{18}$  of the human brain.

$2^{64}$  Superposition States of Our Universe undergo Decoherent Collapse into Many Worlds of the Many-Worlds Quantum Theory, only one of which Worlds is our World. This Zizzi Self-Decoherence can be compared to a Quantum Consciousness Thought in the Mind of Man which is thus an image of the Mind of Our Inflationary Universe.

The present Age of our Universe was calculated from the 42-letter name at the start of Genesis by Nechunya (1st century AD) and DeMin Acco (13th century AD) as  $42 \times 1,000 \times 365 \times 1,000 = 15,330,000,000$  years. The present scale of our Universe is about  $R(\text{tnow}) = 10^{28}$  cm and its accelerating expansion is due to Dark Energy of Conformal Gravity in the E8 Physics model which gives a ratio of **0.753 : 0.202 : 0.045** for **Dark Energy : Dark Matter : Ordinary Matter**.

According to Bernard Pick's 1913 work The Cabala on a sacred-texts.com web page:

"... the Zohar is ... [a] production ... of ... thirteenth century ... Spain ... by Moses de Leon (1250-1305) ...".

According to web pages by Rabbi Moshe Miller about Arizal on the www.safed-kabbalah.com web site:

"... Rabbi Yitzchak Luria (the Arizal) ... 1534-1572 c.e. ... set out to explain ... the kabbalistic literature ... particularly Zohar ... There are five areas of focus in the Arizal's teachings ... :

the concept of **tzimtzum** (G-d's self-contraction, so to speak) through its various stages ... the tzimtzum ... established a radical distinction between Creator and created (from the viewpoint of the created, although not from the viewpoint of the Creator ... ), ... so that **creation comes about by way of a "quantum leap"** ...

the process of **shevirat hakeilim** (the shattering of the vessels in the world of Tohu);

the **Tikkun** (rectification) of that shevira through **birur hanitzotzot** (elevating the sparks);

the concept of **partzufim** (literally, "visages" - compound structures of the sefirot in arrays that interact with each other);

the nature of the **soul**, the purpose of its descent into this world, and its relationship with the higher realms and ultimately with G-d. ...".

The mathematical structure underlying that Quantum Leap can be seen as in terms of the 6 letters of the first word of the First Verse of Genesis:

א

the 0-dimensional Natural Numbers created from the Empty Set by the Peano unitizer operation  $0 \rightarrow \{0\} = 1$  as described by David Finkelstein in his book "Quantum Relativity" (Springer 1996)

ב

the 1-dimensional Real Numbers created from the Natural Numbers by ratios and completion

ג

the 2-dimensional Algebraically Complete Complex Numbers created from the Real Numbers by Cayley-Dickson Doubling

ד

the 4-dimensional Associative NonCommutative Quaternions created from the Complex Numbers by Cayley-Dickson Doubling

ה

the 8-dimensional Alternative NonAssociative Octonions created from the Quaternions by Cayley-Dickson Doubling

ו

the 16-dimensional Sedenions created from the Quaternions by Cayley-Dickson Doubling

The shattering of Division Algebra structure at the formation of the **Sedenions, which have non-trivial Zero Divisors** as described by Guillermo Moreno in arXiv math/0512517 and by Robert P. C. de Marrais in his papers including arXiv 0804.3416.

Sedenions are described by Jaak Lohmus, Eugene Paal, and Leo Sorgsepp in their book "Nonassociative Algebras in Physics" (Hadronic Press 1994) as

"... a ternary algebra ...[in which]... two sedenions  $A, C, \dots$  are represented by L-, R-type 16x16-matrices and the third one,  $B, \dots$  by 16-columns ...".

The 16x16-matrices of Real Numbers are a regular birepresentation of the left and right actions of the Sedenions and form the 256-dimensional Real Clifford Algebra  $Cl(8)$ .

The left action is represented by a Left-Action 16-column  $SpL16$  corresponding to a copy of the  $Cl(8)$  Spinors.

The right action is represented by a Right-Action 16-column  $SpR16$  corresponding to a copy of the  $Cl(8)$  Spinors.

$SpL16 + SpR16$  represent a 32-Real-dimensional space  $E6 / D5 \times U(1)$ .

The total representation of the Ternary Sedenions that emerges after the shattering of Division Algebra structure is  $SpL16 + Cl(8) + SpR16$  which has  $16L + 256 + 16R = 288$  dimensions.

**The 288 dimensions representing Ternary Sedenions are referred to by the Arizal as the 288 nitzotzin ("sparks") - the initial number of fragments from the vessels that broke.**

## Eden (Genesis 2) - 50,000 years ago

According to the National Geographic Genographic project

by about 50,000 years ago the **Human Maternal mtDNA Population** had evolved/migrated from Africa and established a cross-roads population center at Eden



near the Mediterranean, Black, and Caspian Seas (haplogroup N)





(above image from “The Book of Genesis” by R. Crumb (Norton 2009))



**Also around 50,000 years ago, the Paternal Human Y-Chromosome DNA Population had emerged in Africa**

with a major branch (M89) crossing the Red Sea and moving into Eden



where **Biblical Eve and Adam began the History of Genesis.**  
The mitochondrial mtDNA Markers of this map from the National Geographic Genographic program



show that migration out of the Urartian Eden of Genesis near Lake Van took place around 50 kyr to 30 kyr ago, somewhat before the highest lake levels of Lake Van (about 18 kyr ago), and so was possibly related to volcanic activity of Nemrut Dagi, which might have been the “Flame of the Whirling Sword” in the Genesis story of Expulsion from Eden



(above image from “The Book of Genesis” by R. Crumb (Norton 2009))

After the Expulsion, around 40,000 years ago, most of the people went out by the red path to the Pamir Knot



from whence they branched out to form the core populations of Europe, China, and India.

However, the Biblical People stayed closer to Eden, because the Expulsion occurred during the Ice Age when sea levels were low

and the Persian Gulf was a large fertile Tigris/Euphrates valley



which is where many of the descendants of Biblical Adam and Eve settled and remained for many thousands of years.

## **Boskop Era - Nabta Playa - 31,000 to 17,000 years ago**

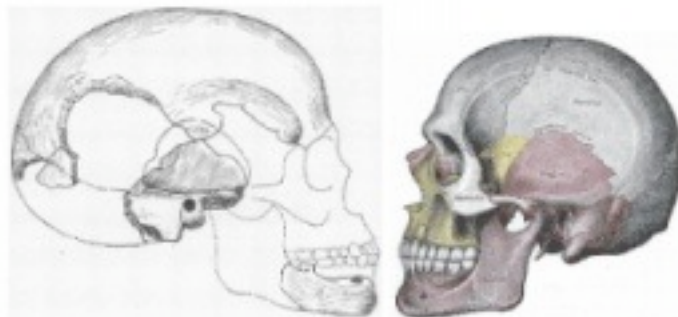
Meanwhile, back in the African Homeland, something important was happening: According to the book *Big Brain* by Gary Lynch and Richard Granger (Macmillan 2008)

**the Boskop "... walked the plains of southern Africa ... 30,000 ... to ... 10,000 years ago ...**



[ (image from [www.dwaf.gov.za](http://www.dwaf.gov.za) web site) ]

**they were about our size ...**



Comparison of Restoration of Boskop skull next to a Modern Human Skull.

[ (image is from a 29 April 2008 [ebcak.com](http://ebcak.com) post by [admin@ebcak](http://admin@ebcak.com)) ]

**but their brains were far larger than our own. ...".**

According to a 28 Dec. 2009 Discover Magazine article by Gary Lynch and Richard Granger: "... In the autumn of 1913, two farmers ... uncovered ... hominid skull fragments ... while digging a drainage ditch ...[in]... Boskop, a small town about 200 miles inland from the east coast of South Africa. ... Boskop's brain size is about 30 percent larger than our own - that is, a 1,750-cc brain to our average of 1,350 cc ... possibly the jump from ourselves to **Boskop's generated new, qualitatively different mental capacities**. ... about 100 miles from the original Boskop discovery site ... had been at one time a communal living center, perhaps tens of thousands of years ago ...".

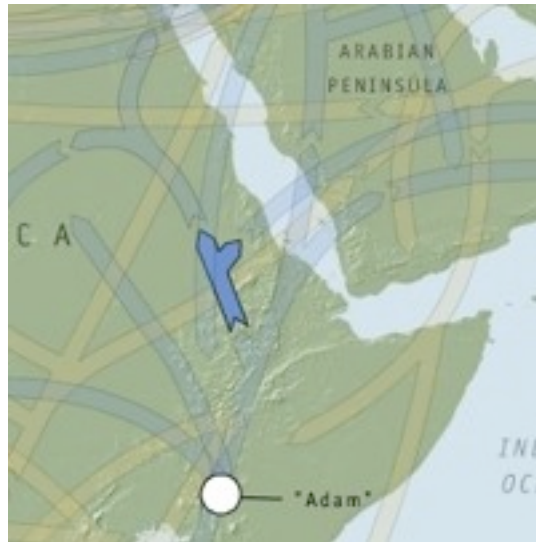
### Who were the Boskop ?

Not all the maternal mtDNA people went out of Africa and up to Eden. According to the National Geographic Genographic project: "... mtDNA haplogroup L0 first appeared around 100,000 years ago ...



Many L0 individuals in America share mitochondrial lineages with individuals from Mozambique. ...”.

Not all the paternal Y-chromosome people went from Africa across the Red Sea to Arabia and up to Eden. About 50,000 years ago the Y-chromosome YAP people, rather than crossing the Red Sea into Arabia,

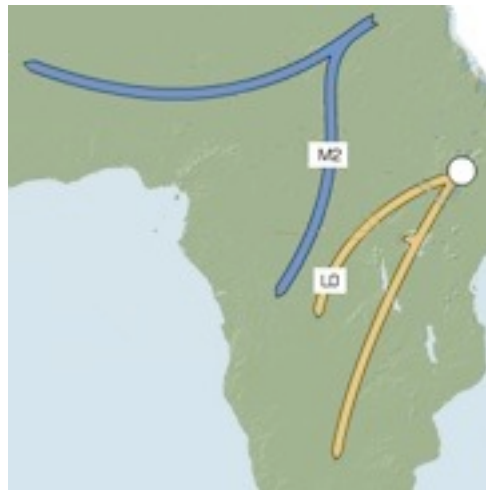


remained in Africa and moved Northward down the Nile River, as shown on the red line on the globe below. Soon (about 50,000 years ago) the Y-chromosome M174 (yellow line going East) line split off on an



Indian Ocean / Pacific Ocean route to populate Japan and inland to Tibet.

The Red Line continued as M96 North up the Nile until it split, around 30,000 years ago, into those who formed M35 and continued down the Nile and into the Mediterranean (yellow line going North) and the M2 (red line going SouthWest) who went back to meet up with the L0 mtDNA people.



**The Boskop subpopulation may have emerged from the L0 / M2 people around the beginning of the Ice Age about 35,000 years ago.**

Perhaps the Boskop were who Richard Poe had in mind when in his book "Black Spark, White Fire" (Prima 1997) he quoted Diodorus of Sicily, author of Bibliotheca Historica who lived in the time of Julius Caesar and Augustus (see Encyclopaedia Britannica) as saying:

"Now the Ethiopians ... were the first of all men. ... the Egyptians are colonists sent out by the Ethiopians, Osiris having been the leader of the colony ... Osiris ... gathered together a great army, with the intention of visiting all the inhabited earth and teaching the race of men how to cultivate ... for he supposed that if he made men give up their savagery and adopt a gentle manner of life he would receive immortal honors. ...".

## What did the Boskop do ?

If the Boskop ranged from South Africa up through the Nile River valley, then they may have been the creators of the Nabta Playa structures. Fred Wendorf and Romuald Schild in *Journal of Anthropological Archaeology* 17 (1998) 97-123 said: "... Nabta Playa ...[is]... located near the southeastern edge of the Western Desert, about 100 km west of Abu Simbel ...



... The Western Desert was hyperarid from shortly after 70,000 years ago [ the time of the Toba volcanic eruption that killed most of the a human population ] until around 12,500 to 13,000 cal B.P. During this arid period the water table fell to a level as low as or lower than that of today, and wind erosion scoured out numerous deep depressions in the bedrock. ... three groups of megalithic structures ...[ were discovered ]... on an extensive and relatively high remnant of ... playa sediments along the western edge of the Nabta basin.

There are approximately 30 of these “structures” in the largest group in an area 200 m wide and 500 m long .... Each of the “structures” consist of several large, roughly shaped sandstone blocks set on edge to frame an oval area about 5 to 6 m long and 4 to 5 m wide, in the center of

which is a large, north-south oriented rectangular slab (ca. 2 x 1.5 x 0.4 m). ... One of these structures is larger than the others and is set apart. Others are relatively small and occur in tight interlocking groups of up to eight units. ...

the largest ... had two large flat, horizontal central stones with a third large pyramid-shaped boulder resting on them. ... We expected to find a burial pit below the central stones ... instead ... At a depth of slightly more than 1 m below the surface ... was a large, carefully shaped stone ...



... slightly more than 2 m long, 1.25 m wide, and 0.5 m thick, and it weighs about 2.5 tons. ... Centered under the “sculpture” ... at a depth of 3.5 m below the surface, was a large bedrock mushroom-shaped table rock ...



... The table rock also had been carefully shaped and worked into a circular outline ... with a flat, smooth surface on top ...



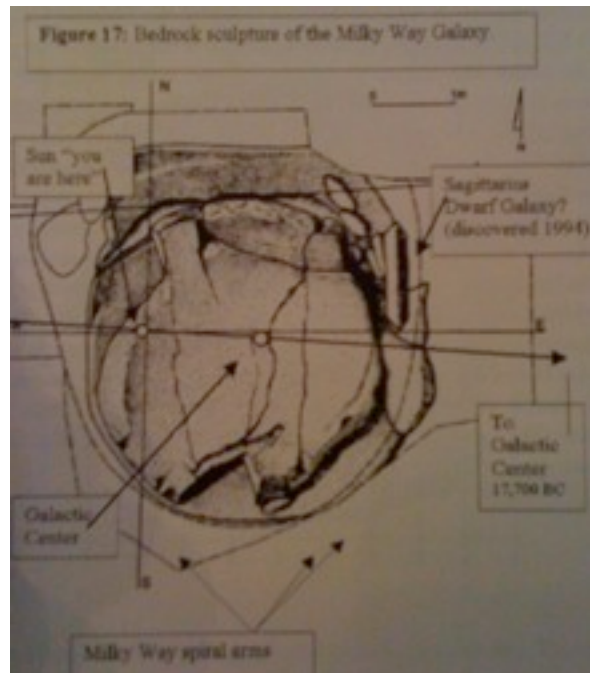
... It has two projections about 40 cm wide, one to the north, and the other to the southwest ... The area below the mushroom stone has yet to be excavated. ...”.

Mark H. Gaffney said, in a March/April 2006 Atlantis Rising article:  
“... The bedrock sculpture appears to be a made-to-scale map of the Milky Way as viewed from the outside, i.e., from the perspective of the north galactic pole. The map correctly indicates the position, scale, and orientation of our sun, and the placements of the spiral arms, the galactic center, even the associated Sagittarius dwarf galaxy that was only discovered in 1994. Although Wendorf’s excavation had dismantled the stone complex on the surface in the process of exhuming the underlying

sculpture, Brophy was able to determine from Wendorf's accurate diagrams/maps that the central point was directly above - and surely represented - the correct position of our sun on the galaxy map. Brophy then made another key discovery: One of the megalithic sight lines stood in relation to the galactic center. Its alignment marked the galactic center's vernal heliacal rising circa 17,700 B.C. Amazingly, the orientation of the galactic plane in the sculpture also jibed with this date. Brophy concluded that the stone sculpture was a map of the Milky Way as seen from the standpoint of the northern galactic pole. ...

Brophy ... turned his attention to the second stone complex excavated by Wendorf's team which, likewise, had produced no mortuary remains. Its size and placement suggested that it was a map of Andromeda, our sister galaxy. Calculations showed that its size - about double the Milky Way - and its placement may be consistent with Andromeda's known size/location. ...”.

Thomas G. Brophy, in his book “The Origin Map” (Writers Club 2002) said:  
“... These table rocks ...



... would have only been apparent several thousand years earlier [than 5,000 BC] before being covered by playa sediments ...”

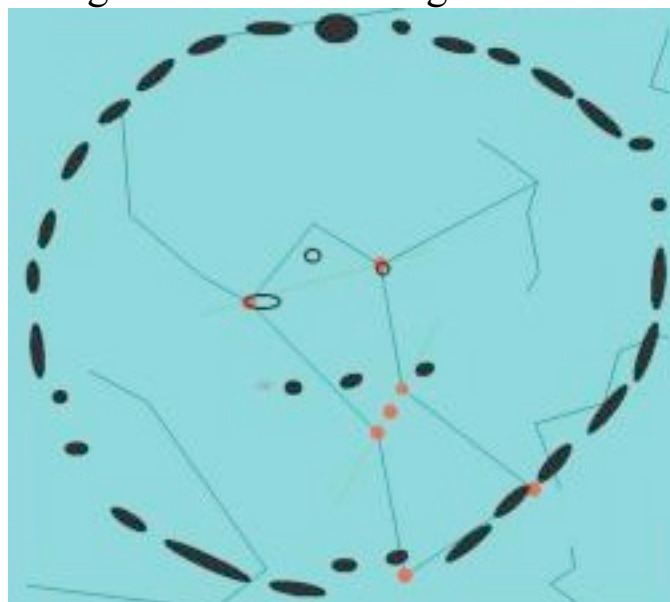
J. McK Malville, R. Schild, F. Wendorf and R. Brenmer in a July 2007 African Skies paper said:

“... a wadi entering Nabta Playa from the north ... ends in a small ... stone circle, on top of a small sandy knoll ... The circle, approximately 4 m across, contains sets of upright, narrow slabs aiming the eye approximately to the north and to the position of the rising sun at the summer solstice ...



The center of the ... stone circle ... contains six upright slabs, arranged in two lines ...”.

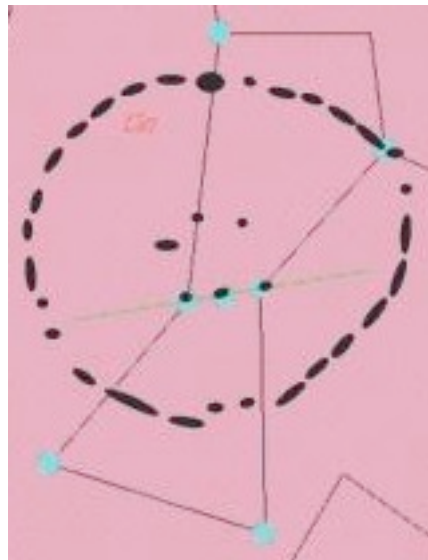
Thomas G. Brophy, in his book “The Origin Map” (Writers Club 2002) said:  
“... 16,500 BC , 30 minutes before winter solstice sunrise Orion’s head and shoulders ... were on the meridian with the configuration shown in the calendar circle diagram ... the Shoulders angle reached angular maximum when their sky position was at autumnal equinox in 16,500 BC, matching the stone map. Also the very bright star Betelgeuse ... is represented by the largest stone in the diagram. ...



... [one] half of the circle ... is rather precisely circular. The west half of the ring ... seems adjusted to scale to fit the Orion congruences ... On 16,500 BC both of Orion's feet are on the circle with ...[one]... foot on the edge of the meridian window, and his up-stretched hand is on the stone circle as well. ... On the 16,500 BC match date Orion is half way down its descent in the sky, with ground figure size conceptually decreased. ... On the precisely circular circular half of the circle, there are twelve stones (counting the sight line window as one) suggesting that the diagram might also signify the partition of the Zodiac into twelve ages and the year into twelve months. ...

Egyptians signified great importance to the constellation Orion ... associating it with the primary deity Osiris ...

31,330 BC ... was the time when Orion's Belt ... matched the stone diagram ...



... congruent to the meridian 15 minutes before summer solstice sunrise. ... “.

In his 1907 book "Ancient Egypt" Gerald Massey said: "... It was asserted by Martianus Capella that the Egyptians had secretly cultivated the science of astronomy for 40,000 years before it was made known to the rest of the world ... As timekeepers, the astronomers of Egypt had thought and wrought, observed and registered on the scale of the great year of the universe. ... Once every twenty-six thousand years 'the world's great age

begins anew ... in the great cycle of precession, but only as a matter of chronology. ... In the great year of precession there are seven stations of the celestial pole, six of which are still identifiable in the constellations of Draconis, the Lesser Bear, Kepheus, Cygnus, Lyra, and Herakles. ...”.

According to the Human History Chronology of Manetho (Egyptian historian ca. 343 BC):

about 36,525 years ago Gods on Earth began to rule Earth;

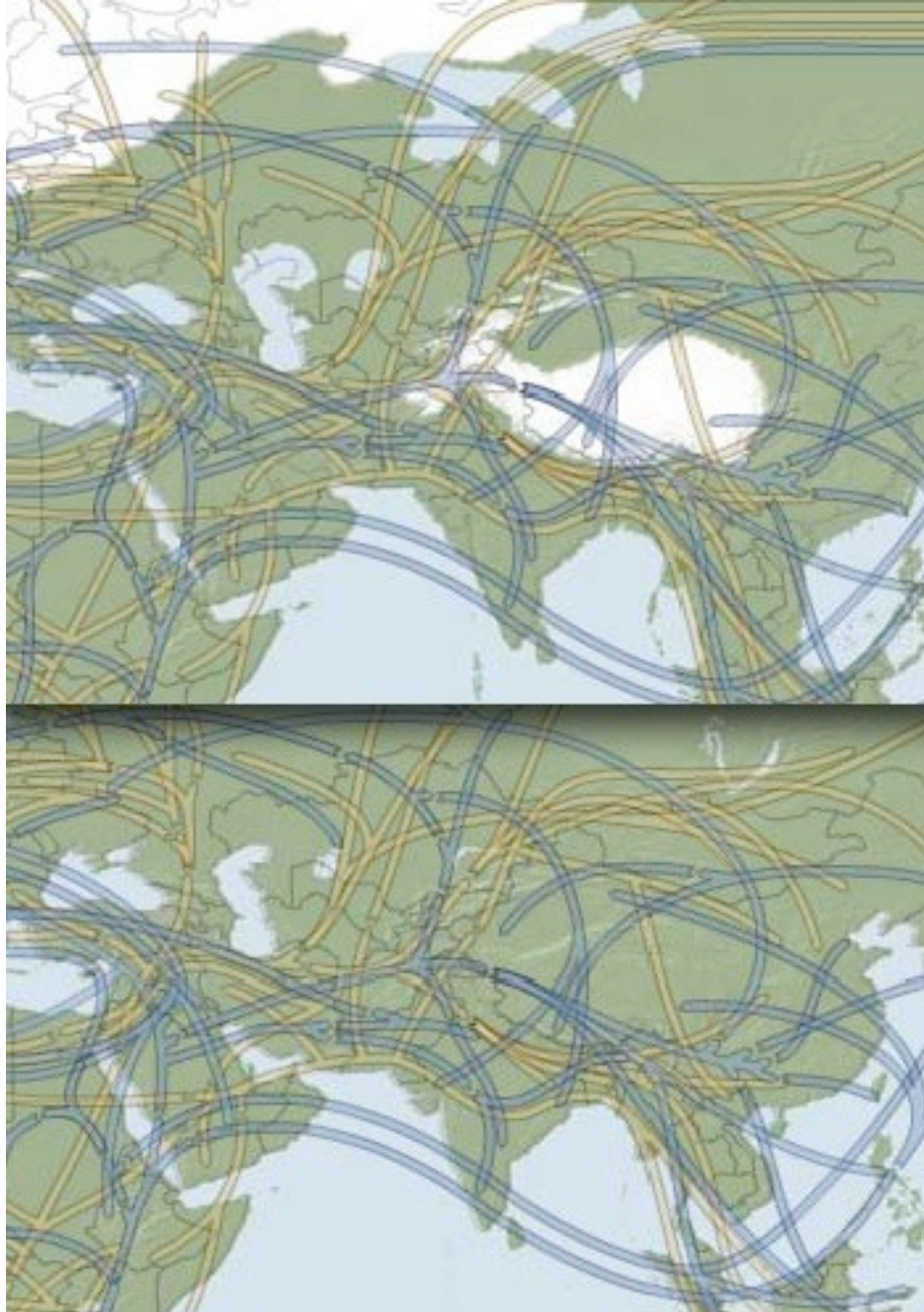
about 22,625 years ago when Demigods and Spirits of the Dead (followers of Horus) succeeded them;

about 11,600 years ago Mortal Humans began to rule Earth, ruling up to the present day.

So, from about 31,330 BC through 17,700 BC and 16,500 BC, it may be that the Boskop lived not only in South Africa but also in the African Nile / Abyssinia / Egypt region that (herein I sometimes refer to it only as Egypt) and that the Boskop not only had not only Big Brains but also Ancient Egyptian Advanced Scientific Knowledge, and even been the Gods-Demigods who ruled Earth during the 24,925 years from 36,525 years ago until about 11,600 years ago ?

## **Flood of Noah (Genesis 7) - 12,000 years ago**

Most of the Biblical People, having left Eden, had been living in what was the fertile Tigris/Euphrates valley (and is now the Persian Gulf)



when, around 12,000 years ago, the Sudden Warming at the end of the Younger Dryas melted glaciers, creating the Great Flood of Noah and the present-day Persian Gulf. The Great Flood having drastically

reducng arable land, food supply, and living space in the neighborhood



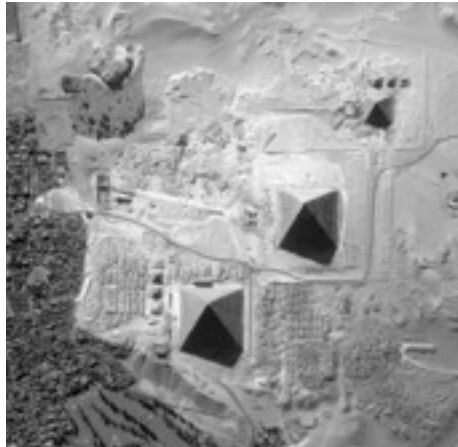
of Eden, the Biblical People returned to their original home in the African Nile / Abyssinia / Egypt region - here I will call it Egypt.

In his 1907 book "Ancient Egypt" Gerald Massey said: "... It was asserted by Martianus Capella that the Egyptians had secretly cultivated the science of astronomy for 40,000 years before it was made known to the rest of the world ... Ten thousand seven hundred and seventy-five years ago the equinox began to move out of the Lion sign into that of the Crab, and then and there a legendary catastrophe occurred. ... in speaking of the inundation at the end of the cycle it was foretold that the 'deluge would take, place when the heart of the Lion entered the first minute of the Crab's head at the declination of the star' - that is, the star Regulus, the lawgiver, in the Lion sign. ... Plato's account of what the priests of Egypt said to Solon identifies the 'great deluge of all' as having occurred about nine thousand years before that time - i.e., about 9600 BC, or eleven thousand five hundred years ago. ... Noah's lifetime ... ended with the ... deluge ...".

Back home in Egypt, the Biblical People of Genesis People were reintegrated into the African / Egyptian / Ethiopian Community.

## Tower of Babel (Genesis 11) - 10,000 years ago

Immediately after the Great Flood, the people of Egypt, and indeed of all the Earth, were unified beneficiaries of Advanced Scientific Knowledge of the Boskop Gods-demigods of Manetho who had ruled Earth since 36,525 years ago. The Egyptian labor force had been greatly increased by those who had been flooded out of the lowlands that were now under water, including the Persian Gulf, the Black Sea, and other oceans, so it was natural that the Egyptians would undertake the project described in **Genesis 11** “... **And the whole earth was of one language, and of one speech ... And they said, Go to, let us build us a city and a tower, whose top may reach unto heaven ...**” by building the Giza Complex



including the Great Pyramid



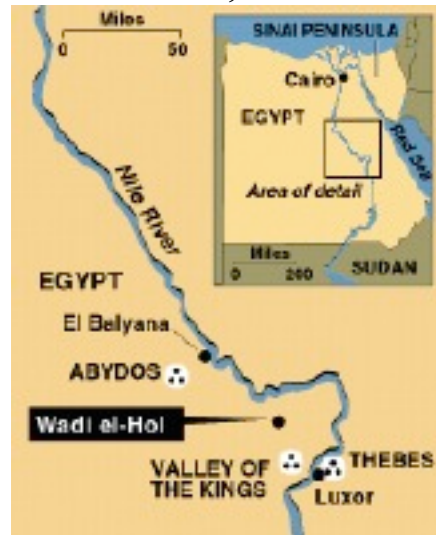
As the workers undertook the vast Giza Project, they found that they needed more efficient written communication than formal Egyptian hieroglyphics. Therefore, they invented the first alphabet, now known as the Hebrew alphabet, by designing each letter to correspond to a gesture used by workers in their communications with each other. As Stan Tenen said, "... Each letter represents and is displayed by a specific gesture whose meaning is intrinsic to the gesture itself ... When these gestures are preformed properly, the meanings designated by the letter text are imparted to the practitioner's body/mind at a pre-linguistic level ...".

The [www.charlesfinch.com](http://www.charlesfinch.com) website said: "... As Gerald Massey insisted, one can only grasp the meaning of astronomical mythology in ancient terms by reference to ... the Jungian Archetypes ... those natural images - turned into symbols - that were projected into the heavens by ancient African man and preserved intact in Egypt ... the Precessional ... Age of Leo ... began in ... 10,858 BC. However recent work by astrophysicist Thomas G. Brophy seems to pinpoint the start of the Age slightly earlier, i.e., 10,909 BC. Brophy works from the evidence provided by the Nabta Playa Stone Circle ... Brophy insists that **the Giza pyramids ... mark the location of the Galactic Center at its northern astronomical culmination circa 10,909 BC**. Given these facts, Brophy contends that this date - 10,909 BC - must mark the beginning of the Age of Leo ... Leo is represented in Egypt by **the Sphinx that ... was constructed with a precise orientation to the constellation of Leo as it rose heliacally around 10,500 BC**. ...".

Since the design of the Giza Project and its Pyramids and Sphinx were to speak for themselves, no written markings (alphabetical or hieroglyphic) were placed on them.


































The oldest alphabetical writings that have been discovered by archaeology are indeed Semitic Egyptian, but they only go back to about 1900 to 1800 BC, and are much younger than the Giza Project.










A 13 November 1999 article by John Noble Wilford in The New York Times said:  
“... Carved in the cliffs of soft stone, ...



... writing, in a Semitic script with Egyptian influences, has been dated to somewhere between 1900 and 1800 B.C., two or three centuries earlier than previously recognized uses of a nascent alphabet. The first experiments with alphabet thus appeared to be the work of Semitic people living deep in Egypt ... evidence at the discovery site supports the idea of the alphabet as an invention by workaday people that simplified and democratized writing ... As such, alphabetic writing was revolutionary in a sense comparable to the invention of the printing press much later. Alphabetic writing emerged as a kind of shorthand by which fewer than 30 symbols, each one representing a single sound, could be combined to form words for a wide variety of ideas and things. ... enough of the symbols in the inscriptions were identical or similar to later Semitic alphabetic writing to conclude that ... this belongs to a single evolution of the alphabet ... this puts the origins of alphabetic writing well before the probable time of the biblical story of Joseph being delivered by his brothers into Egyptian bondage, the scholars said. The Semites involved in the alphabet invention would have been part of an earlier population of alienworkers in Egypt. ...”.

Here, on the next page, are Stan Tenen’s correspondences between hand gestures and the 22 letters plus 5 finals of the Hebrew alphabet:

	א אָ אַ אֵ אֵי אֵי "Ox," "Master" ALL	א ALEF		ת תתתת TOV "Sign" ITSELF mirror	
	ב בּ בְּ בֵּ בֵי "House" BREAK OUT	ב BET		ש שששש SHIN "Tooth" SHINE express	
	ג גּ גְּ גֵּ גֵי "Camel" COME and GO	ג GIMEL		ר רררר RESH "Head" REACHING Inflate, rotate	
	ד דּ דְּ דֵּ דֵי "Door" DIVIDE pour, pour	ד DALET		ק קקקק QOF "Monkey" COPY skull	
	ה הּ הְּ הֵּ הֵי "Window" THE, face	ה HE		ז זזזז ZADI "Righteous" RIGHTEOUS greatest	
	ו וּ וְּ וֵּ וֵי "Pin" MULTIPLY spine	ו VAV		פ פפפפ PE "Mouth" FULLNESS speak	
	ז זּ זְּ זֵּ זֵי "Spear" GO OUT project	ז ZAYIN		ע עעעע AYIN "Eye" SPECTRUM full-circle	
	ח חּ חְּ חֵּ חֵי "Fenced Field" SURROUND boundary	ח CHET		ס סססס SAMEK "Support" SUPPORT	
	ט טּ טְּ טֵּ טֵי "Snake" COMPLETE bound	ט TET		נ ננננ NUN "Fish" CONNECT neck	
	י יּ יְּ יֵּ יֵי "Hand" HAND will	י YOD		מ ממממ MEM "Water" SOURCE from	
	כ כּ כְּ כֵּ כֵי "Palm" HOLD fervency	כ KAF		ל לללל LAMED "Learn" LEARN to, towards	

		כ כּ כְּ כֵּ כֵי KAF Final HOLD possessive			נ נּ נְּ נֵּ נֵי NUN Final to 5th Degree to infinity
		מ ממממ MEM Final EXPANSE			פ פּ פְּ פֵּ פֵי PE Final PUFF OUT
		ז זזזז ZADI Final RIGHTEOUS greatest			

David Sacks, in his book "Language Visible" (Broadway Books 2003) said:

"... Aside from the nonalphabetic writing systems of China and Japan, almost all major scripts in use today, anywhere in the world, belong to a single "alphabet family" ...[that]... stems entirely from the first Semitic-language alphabet of [ no later than ] 2000 B.C. ... Repeatedly ... the letters of one alphabet were copied and fitted to a new language. ... The recipients typically had no existing writing system. But they were able to borrow the 22 or 24 or so letters they saw being used for someone else's tongue and to adjust those foreign symbols to fit sounds of their own tongue ...".

## **The Fall of the Boskop Babel (Genesis 11) - 10,000 years ago**

David Sacks, in his book "Language Visible" (Broadway Books 2003) said:

"... Repeatedly ... the letters of one alphabet were copied and fitted to a new language. ... The recipients ... were able to borrow the 22 or 24 or so letters they saw being used for someone else's tongue and to adjust those foreign symbols to fit sounds of their own tongue ...".

That enabled the Giza Project workers, and everyone else in the world, to write in different languages without having to learn a difficult, but unifying, Egyptian hieroglyphic language.

In turn, that fostered political division and conflict.

(Parenthetically, it is interesting that when the Chinese gave printing press technology to the Europeans, the Chinese warned the Europeans against using printing presses with alphabetical type precisely because the alphabetical type would foster political division and conflict, which indeed did happen with Europe evolving into many nations and many languages all using the same alphabet.

China heeded its own advice, and remains unified to this day with a single unifying language of thousands of individual characters that all Chinese must learn, despite the fact that over many past centuries many regions of China have spoken languages that have not been understandable by people from other regions of China.)

After the Great Flood, rising sea levels flooded much productive land creating shortages of food. There were two alternative ways for humans to deal with the situation:

- 1 - to apply Boskopian wisdom to cooperative endeavors to increase food production and to share the fruits of those efforts;
- 2 - to form competitive groups to fight to take existing resources and kill competitors (and, necessarily, to kill of the Boskop who would oppose that approach, called by Terence McKenna "tooth-and-claw dominance").

With the help of the alphabet, humans chose number 2, as was clearly stated in Genesis 11:

“... the LORD did there confound the language of all the earth; and from thence did the LORD scatter them abroad upon the face of all the earth ...”.

Shannon Dorey in “The master of Speech” (Trafford 2002, 2005) said [ my insertions are set off by brackets ]: “... Marcel Griaule’s book “Conversations with Ogotemmel” ... recorded the Dogon religion ...

According to the Dogon, the Nummo ... known as “Heaven’s Smiths” ... were ... identified with ... the pentacle, the five-pointed star representing the sacred feminine, the ... Golden Ratio ...

[ The pentacle is the simplex in 4 dimensions and forms the basis of the 4-dimensional spacetime HyperDiamond Lattice of the 4-dimensional Feynman Checkerboard physics model. ]

The Nummo correspond to the human ancestors who evolved in Africa (yellow lines)



about 200,000 years ago to have modern maternal mitochondrial mtDNA. ]

Ogotemmel described ... two types of human/Nummo hybrids ... One type ... was androgynous ... The other ... was ... a single-sexed male known as “the jackal” ... [ whose ]... divination table ... was divided into six parts ...

[ 6-level divination is that of the  $2^6 = 64$  element I Ching, which itself is a quarter of the  $2^8 = 256$  element IFA Oracle divination based on the square of  $16 = 16 \times 16 = 256 = 2^8$  corresponding to the vertices of an 8-dimensional hypercube. Since the number of sub-hypercubes in an 8-dimensional hypercube is  $6,561 = 3^8$ , the IFA Oracle has  $N=8$  ternary 3-structure as well as  $N = 8$  binary 2-structure:

N	$2^N$	$3^N$
0		1
1		2 3
2		4 = 2x2 9 = 3x3
3	8	27
4	16 = 4x4	81 = 9x9
5	32	243
6	64 = 8x8	729 = 27x27
7	128	2187
8	256 = 16x16	6561 = 81x81

The 256-dimensional  $Cl(8)$  Clifford algebra gives the E8 Physics model which contains a 64-dimensional  $Cl(6)$  Clifford subalgebra for Conformal Gravity and another 64-dimensional  $Cl(6)$  Clifford subalgebra for the Standard Model. ]

In the Dogon religion, the “jackal” was synonymous with the “smith” ... and was identified with Sirius B ... the jackal ... [ caused ]... a worldwide fire. ...

[ The “worldwide fire” was the eruption of Toba in Sumatra about 71,000 to 74,000 years ago. Perhaps 1,000 million tons of aerosols were put into the stratosphere. According to a Discover article: “... Mount Toba ...[ was ]... the largest volcanic eruption in more than 400 million years. Toba buried most of India under ash and must have darkened skies over a third of the hemisphere for weeks. ... a six-year global volcanic winter ensued, caused by light-reflecting sulfur particles lingering in the atmosphere. Average summer temperatures dropped by 21 degrees at high latitudes, and 75 percent of the Northern Hemisphere's plants may have died. ... A thousand-year ice age began ... caused perhaps by an increasing amount of snow that failed to melt over the summer. This snow cover would have reflected more sunlight off Earth's surface, making the world still colder. Perhaps only a few thousand people ... survived ...[human]... genetic homogeneity is the result of a “population bottleneck” ...”. ]

... the fire resulted in humans being changed afterwards and losing most of their Nummo characteristics ...

[ The jackal/smith paternal Y-chromosome DNA mutation ( blue lines )



occurred in Africa about 55,000 years ago, an evolutionary step probably precipitated by the stress of the Toba Volcano Population Bottleneck. ]

[ Griaule said ] “In those obscure beginnings of ... evolution ... the first human couple ... had eight separate lines of descendants ... four males and ... four females ... All the eight ancestors in succession had to undergo ... transformation; but, when the turn of the seventh ancestor came, the change was... the mastery of words ...

[ The eight correspond to the Egyptian Ogdoad,  
the Chinese 8 Immortals, 8 Trigrams of the I Ching,

2x8 = 16 Orishas of IFA, 2<sup>8</sup> = 256 Odu of IFA Divination,  
the Buddhist 8-fold Way,  
and the 8 Octonion basis elements (7 of which are Imaginary). ]

The others equally possessed the knowledge of these words ... but they had not attained the mastery of them nor was it given to them to develop their use. What the seventh ancestor had received ... was the perfect knowledge of a Word - the second Word to be heard on earth, clearer than the first and not, like the first, reserved for particular recipients, but destined for all mankind. Thus he was able to achieve progress for the world. In particular, he enabled mankind to take precedence over ... the jackal ...[ who ]... still possessed knowledge of the first Word, and could still therefore reveal to diviners certain heavenly purposes ... It was not directly to men, but to the ant ... that the seventh ancestor ... Master of Speech ...[ who ]... was identified with the Pleiades star system ...

[ The seventh ancestor Master of Speech appeared somewhat over 30,000 years ago as Boskop human mutants who for tens of thousands of years were cooperative teachers of the jackal/smith paternal Y-chromosome humans. ]

imparted instruction. ...[ The Master of Speech ... used the teeth existing around the opening of an anthill to teach weaving to humans ]... prior to the descent into the anthill, men had lived in holes ... like the lairs of animals. ... When their attention was drawn ...[ by ]... the ancestors ... to ... the shape of the anthill ... they copied the shape of the anthill ... making passages and rooms ... and began to store the produce of the crops for food. They were thus advancing towards a less primitive way of life.”

This image of a Dogon Village is from

Ogotemmel [ said: ] “... the [Boskop] master of Speech ... assumed the body of a great serpent and a quarrel broke out ...[ with ]... the smith [ jackal ] ... the smith [ jackal ] ... advised men to kill the snake and eat its body and give him the head ... When he had the head the smith

[ jackal ] took it to the stone he used as a seat when hammering the iron; he made a hole, buried it and put the stone on top ...[

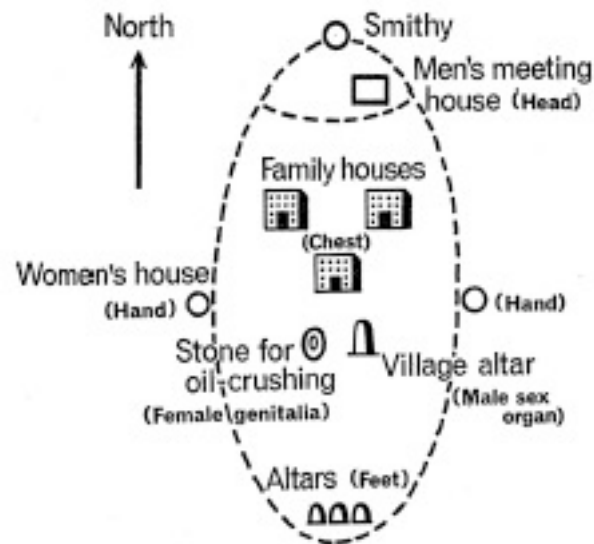


DIAGRAM 1. Dogon Village Scheme (from Griaule 1965: 95)

Dogon Village image from Andrew Apter's paper Cahiers d'Études africaines, XLV (1), 177, 2005, pp. 95-129. ]...

every smithy today ... when at work, is as it were sitting on the serpent's head ...".

In the Dogon religion the head of the Master of Speech was buried in the smithy ... The noises of the smithy were ... related to drums and music ... Ogotemmeli ... referred to numbers ... Robert Temple ... pointed out the mass of Sirius B was 1.053 that of our sun ... 1.053 was ... the ... value of the sacred fraction 256 / 243 ...

[ Plato, to construct a musical scale, used the full N=8

binary 2-structure of hypercubes but only N=5 of the ternary 3-structure of sub-hypercubes

N	2 <sup>N</sup>	3 <sup>N</sup>
0		1
1		2 3 = 2 + 1
2	4	9 = 4 + 4 + 1
3	8	27 = 8 + 12 + 6 + 1
4	16	81 = 16 + 32 + 24 + 8 + 1
5	32	243 = 32 + 80 + 80 + 40 + 10 + 1
6	64	
7	128	
8	256	

Plato used the numbers 256 and 243 to form the ratio 256/243, which, along with 9/8,

let him construct the the first octave as:

1 9/8 81/64 4/3 3/2 27/16 243/128 2

by using the multiplicative intervals:

9/8 9/8 256/243 9/8 9/8 9/8 256/243 ]

music ...[ was ]... symbolic of the “third word”;

in the same way ... the “second word” ...[ was ]... symbolic of weaving ... Ogotemmel [ said: ] “Cultivation ...[ is ]... a form of weaving, a field like a blanket made of eight strips, the black and white squares being represented by the alternation of the mounds made at each step and the gaps between them ...”.

Motivated by the shortages of land and food following the Great Flood, human followers of the "tooth-and-claw dominance" of the Jackal/Smith annihilated the peacefully cooperative Boskop Masters of Speech.

As Gary Lynch and Richard Granger said in the 28 Dec. 2009 Discover Magazine: "... human history has often been a history of savagery. ... Perhaps the preternaturally civilized Boskops had no chance against our barbarous ancestors ...".

Not only might the "preternaturally civilized" Boskops have been at a physical disadvantage in fighting smaller-brain humans, but the social organizations useful in forming successful armies to seize resources might tend to create evolutionary pressure in favor of humans with less creativity and more blind-faith obedience to authority. As examples from the dominant power of the late 20th century, the USA Army trained soldiers that "there is the right way, the wrong way, and the Army way, and you will do it the Army way" because "you can't fight the Green Machine", and the USA Navy would disqualify sailors from working on nuclear power plants of ships and submarines if their test results showed too much creativity.

Further, as John Hawks said on his weblog on 30 March 2008, "... brains are [energetically] expensive ... brains take a long time to mature ... brains require high protein and fat consumption ...", all of which factors would work against the Boskop in an age of scarcity after about 11,600 years ago, so it is not surprising that John Hawks also noted that "**... there has been a reduction in the average brain size in South Africa during the last 10,000 years, and there have been parallel reductions in Europe and China -- pretty much everywhere we have decent samples of skeletons, it looks like brains have been shrinking ...**".

The deterioration can even be seen in the Egyptian Pyramids: The Boskopian Giza Pyramids of about 10,000 BC were the first, and were so well-designed that the designs spoke for themselves, with no need to add any writings (either alphabetical or hieroglyphic), but the other Egyptian Pyramids, built thousands of years later, were constructed with much sloppier design, some even having writings.

All this is consistent with the Vedic view (see [nersp.nerdc.ufl.edu/~ghi/vcchap.html](http://nersp.nerdc.ufl.edu/~ghi/vcchap.html)) of what happened after about 11,600 years ago, into the Bronze and Iron Ages and on through the present Industrial Age:

"... prior to the beginning of Kali-yuga ... all living beings were on a higher average level than they are at present, and advanced beings such as demigods and great sages regularly visited the earth. ... Once the Kali-yuga began, demigods and higher beings greatly curtailed communications with people on the earth, and the general sensory level of human beings also declined. ... due to the lack of feedback from higher sources and the natural cheating propensity of human beings, the traditions ... became more and more garbled ... the present stage of civilization was reached, in which old traditions are widely viewed as useless mythology, and people seek knowledge entirely through the use of their current, limited senses."

As Terence McKenna in his May 1993 OMNI magazine interview: "... For 10,000 years ... we've pursued an agenda of beasts and demons ... If history goes off endlessly into the future, it will be about scarcity, preservation of privilege, forced control of populations, the ever-more-sophisticated use of ideology to enchain and delude people. ...".

The "tooth-and-claw" humans became dominant, using the Boskop technology to build machines of war and dictatorial control,

but

the Boskop music and cultivation lived on for those humans wise enough to find and follow it. Shannon Dorey in "The master of

Speech" (Trafford 2002, 2005) said [ my insertions are set off by brackets ]:

"... According to Ogotemmel the seventh ancestor was the Master of Speech but the eighth ancestor [ Lebe ] was Speech itself. ...

Ogotemmel [ said: ]... "The first sounds of the smithy began to be heard. They penetrated into the depths of the earth and reached the seventh ancestor, whom men had killed ... the seventh ancestor ... took

his spirit form of a human trunk ending in a reptile ... he swam underground to the tomb of the old man [ eighth ancestor Lebe ] ... To the rhythm of the work of the smith he ... proceeded to swallow ... the body ... and gave new life to it. Then always in time to the same sounds, he expelled ... the transformed being ... its bones ... had [ been ] transformed ... into coloured stones ... The seventh ancestor ... organized the world ... He placed the stones one by one, beginning with one for the head, and with the eight principal stones, one for each ancestor, he marked the joints of the pelvis, the shoulders, the knees and the elbows ... Next came the stones of secondary importance designating the long bones, the vertebral column and the ribs. ...”

The number 9, the “rank of chieftainship”, was indicated by the stone placed ... in the position of the skull ...

The first stone or first ancestor ... stomach ...

The second ancestor or stone ... gizzard ...

The third ... heart ...

The fourth ... female millet ...

The fifth ... beans ...

The sixth .. crushed sorrel ...

The seventh ... liver ...

The eighth ... gall ...

... 640 covenant-stones ...

$$[ 640 = 256 + 128 + (128 + 128)$$

where

$$256 = Cl(8) \text{ contains } 248\text{-dimensional } E_8 = 120 + 128$$

where

the one 128 in  $E_8$  represents first-generation fermions.

Adding 128 produces ( 128, 128 ) pairs for second-generation fermions.

Adding (128 + 128 ) produces ( 128, 128, 128 ) triples for third-generation fermions ]

... had been thrown up by the seventh ...[ ancestor ]... to make the outline in the grave of Lebe ...[ that ]... cast ... the outline of the organization of the world ...

the arrangement of the .... eight principal stones ...[ was ]... so that the sum of the numbers ... was always 9, which was the rank of chieftan ...

[ Compare the graded structure of the Cl(8) Clifford algebra  
 $1 + 8 + 28 + 56 + 70 + 56 + 28 + 8 + 1$   
 in which there are 9 grades 0 through 8 ]

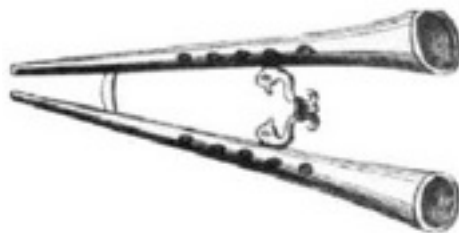
This Chinese hand



was used as a chart to show the 12 fundamental notes in Chinese music ...

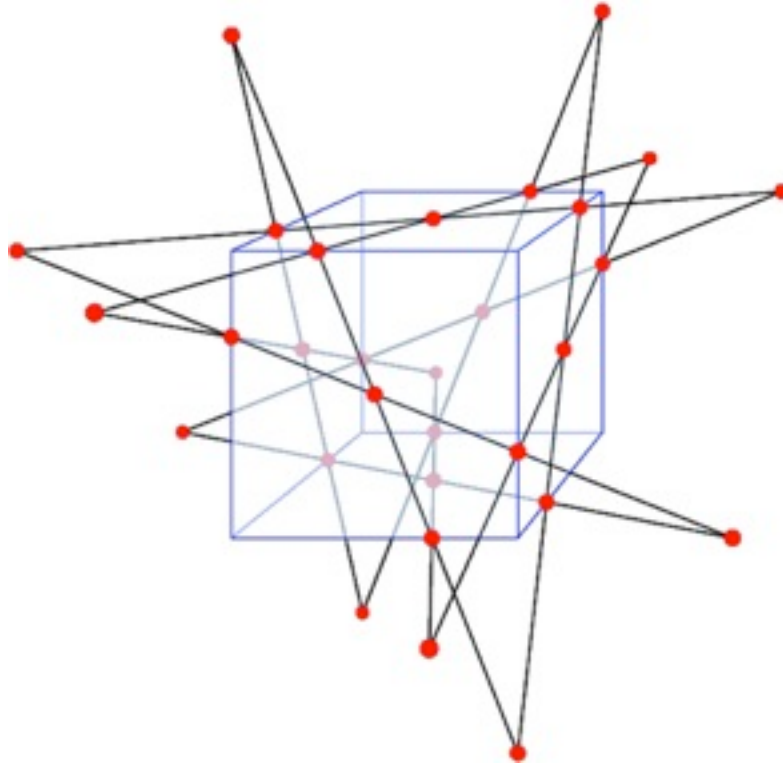
[ Note the pairings 1 and 8, 2 and 7, 3 and 6, 4 and 5 plus the sequence 9, 10, 11, 12 ]

... twelve tubes were divided into two groups of six ...[or, equivalently, into six pairs of flute tubes ]...

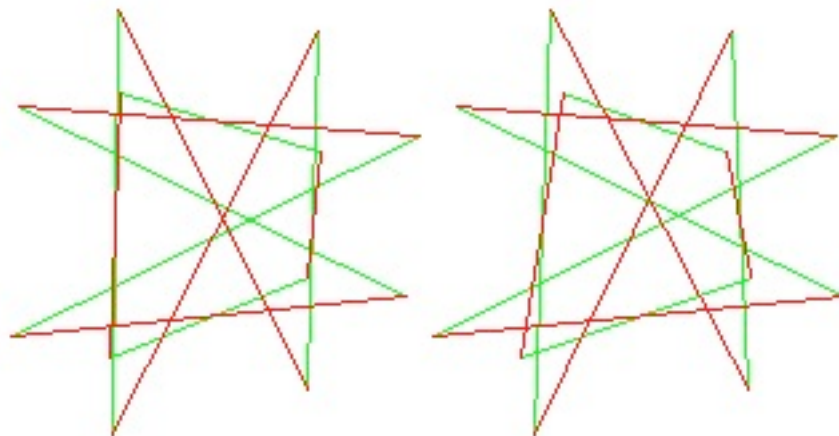


[ The 12 flute tubes, in 6 pairs, form the geometrical configuration of the Schlafli Double-6. With a lot of 3-dim lines projected down

to 2-dim images, it may be hard to see which crossings are real in 3-dim and which are just look that way in 2-dim, so here is an image modified from wiki commons that shows the crossings as red dots and shows a cube to help perspective. You can think of the 4 vertices of the Large Tetrahedron as being 4 alternate vertices of the cube:



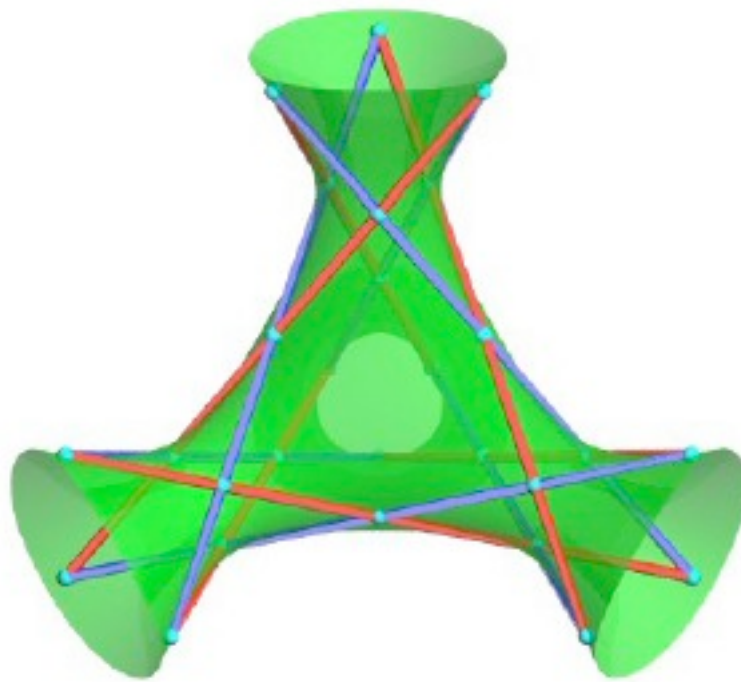
Crossings may be clearer in this stereo image



in which 6 of the Tetrahelix lines have been colored red to indicate their helicity being opposite to that of the 6 remaining as green.

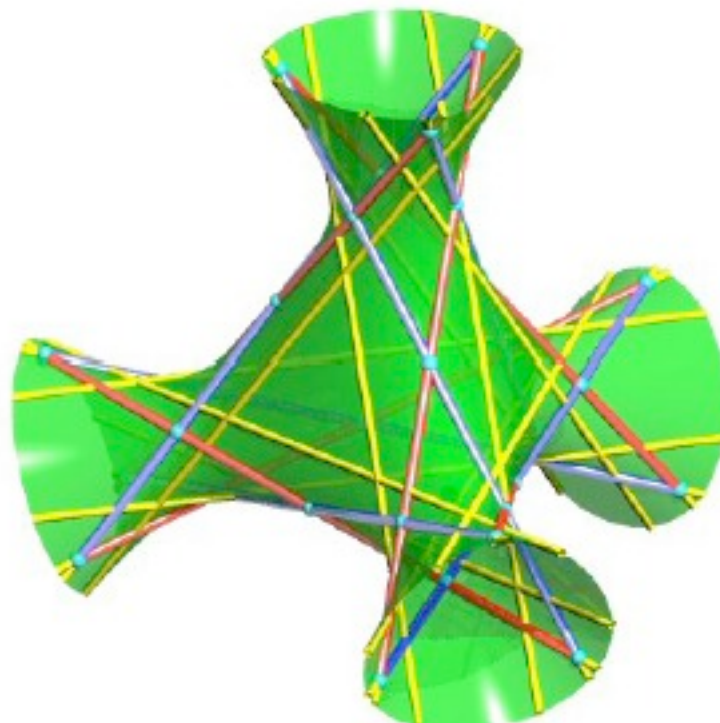
The Schläfli Double-6 has nice symmetry properties that may be useful in making physics models.

A mathcurve.com web site by Robert Ferreol and Alain Esculier says: "... Il existe une unique surface cubique lisse ... contenant les 12 droites du double-six ...



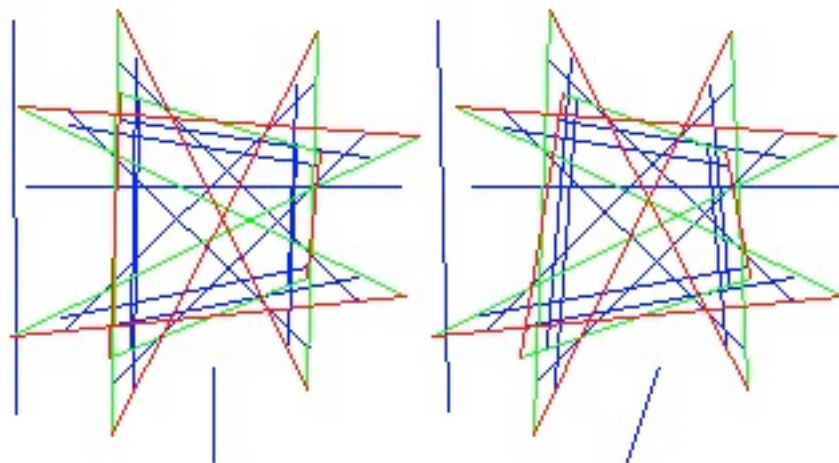
... Les 27 droites de cette surface sont les 12 droites du double-six

(en rouge et blue ...)



plus les 15 droites ... (en jaune) ...".

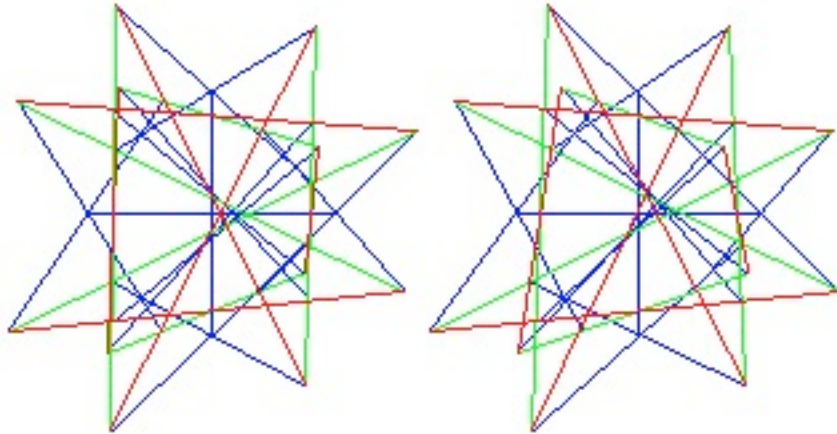
As they said, the 12 lines of the Double-6 are 12 of the 27 lines on a general cubic surface with the other  $27 - 12 = 15$  being



in which the 12 Double-6 lines are red and green and the other 15 are blue.

Since each of the  $12+15 = 27$  lines have 5 points of crossing, the configuration has  $27 \times 5 = 135$  points.

The symmetry group of the 27 line configuration is the Weyl group of  $E_6$  of order  $72 \times 6! = 51,840$  (see Coxeter, Math. Z. 200 (1988) 3-45). In case it might help in visualization, here



is a stereo image of the 27 line 45 point configuration that is dual to the 27 line 135 point configuration shown above.

Note that the cubic surface in 3-space shown above is known as a Del Pezzo surface related to  $E_6$  and 27 lines. The Del Pezzo relationship for  $E_7$  is to 56 lines ( $28+28$ ) and for  $E_8$  is to 240 lines (nearest neighbors of an  $E_8$  lattice). ]

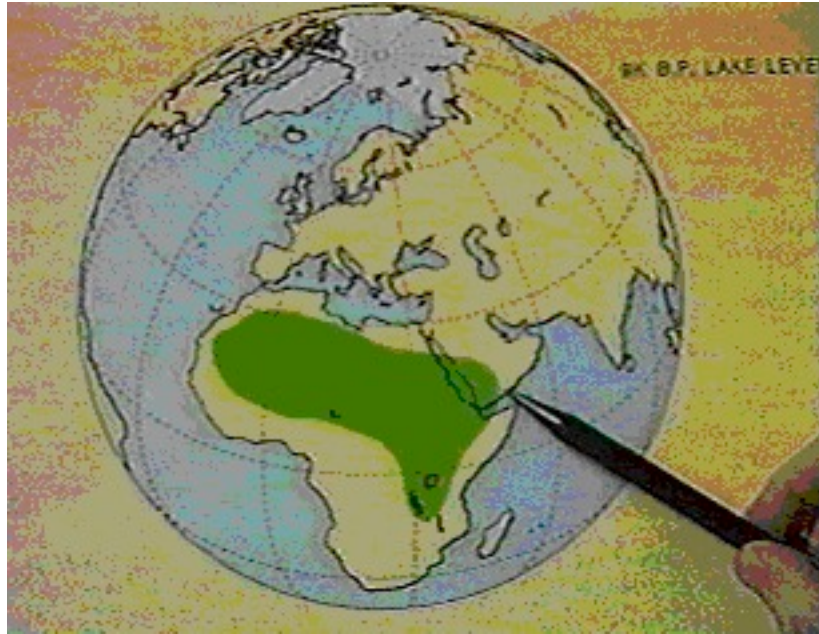
... Ogotemmeli ... describes the Master of Speech teaching the art of drum making. "... He coiled ... a kind of endless chain ... in a spiral of eighty turns ... forty [  $5 \times 8$  ] loops on each hand, making eighty [  $5 \times 16$  ] threads in all .... he spoke as he had done when teaching the art of weaving. But what he said was new. It ws the third Word, which he was revealing to men." ...

**Technology ... caused the grief and destruction that was said to have been typical of the Iron Age. ...[ It was ]... meant to help order and civilize the Earth but in reality ... unleashed disorder. ...".**

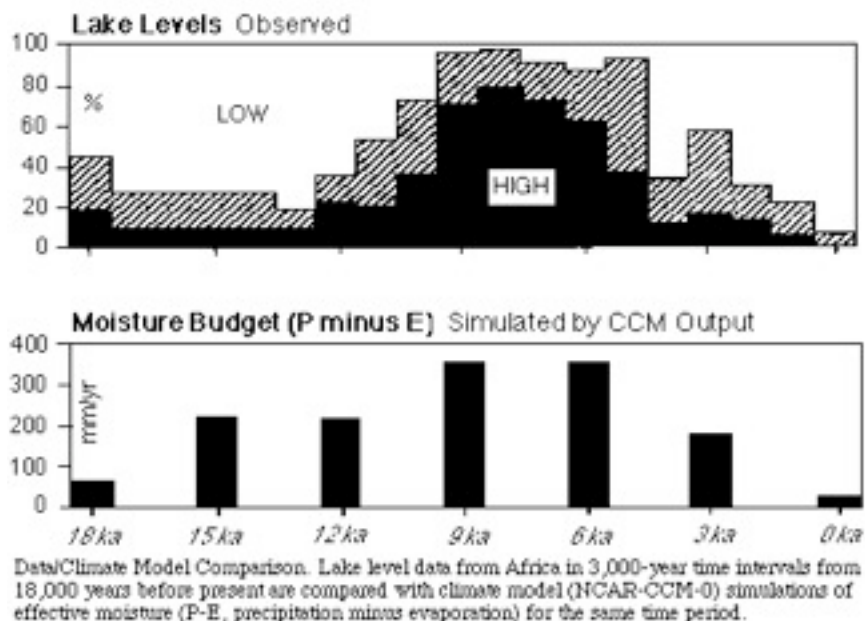
## The Past 10,000 years - From Boskop to Dogon

From 11,600 years ago to 9,000 years ago, Egyptian lakes were filling.

From 9,000 years ago to 6,000 years ago, the lakes were full as shown by paleoclimatologist John Kutzbach for about 9,000 years ago from the video *The Mystery of the Sphinx* (The Sphinx Project, 1993)



and by these graphs from [www.ncdc.noaa.gov/ogp/papers/winkler.html](http://www.ncdc.noaa.gov/ogp/papers/winkler.html)



During the period 11,600 years ago to about 6,000 years ago, the Biblical People from Eden were an integral part of the African / Egyptian / Ethiopian Community.

In 2006, Charles S. Finch III wrote "Nile Genesis: An Introduction to the Opus of Gerald Massey", saying: "... According to Massey ... the types (and archetypes) had been reconstituted in the heavens. To the ancient Kamites, the celestial and terrestrial worlds mirrored one another. ... The land of Kemit, 'the Black Land' - later called Aigyptos ('Egypt') by the Greeks - was, as Herodotus rightly observed, the gift of the Nile ...["



]... From two separate inner African lakes - Lake Tana in Ethiopia, source of the Blue Nile, and Lake Victoria in Uganda, source of the White Nile - two riverine arteries converged at modern Khartoum to form the mainstream Nile that ... over thousands of years created the

green, fertile Delta region of Egypt ... The ancient writers understood and wrote of this umbilical connection between inner Africa and Egypt but after the beginning of the Christian era, the realization and appreciation of this fundamental historical linkage faded, almost to be forgotten until the appearance, between 1881 and 1907, of the monumental writings of the incomparable auto-didact, Gerald Massey. In three massive two-volume works, *The Book of the Beginnings* (1881), *The Natural Genesis* (1883), and *Ancient Egypt* (1907), we witness a titanic attempt to extricate and repossess the veritable story of this Nile Valley kingdom from the neglect and obfuscation of the centuries. Massey, with nearly no formal education, became by sheer effort a man of startling erudition and his books provide an inexhaustible mine of information on the Nile genesis of early civilization. ... If there is a unifying theme in Massey's six-volume opus it is simply this:

**Africa was the primal source of the world's people, languages, myths, symbols, and religions and Egypt Africa's mouthpiece.**

In Massey's view, Egypt brought African genius to its highest and finest expression then proceeded to instruct the world in Africa's wisdom. ... Massey found independent verification of this view from his exhaustive studies of the myths, symbols, beliefs, and customs of many lands all over the world. In his eyes, metaphorically speaking, Inner Africa was the Mother, the Nile the Father, and Egypt the brilliant Son and Fulfiller. ... Massey proceeded to show the connection between the Egyptian astromythical types and all the important Old Testament patriarchs. ...

The latter years of Egypt's 18th dynasty (14th century BC) [ about 3,300 years ago, during the stressful times of the drying of the lakes ] witnessed unprecedented religious ferment as indicated by the so-called 'Amarna Heresy,' launched by Amenhotep IV, better known as Akhenaton.

This period of religious upheaval saw the patriarchal status quo represented by Amon-Ra shaken to its foundation by the upsurge of the Sethian solar deity Aton - the sole and exclusive god - championed first

by Queen Tiye, wife of Amenhotep III, then more vigorously by her son Akhenaton. Though solar, by virtue of his Sethian character, Aton represented the ancient Mother-and-Son religious system dating back to pre-dynastic times. In the end, the Atonian religion was overthrown and Amon-Ra restored, leading in the ensuing 120 years to one, possibly two, exodes out of Egypt by religious dissenters who had retained their allegiance to Mother-worship. Egyptians, though conscientious recorders of their own history, never mentioned a group or nation that could be remotely identified with the Hebrews of the Exodus. ...

Sigmund Freud ... clearly ... asserted that Moses must have been an Egyptian priest who took the part of the downtrodden in Egypt, led them into Sinai, taught them the worship of one god, and gave them their laws. The date of the Exodus remains a contentious issue though the weight of opinion favors the reign of Merneptah (1230 - 1215 BC) [ about 3,200 years ago, during the stressful times of the drying of the lakes ] as the time period for this seminal event. ...Massey forcefully set forth the argument that the Hebrews, originally the worshippers of the divine Mother and Son who later renounced them for the all-exclusive Father, brought their religion and language out of Africa, their original home. ...".

The [www.charlesfinch.com](http://www.charlesfinch.com) website said: "... However, the deep and venerable astromythic system of ancient Egypt, especially as related to the Piscean Age, did not die or disappear; it was preserved in what might seem to be an unlikely place - southeastern Mali among the Dogon.

The Dogon of Mali are among the most unusual, and fascinating, people of Africa. They live along the Bandiagara Cliffs of southeastern Mali, eking out an agricultural existence in the harsh scrub-land at the base of the Cliffs. They report that they originally came from the northeast, beginning their migrations into the Western Sudan 1,460 years ago (circa 545 AD). ... there are so many close similarities - amounting to clear identities - in their thought to that of ancient Egypt, it is impossible to look elsewhere other than the Nile Valley for their remoter origins.

In fact, the present author thinks that they undertook their migration out of the Nile Valley on the occasion of the closing of the last functioning Egyptian temple, the Temple of Isis on the island of Philae, by the Roman Emperor Justinian in 540 AD. ...

In the Dogon system, Amma is the Creator who, like Amon-Ra, caused creation to be set in motion when he 'opened his eyes.' The connection between the Dogon Amma and the Egyptian Amon is further enhanced when it is noted that amma (Dg.) means 'to hold firmly' or 'to keep in place' while amon (Eg.) means 'to make firm' or 'establish permanently.'

Moreover, there are four paired Primordial Nommos, eight in all, who correspond to the four paired Primal Neters of Egypt (8 in all), from which all that exists comes.

One of these Nommos is Ogo, the Fox [or Jackal/Smith ], who is the agent of all disorder (and also the turner of the earth's axis). Ogo is, therefore, the counterpart to the Egyptian Jackal who is Set/Anubis (in earlier times, Anubis was the son of Set). ...

Nommo Anagonno, the Twin of Ogo, personifies the seeds and growing plants and will be sacrificed - killed by Ogo as Osiris was killed by Set - then resurrected to bring back order into Amma's creation. Beyond a shadow of a doubt, this Nommo Anagonno is none other than Osiris himself. Nommo Anagonno ... is ... the Image of Man and was separated from his penis at his sacrifice which was swallowed by a fish; similarly, Osiris at the time of his death and dismemberment was separated from his penis which was swallowed by a fish. But the Dogon mythic imagery is yet more striking: Nommo Anagonno is the sacrificed victim who will be resurrected; he is tied to the kilena tree standing up ... then attached to two branches extending at right angles from the tree. Nommo Anagonno is thus the Dogon Crucified Savior. As if that weren't enough, the Dogon say that the sacrificed Nommo, in order to 'reorganize the world' must suffer greatly in the course of being crucified.

... astromythically, Jesus the Christ could only have been the re-manifested Osiris. ... What is more, Ogo, veritably the 'Master of Speech' and the 'Opener of the Way,' is none other than Wep-Wat/Anubis who (still) rules the pole.

... one finds in the Dogon world-system a more-or-less seamless the interdigitation of the current Polar astromythic archetype with the Zodiacal one; the Jackal and the Fish, cosmically speaking, conjoin in the Dogon system ...

Thus, if one really wants to study and understand the ethos of Piscean Age, along with that of the (polar) Jackal Age, it is to the Dogon system ... that one must refer. ...”.

## The Future

70,000 years ago the Toba Volcano killed almost all the human maternal mtDNA people. The survivors had to learn Cooperation to live.

30,000 years ago the Boskop Masters of Speech emerged and took Cooperation and Learning to a new high level.

10,000 years ago the Great Flood created shortages of land and food. Humans adopted Winner-Take-All Ruthless Competition with escalating War-Technology, and killed off the Cooperative Boskop.

2,000 years ago Jesus suggested that humans should return to Cooperative behaviour, but the reward Jesus offered was in the AfterLife and not as attractive as Earthly Riches, and Jesus was killed.

700 years ago Ramon Llull rediscovered much of the Boskopian Wisdom and suggested that it showed that all humans (Jews, Christians, Muslims, etc) were fundamentally the same and therefore should be Cooperative, but he offered no reward of Earthly Riches, and he too was killed.

Now humans are approaching a singularity due to exponential increase in population and technology, and are facing a fork in the road to their future;

Terence McKenna in a May 1993 OMNI magazine interview: "...  
MCKENNA: ... If history goes off endlessly [as it has been doing the past 11,600 years or so] into the future, it will be about scarcity, preservation of privilege, forced control of populations, the ever-more-sophisticated use of ideology to enchain and delude people.

We are at the breakpoint.

It's like when a woman comes to term. At a certain point, if the child is not severed from the mother and launched into its own separate existence, toxemia will set in and create a huge medical crisis.

The mushrooms said clearly, "When a species prepares to depart for the stars, the planet will be shaken to its core."

All evolution has pushed for this moment, and there is no going back.

What lies ahead is a dimension of such freedom and transcendence, that once in place, the idea of returning to the womb will be preposterous. ...

Something in an unseen dimension is acting as an attractor for our forward movement in understanding. ... It's a point in the future that affects us in the present. ... everything is pushed by the past into the future, by the necessity of causality, is wrong. There are actual attractors ahead of us in time -- like the gravitational field of a planet. Once you fall under an attractor's influence, your trajectory is diverted. ... I think [that the attractor has a kind of intelligence]...

We will live in the imagination.

We will quickly become unrecognizable to our former selves because we're now defined by our limitations: the laws of gravity; the need to eat, excrete, and make money.

We have the will to expand infinitely into pleasure, caring, attention, and connectedness.

If nothing more -- and it's a lot more -- it's permission to hope. ...".