



“Meaning of the Crossing in Gorham’s Cave at Gibraltar.” By Antonio Cassella

ABSTRACT. A Crossing traced before 39,000 years ago by the extinct “Homo neanderthalensis” points at the Values hidden in the **alliance** (or the “logos heuristics”¹) of **autistic memory** with **artistic imagination**. Exploring the **values** behind nature’s **nature** might **help** autistic individuals and **save** the innovative descendants of “Homo sapiens” from extinction in the 21st century.²

1. INTRODUCTION



This letter **explores** the **meaning** of the Crossing found on the floor of Gorham’s Cave in Gibraltar in 2012 (Figure 1). Gorham’s **crossing**, traced by a Neanderthal earlier than 37,000 BCE (Before the Common Era) (Rodríguez-Vidal et al, 2014), reflects a vital **wisdom**. I mean the Values set in the **social union** (the **3rd attention**, or the “logos heuristics”) of the **perfect repetition of the known** provided by **classical computing** (the **1st attention**) with the **less-than-perfect creativity** of **quantum computing** (the **2nd attention**).

As **Giordano Bruno** implied in the 16th century CE (Common Era), **finite memory** (1) may **cross infinite imagination** (2) through the **emptiness** (3, or the Third Attention) in which all **grows**.

Gorham’s Crossing agrees with the stone-knapping techniques of the Middle Paleolithic in that “Homo neanderthalensis” (HN) was **ruled** by the Distributed Hierarchy (3) that **renovates natural systems**. A Neanderthal **sage** also used her particular Will and Third Point to share the universal **vision** of the 3rd Attention with any future “Homo sapiens” (HS) willing to **win with** others.

By **reconciling** with others the **classical** view of reality (1 or 0) *spared in autisms* with the **quantum** view (1 and 0) *lost forever in autistics children* (Cassella, 2018a, 2018b, 2018c, 2018d, 2019), our descendants would not lose track of the **social use** of **quantum neural computing**. Besides, they would become sensitive to **deeper interpretations** of Sacred Texts and a modest life. By rescuing the **sobriety** and Wisdom of the few HN that preceded our greedy expansion and feasting, our HS descendants would **understand nature**, their **mind**, and their **smile**:

DEISM (1, OR THE **PERFECT NATURE** OF GOD), **THEISM** (2, OR THE **HOPE** ASCRIBED TO PROVIDENCE), OR **BOTH** (3) IF EVERYONE **WILL DO HER BEST** THROUGH THE THIRD POINT THAT **TRANSFORMS** A **MALICIOUS FATHER** INTO A TRUE **MOTHER**?

¹ In Antonio Cassella’s printed writings and in any “Logos heuristics Newsletter” published 6 times per year by Research Autism LLC:

- The **first attention** (1), **perfect memory**, or the **classical computing** (1 or 0) *spared in autistics* and in actual information-processing machines that deal only with the **truth** they perceive and know, is **underlined**;
- the **second attention** (2), the **quantum neural computing** (1 and 0) *wronged in autism*, or our **ability to go with hope** into a better future—while **facing doubts, sins, problems, and paradoxes**—goes in **bold**; and
- the **third attention** (3), the **philosopher’s stone**, or our **capacity for transforming** our **hopes** by **solving** a **problem** in order **to truly return** to a **better future for all** (*wronged in schizophrenics who perceive and remember the lies they imagine*), **combines** **underlining and bold** or is Capitalized irregularly.

² The newsletters about altruistic applications of the Third Attention are donated at researchautism.com, a website protected by GoDaddy.com. This issue is included in the Creative Commons License as (example of citation): Cassella, A. (2021). Meaning of the Crossing in Gorham’s Cave at Gibraltar. *Logos heuristics Newsletter*, 3(1), 1-10.



2. BACKGROUND: WHAT WE KNOW ABOUT HOMO NEANDERTHALENSIS



Figure 2 shows the vast roaming of HN in the European steppe while hunting herbivores between 350,000 and 30,000 BCE, the time they vanished. Among the reasons for Neanderthals' demise stand genetic drift, climate change, the super-eruptions in Toba (Indonesia, 74,000 BCE) and Campania (Italy, 37,000 BCE), bad luck, or conflict with HS hunter-gatherers loaded with **malice** and better weapons.

The facts that the Levallois-Mousterian technique of making tools from flint, a feat that is associated to HN, was present both in Europe and North Africa, that Neanderthals had some capability for coastal seafaring, and that sea level was lower in 37,000 BCE suggest that a Sibyl or Shaman among HN in Gibraltar reached North Africa and the Middle East. In any case, Neanderthals arrived with all certainty at the eastern shores of the Mediterranean Sea by Asian routes.

The African route, however, might have been the only one closely viable after the disruption caused by the Campanian super-eruption of 39,000 years ago. Actually, the poisonous cloud and ash deposition from the Phlegrean Fields (to the west of the Italian city of Naples, below the area of Pozzuoli in which once lived the old, immortal, and Sage Cuman Sibyl) passed north of the Caspian Sea, while filling the Eastern Mediterranean.

Gibbons (2017, 2020) picked up the fact that, before 100,000 years ago, the mating of a male HN with a female HS resulted in the prevalence of her mitochondrial DNA among Neanderthals. Similarly, the mating later of a female HN with a male HS gave a modern Y-sex-chromosome to Neanderthals' nuclear DNA. That transfer of genes did not save Neanderthals from extinction. There are no remains of Neanderthal hunter-gatherers in North Africa, nor is there any evidence that HN used the bow and arrows to hunt dangerous herbivores from a safer distance or the cover of bushes. Gibbons (2018) also picked up the fact that the DNA of Northern Africans is related to the DNA of Middle Easterners and Africans south of the Sahara Desert.

Possibly, North Africans and Neanderthals in Europe knew about the bow and arrows used in South Africa 67,000 years ago. However, the contribution of the latter to Progress might be related more to Wisdom and Values than to **creating** or copying speedier, safer, and more lethal weapons. Still, the bare fact that most humans today have a fraction of Neanderthal genes does not suffice to save our grandchildren from extinction before the turn of the 21st century, under the impact of: global warming, the proliferation of weapons of mass destruction (WMD), the failure of herd immunity against changing viruses, and the socio-cognitive degeneration of self-absorbed tyrants and their supporters.

We could teach the young, however, how to read the Works of Nature and of Sages among HN and HS. The legend of the book *Emerald Tablet* welcomed by the Egyptian god Thoth and of the philosopher's stone might have started in Western Europe from a Neanderthal Sibyl-Shaman.

THE JOURNEY OF WISDOM AND VALUES FROM WEST TO EAST

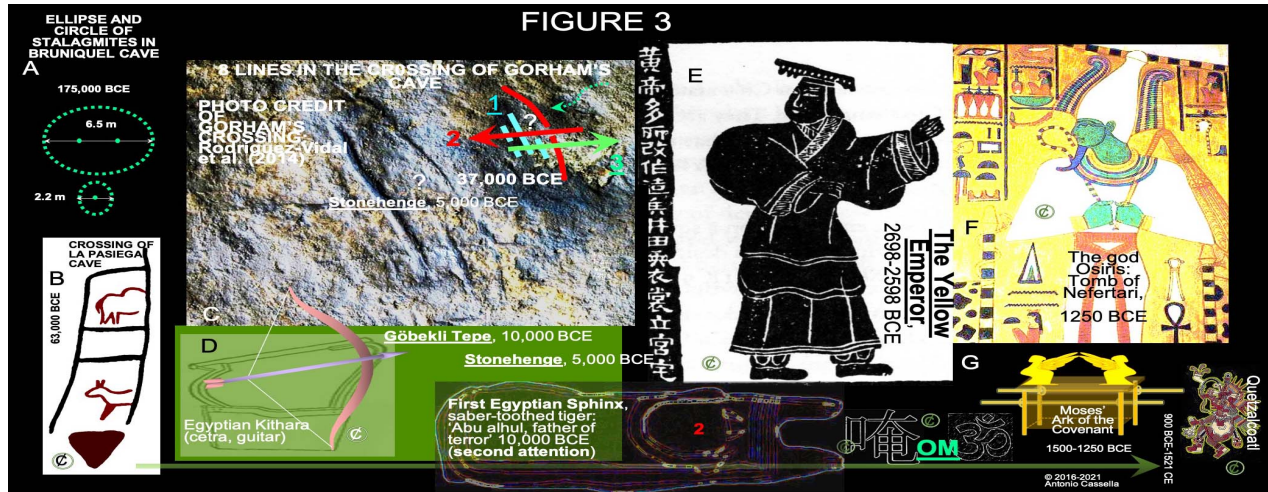
Arrowheads with a background of 50,000 years and human remains found in Morocco, Algeria, Tunisia, and the Sahara support the hypothesis that North Africans shared in the migrations of Homo sapiens out of Africa into the remainder of the world (Balter, 2011). Some North Africans may have also helped the transfer into pre-pharaonic Egypt of the Wisdom sorted by Neanderthals in Europe.



The equilibrium between uranium-234 and thorium-230 isotopes backs up the age of the ellipse and circle built by Neanderthals with stalagmites in the Bruniquel Cave (France) previous to 175,000 BCE (Jaubert et al., 2016) and the ladder they painted in La Pasiega Cave (Spain) before 63,000 BCE (Hoffman et al., 2018). Further, radiocarbon-14 set the age of the Crossing in Gorham's Cave at Gibraltar before 39,000 years ago (Rodríguez-Vidal et al., 2014).

If some HN Sibyl found the **roots** of divine, natural, and human cognition (as suggested by combining the research of Hoffman et al., Jaubert et al., and Rodríguez-Vidal et al.), a hypothesis can be made that early Progress among HS (e.g., the **circles** of Göbekli Tepe and Stonehenge) in Europe, the Middle East, India, China, and Mesoamerica was due to Values found by Neanderthals.

Figure 3 summarizes graphically such a counter-intuitive proposition.



The circles of Göbekli Tepe, the first Giza Sphinx, and the rise of knowledge kept in old institutions (for example, the “House of Thoth” in Pharaonic Egypt and philosophy in ancient China and India) and in Sacred Texts (e.g., the oral “Pentateuch” held by Moses) might have been influenced by HN.

The musical abilities implied by the bone flute found in Divjje Babe I Cave (Turk et al., 2018) and the capacity for **detecting parallelism** and for **crossing parallel planes** in a variety of Mousterian **tools** (Peresani et al., 2014) imply that Sages among HN were aware of the **roots** of the Tree of Life (which remain ignored by the majority of modern HS). Although science has proved the reality of the graceful inroads of HN, it has not provided yet a **reading** of the **fundamentals** of divinity, natural systems, and the social mind, exposed nonetheless in caves occupied by HN more than 40,000 years ago.

In the noise caused by technological growth, an easier and longer life, and wild proliferation, we ignore the Vision and Values **sown** by HN in our Sacred Texts, Philosophy, Works of Art, and in the **rhythm and melody** of Musical Pieces (e.g., **Gioachino Rossini**’s “The barber of Seville”), or in the **uncertain promises** of eventual **harmony**. **Shakespeare**’s *Hamlet* and the Dodecaphonic Music of **Ennio Morricone** should not be cut in the first act. Still, dangerous, maddening, and inhuman inroads (as the ones of **Adolf Hitler** and **Reinhard Heydrich**) should.

Understanding the meaning of the Creative Displays and Values of HN might **save** the young from cognitive involution and the deadly effects of global warming, changing viruses, social strife, and the expansion in a small world of people, cities, manufacture, and weapons of mass destruction (WMD).

3. DISCUSSION: THE ROOTS OF KNOWLEDGE

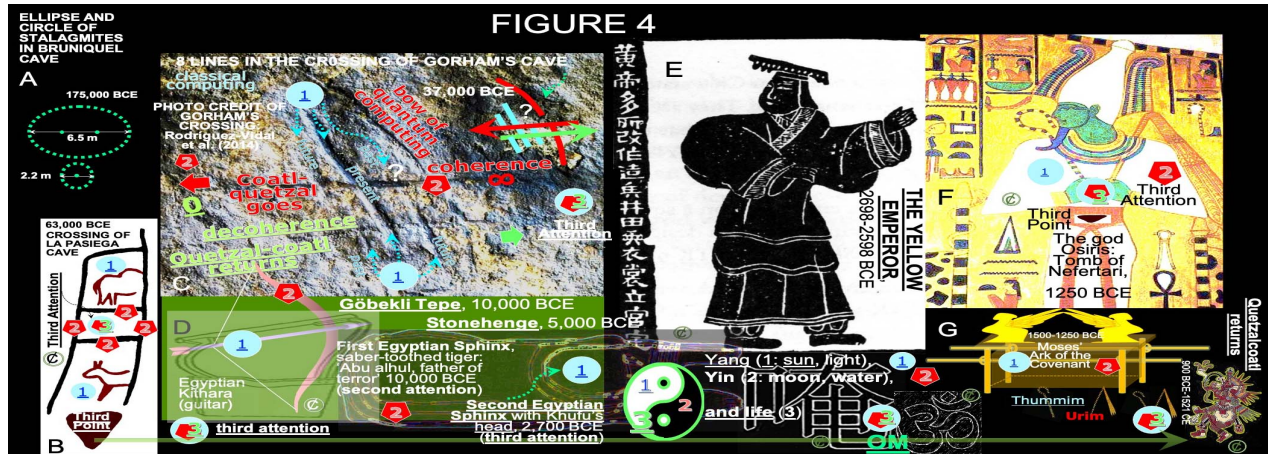
Part A of Figures 3 and 4—related to the construction of an ellipse and a circle in Bruniquel Cave at least 177,000 years ago (Jaubert et al., 2016)—suggests that HN knew what those shapes meant.

An inclined conical section, in the manner of any ellipse, may become a horizontal circle under the tip of a stalagmite, while **plurality** (the two foci of the ellipse) **becomes** the **nothingness** at the center of a circle. Perhaps HN knew about the universal **union** of **finiteness**, **infinity**, and **nothingness**:



- In any circle, for example, an **infinite** number (**quantum computing**) of **finite and equal radii** (**classical computing**) **share the same space at the same time** in the **nothingness (crossing)** located at its unique **center**.

It would seem that Neanderthals knew, more than 177,000 years ago, that **infinity** and **void** recreate natural systems (See Cassella, 2019; or examine the page “The Cosmos” in “researchautism.com”). We know that **entanglement** and **superposition** are real; but we ignore the role of **dark energy** and **dark matter** in the universe and the anti-universe, or the role of **paradox** and **irony** in any language. The ladder drawn by Neanderthals at least 65,000 years ago (Hoffman et al., 2018) in the Spanish cave of La Pasiega (left lower corner of Figure 4, Part B) shows that **infinity** and **nothingness** in quantum information processing can be separated conceptually.



The ladder depicted at left in Figure 4 above shows **parallelism (2)** between its **left and right side**; also, between the **two horizontal steps** in its center. That **parallelism** makes the **infinite speed of infinity (2)**: Truly, the hand that drew the ladder echoes a mind that **lived simultaneously (2)** in separate worlds (the two pairs of parallel lines) before **changing (3)** them (1).

Here comes the nerve of **quantum neural computing!** Unlike autistics today, more than 65 thousand years ago, HN could **think simultaneously (2)** about: “**in front of**” (1, or the half deer at the bottom of the ladder), “**behind**” (1, or the half bison at the top of the ladder), “**left**” (the left side of the ladder), “**right**” (the right side of the ladder), “**top**” (the top of the ladder), “**bottom**” (the bottom of the ladder), “**open**” (again, the bottom of the ladder), and “**closed**” (again, the top of the ladder).

Beyond the **divergence** explored by **infinity (2)**, the four **crossings** of the two pairs of parallel lines suggest that **nothingness** in them may lead to the **convergence** of the 3rd Attention (3), or the rectangle in the ladder. That **rectangle** implies the **unity** spared in autism (1), the **infinity-coherence (2)** hurt in that illness, and the **nothingness-decoherence (3)** ruined in madness. The **smaller pharaonic head (1)** of the 2nd Giza’s **Sphinx** in the 27th century BCE exemplifies the **reality** (forgotten at present) about three layers of attention (1, 2, 3) in Divinity, Nature, and the Social Mind.

The **mind** of the **sibyl** who **drew** the ladder of La Pasiega Cave went beyond the **invariant memory** that I have associated since 1997 to the larger **cerebral cortex** of most autistics (Cassella, 2018b): Only a **social** mind could **dream** or **think** for the first time of a **circle** or a **ladder**.

The manufacturing of **ords** and **nets** (Hardy et al., 2020) with multiple **intersections** proves that HN was aware of the **power** of **simultaneity** in **quantum computing** when **infinity** feeds **nothingness**, and **coherence** feeds **decoherence**.

In the 17th century CE (Common Era), the book *Emerald Tablet* helped Sir Isaac Newton **find** that “**being up and down at once** in alchemy” would unite **infinity** (∞) to **nothingness (0)**, or an **integral** to its **derivative** within the Fundamental Theorem of Calculus (FTC). In the FTC, the **fringe** ($2\pi r$) of a circle (in which “r” is the radius) is the derivative of its **area** (πr^2); and a **philosopher’s stone** launched on a pond will cause **circular waves** embedded in **simultaneity**.



Today, our ability to embrace **simultaneity** and **pronouns** can be associated to the **infinity** that autistics do not comprehend. Thus, we may roam unwittingly in a finite time over an ellipse that inscribes an **infinite number** of rectangles and over a circle that inscribes an **infinite number** of squares. Does that feat make a **cruel edge** over others or it leads men- and women-of-knowledge to eat **frugally** Spartan black broth while seeking the Progress (**3**) of all creatures?

Neanderthals that mixed with Denisovans (another extinct human species) while going East were **more** than **apex predators**. Their sobriety banned their proliferation and the over-exploitation of their world. Unlike us, their behavior can be linked to the crossing of the first with the **second** attention, within the Vision that introduces the 3rd Attention. Beyond vision, the rounded triangle pictured in La Pasiega Cave (lower left) suggests that a wise Neanderthal reached also the Will (in seizing her Third Point of cognition) to share the roots of Wisdom with future “Homo insipiens”: Us!

Those roots—echoed in the logos heuristics—lie in the crossing found on the floor of Gorham’s Cave.

3.1. THE THIRD POINT AND THE PRINCIPLES OF THE LOGOS HEURISTICS

In Part C of Figure 4, the Crossing of Gorham’s Cave confirms the difference between the **infinity** (red) impaired in autism and the nothingness (green) impaired in schizophrenia. **Infinity** relates to the **going journey** of the Mesoamerican plumed-serpent Quetzalcoatl by **pulling at once** the sanity of our autistic side and the madness of our schizophrenic side (for example, the two extremes of a bow or the opposite anchors that impart **tension** to the strings of the kithara-cetra shown in Part D).³

The **tension** created by our capacity for **thinking** of opposite or unrelated situations **simultaneously** (the case of any **problem**) is handled by our cerebellar microcomplexes through **quantum coherence** (**2**) or LTP (Long-Term Potentiation). However, no person can **embrace** forever the **extreme divergence** protected by the **infinite** speed of **quantum entanglement**. Hence, we must look for the nothingness by which two or more objects share the same space at the same time (**0**). Only nothingness can show us the outlet door into a new shared world, **convergence** (**3**), **LTD** (cerebellar Long-Term Depression), or the superposition that schizophrenics cannot find.

If LTP (∞) is followed by a **choice** in which we win with others or amuse them, then, **quantum decoherence** (through [**0**], or **LTD**) occurs in selected Purkinje cells of our **cerebellar microcomplexes**; and a **re-adjusted mold**, with a **paradoxical smile**, is **returned** by our brainstem into our cerebral cortex. (You may read “the human brain” in researchautism.com.) The **LTD** confirmed by our brainstem helps us leave behind both our autistic and our schizophrenic facets.

Gorham’s crossing suggests two doors if we try to benefit the self and the other:

- a) the **infinity-coherence** (∞) that *autistics cannot open* (the upper horizontal line in Part C), the 2nd attention, or the **going journey of Quetzalcoatl** with the **Morning Star**; and
- b), the **nothingness-decoherence** door (**0**) that *schizophrenics cannot open* (the lower horizontal line in Part C), the 3rd Attention, or **Quetzalcoatl’s return** with the **Evening Star**.

In Gorham’s scheme (Part C), both **coherence** (in red) and **decoherence** (in green) of **quantum computing** are crossed by four blue lines of classical computing (the 5th line, representing the door to **coherence** [∞] in the past, has not been found yet).

The continuity of the self through past, present, and future supports any sequence in the mental spacetime of classical meta-representation.

No nonhuman animal has achieved yet the mental capacity for classical meta-representation, which relates known concepts of the past self with known concepts of the present or the future self.

The four blue lines in Part C of Figure 4 indicate that Neanderthals had picked this fact up, although there are elephant matriarchs capable of leading their herd to a distant watering hole.

³ Although 1% of us may incur autism and 1% schizophrenia, we all have an autistic side (the 1st attention, classical computing, or memory in our cerebral cortex about what was, is, and will be) opposed to a schizophrenic side (in our cerebellar cortex about what never was, is not, and cannot be).

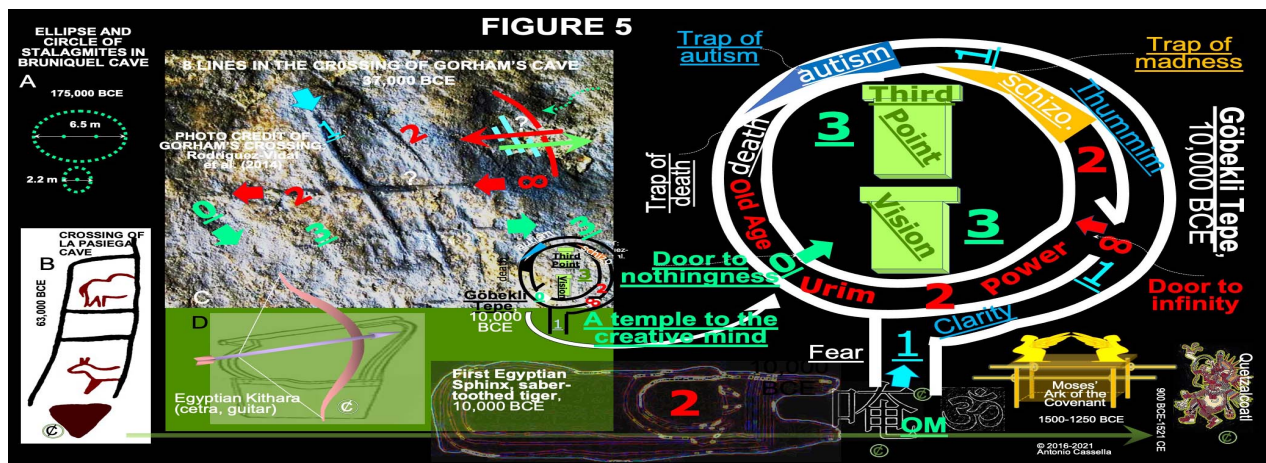


In the late 90s (Cassella, 1997, 2000, 2002), I determined that high-functioning autistics could meta-represent by linking known conceptual sequences in spacetime (e.g., the “Proper-Self” test; Povinelli et al., 1996), within the 5th stage of the classical computing that Piaget (1983) linked to 7-year-olds.

Beyond the excellent memory of my high-functioning autistic teens, though, only my *nonautistic* subjects dealt well with both “Proper Self” and theory-of-mind tasks (“false-belief test” in Baron-Cohen et al. [1985]), a fact missed by Piaget. (Piaget missed quantum meta-representation [and quantum computing as well] because his samples contained only normal, nonautistic children).

Gorham’s crossing shows that HN had detected more than 39,000 years ago the capacity to cross conceptually the hyperspace (Caramazza, 1994) of quantum computing (in the red and green lines) with the spacetime of classical computing (in the 4 blue lines of Part C). Gorham’s crossing suggests also the reality of the door to nothingness (0), which allows us to leave coherence (∞ , 2, red) behind in grasping the decoherence (0, 3, green) that releases a musical sound.

- The reality of the door to the infinite (∞) in quantum coherence makes the principle of Ubiquity in the logos heuristics (or entanglement in quantum physics) *gone awry in autism*, whereas the reality of the door (0) to nothingness and quantum decoherence validates the principle of Coincidence (or superposition) *impaired in schizophrenics who tickle themselves*.



circles of Göbekli Tepe (10,000 BCE) in Turkey show the *natural union* of finiteness with infinity/Ubiquity through nothingness/Coincidence; they surpass the quantum computing (2) exalted at the same time by the saber teeth of Giza’s first Sphinx (Cassella, 2018a). Perhaps the circular maze of Göbekli Tepe (right of Figure 5) stands for a quantum jump showing:

- the trap of autism for whoever misses the door to infinity (∞ , into 2),
- the trap of madness for whoever misuses the power of infinity, and
- the trap of the desire to rest for whoever misses the door to the void (0 into 3).

The denial of Ubiquity leads to the Locality by which nothing surpasses the finite speed of light, whereas the denial of Coincidence leads to Impenetrability (or Pauli’s exclusion principle). Pretend Play in two-year-olds joins the previous four principles, without the chance that the pretending children remain trapped in the labyrinth (Göbekli Tepe) in which autism meddles with schizophrenia.

3.2 THE YELLOW EMPEROR, NEFERTARI, RAMSES II, MOSES, AND QUETZALCOATL

As Part E of Figure 6 stresses, quantum computing may support the selfish needs of the self and of authoritarian leaders; or seek the alliance of the self with the other. The freedom to disown the devil was recognized by the Yellow Emperor, by artists as Shakespeare, by prophets like Moses, by philosophers as Laozi and Heraclitus, and by whoever wins over temptations.

The alliance with the other touches the heart of Quetzalcoatl when that heroic figure ceases to pay attention to the devil and returns, in deciding to tickle the companions left behind. (*I do not include*

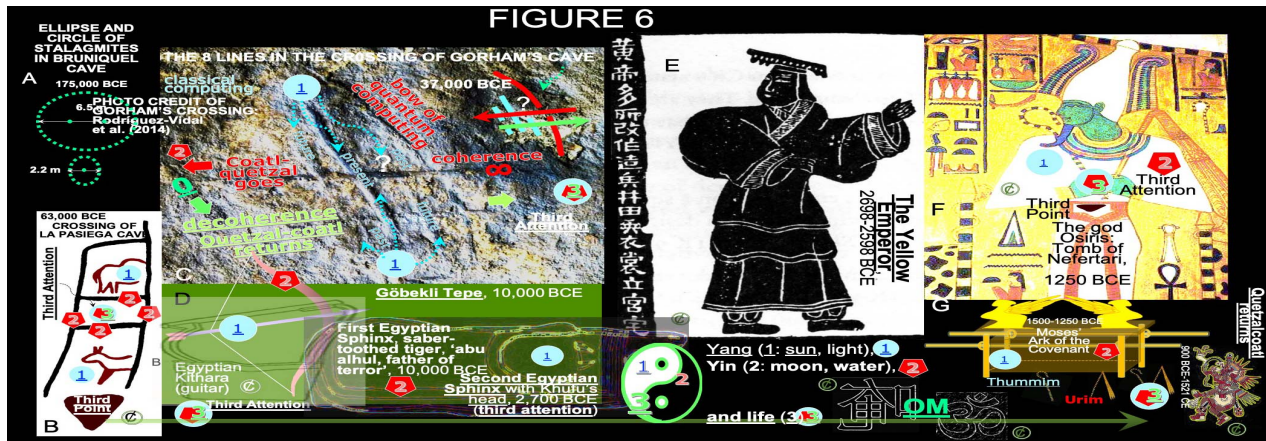


in the 3rd Attention returns that favor an isolated self, the pathological case of any **tyrant** adverse to **democracy**.)

Thus, although Gorham's crossing resembles a bow and arrows, the HN Sage who drew it left open a **malicious** meaning related to killing others (2) and a **generous** meaning that covered **altruistic purposes** (3). One example of the last option is favoring musical ends, as suggested by the **kithara** (cetra-guitar) in Part D of Figure 6 and by Turk et al. (2018).

The Ionian-Greek philosopher Heraclitus wrote in the 6th century BCE (translated from Cappelletti, 1969), "They do not **apprehend how** it rejoins itself after being **split: Harmony** between opposite extremes, as in the **bow** and the **lyre**." In that fragment (# 51), Heraclitus points at the **tension** (2) that **destroys** (e.g., in the **bow** that killed Achilles) or **amuses** others (i.e., through musical notes).

In the same century, the Chinese Laozi recognized the difference between **sterile rigidity** and **creative flexibility**, or the **classical yang** (1) and the **quantum yin** (2). The Yellow Emperor and Sages in Vedic India had appreciated also the disparity between **deceiving** (2) others and **helping** (3) others when we **cross quantum** with **classical** computing. Two examples are the **circle yin-yang** and the **Dharma-OM**, which **involve** the three modalities of information processing (1, 2, and 3).



The notion that the **power** of quantum computing can be used to erase **infinity** in others or to **help** them **open the door of nothingness** did not pass unheeded by Queen Nefertari, the main spouse to the Egyptian Pharaoh Ramses II (Part F of Figure 6). As with Moses when he was a prince of Egypt, Nefertari appreciated the Wisdom kept in the "House of Thoth" (and in the future *Emerald Tablet*).

Even if Nefertari did not reach her Third Point, exalted by HN at the bottom of Part B in Figure 6, she was aware that Osiris **did more** than exploit **classical computing** and **obedience to authority** (the **crook**) in **commanding the army** (the **crook**, the **flag**, and the **boot** in the upper right of Part F). A good pharaoh would **cross classical** (the **crook**) with **quantum** (the **flail**) computing in fostering **research** (upper left in Part F) and **funerary rites** (upper side); in supporting the **family** (lower side), **music** (the **diapason** under Osiris), and **medicine** (the two serpents in the bottom of Part F). (As with making drugs from the **poison** of a snake, the **best use** of a drug cannot marry too little or too much.)

Since Ramses II **built** temples, cities, roads, canals (central left in Part F), and gigantic statues of himself, however, we can hypothesize that the meaning of **uniplurality** (the open triangle under the right arm of Osiris) and of the Cross of Life (the **Ankh** below the diapason) was forgotten in time by both the **rulers of Egypt and their people**. The secrets of Giza's pyramids built by Dynasty IV (Cassella, 2018a) and of the **yang-yin**—or the **dharma-OM** (Wisdom) **symbol**—remain hidden today to billion **people** and their **leaders**. The same apathy did not pervade **Moses**—the mythical Prophet-Leader who copied the **message** drawn on the floor of Gorham's Cave in a different yet equivalent Cave or Skull: The **Ark of the Covenant** (Part G of Figure 6).

Moses placed in the Ark of the Covenant the ephod of his brother Aaron, on which two objects were sewed at the level of the **heart**: The crystals **Thummim** and **Urim**. The two precious stones make also the two staffs **Hoivalim** and **No'am** of Zechariah; the classical **Tonal** and the **Nagual** related to the



going and returning Quetzalcoatl among the Olmec, Maya, and Aztec Sages; the yang and the yin valued by Laozi; and the Dharma-OM symbol cherished by Indian religions and philosophies.

Moses' 10 Commandments are very necessary and very insufficient! Luckily, Mormons value the idea that "The place where God resides is a great Urim and Thummim" (Doctrine and Covenants, 130: 6-11). Indeed, Joseph Smith (the founder of the "Church of Jesus Christ of the Latter-Day Saints") used in the 19th century the Thummim and Urim crystals (given to him by the Angel Moroni) to translate the Book of Mormon. That said, Bruniquel, La Pasiega, Gorham, Göbekli Tepe, the Ark of the Covenant, and the Book of Mormon reflect all the fluid union (3) of the two forces (the 1st and the 2nd attention) behind Progress.

HN more than 1770 centuries ago, hunter-gatherers HS 120, Huangdi 47, Moses 35, the Vedas 35, Quetzalcoatl 29, and Joseph Smith just 2 centuries ago caught the roots of the power-OM (e.g., in the three syllables "A-U-M"). Such is the crossing (0, 3) of classical (1, or the stone Thummim) and quantum (∞, 2, or the stone Urim) computing in the Trimurti of Vishnu, Shiva, and Brahma.

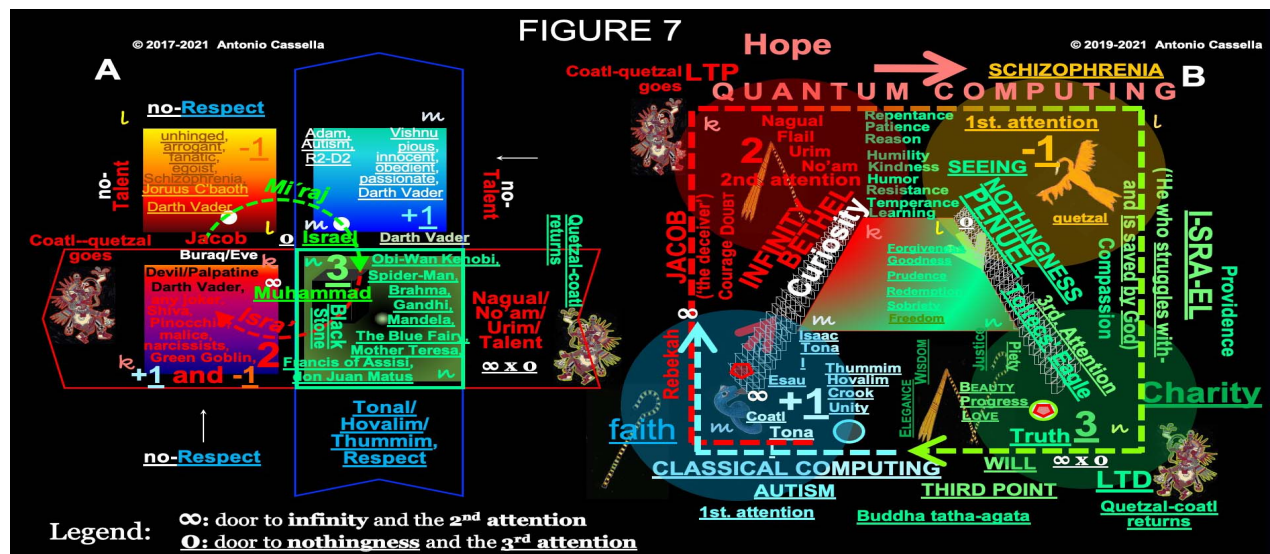
I will echo those roots in the gone-and-come (Tathā-ā-gatha) Buddha when he warned us, before dying, that each person has to save himself or herself (through his or her Third Point). After the usual "A" and the acceptance of the going ("U"), salvation ("M") blesses our return.

"AUM": Mouth open; half-way closed; and closed with a vital hum. Thus, if Shiva ("U"/"2") destroys what Vishnu ("A"/"1") sees, Brahma ("M"/"3") re-creates it. The final hum in the "AUM" voicing reflects the Buddhist sunyata, the philosopher's stone, the Distributed Hierarchy, nature's nature, and the Values of Neanderthals and of the Cuman Sibyl that once lived over the Phlegrean Fields.

3.3. VALUES, DISTRIBUTED HIERARCHY, AND NATURE'S NATURE

Figure 7 shows the two ways I chose to deal with values. In Part A, the "n" lower right quadrant crosses the respect of the known that animates our cerebral cortex with the talent that seeks new alternatives in our cerebellar microcomplexes. Quadrant "n" makes the fairness and compassion of Distributed Hierarchy—as in Spider-Man, Francis of Assisi, and Mother Theresa.

Quadrant "k", in which talent is not accompanied by respect, is inhabited by the devil, the Green Goblin, and by Pinocchio as a magical marionette without strings. We know that Pinocchio became a real boy under the watch of Jiminy Cricket and the Blue Fairy. But there is no rescue for the Green Goblin and the puppeteer Stromboli. Their only possible outlet is the "l" quadrant, which hosts the helpless schizophrenics who lose both their creative talent and their artistic respect.



The "m" quadrant in Part A may represent the innocent sanity of autism or make a metaphor for the heavenly stop reached by Muhammad in the "Mi'raj" journey (decoherence) that followed his Isra'



traveling (**coherence**) to the **Farthest Mosque** in 621 CE. In that year, Muhammad mounted the equine **Buraq** (quantum computing with the **head of a woman**) in **leaving behind** the Black Stone in Mecca and **returning to it** in just one **night**.

Darth Vader too left behind the temptations led by the **Emperor Palpatine**, touched the madness of Joruu C'baoth, and took in the piousness of R2-D2. After about 20 years, a repented **Black Knight** asked the Force to let him re-enter quadrant "n," which he had left when his wife died. Vader did not know that the Virgin of Guadalupe, a proxy for the Blue Fairy and Divine Providence, could have helped him repent much faster, to the loss of the producers of the *Star Wars* films. I assume that the Force did forgive him, joining Vader to Obi-Wan Kenobi. In the same way, we say in the *Lord's Prayer*, "forgive our sins, for we also forgive every one that is **indebted** to us" (Luke, 11:4; KJV).

In sum, we need to **know** that we can reach quadrant "n" by forgiving those that **mistreat** us!

Part B of Figure 7 follows a different approach to describing the journey that leads us to get the Vision of the Roots of the 3rd Attention and the Will that leads to our own Third Point. The story traced by the four ellipses of Part B was introduced by Moses in "Genesis" about the patriarch Jacob. Jacob **mised** (**2**) his older brother Esau (+1) and his father Isaac (+1) with the **complicity** of his mother **Rebekah**. In running toward the far-away home of his uncle Laban, that **born deceiver** decided to sleep along the road at Bethel. There, the Wisdom of the Archangel **Gabriel** made Jacob dream of angels going up (quantum coherence, **2**) and down (quantum decoherence, **3**) the ramp of **quantum computing**, which went from earth (autism) to heaven (schizophrenia). Upon waking up, Jacob understood the meaning (Vision or Seeing) of his dream about nature's nature (the 3rd Attention); and tried to change (by reaching his Third Point), within an effort that took 20 years.

The work of Jacob as a shepherd for twenty years enriched both him **and** his uncle/father-in-law **Laban**. In the end, Jacob decided to face the rage of Esau. Before meeting his brother, however, his patience, compassion, and humility were tested in Penuel by **Michael**. That archangel crippled Jacob by disjuncting one of his legs in exchange for straightening definitely his originally **twisted mind**. As an additional memento of the altruistic will reached by the **new Jacob**, Michael changed his name to "I-sra-el" ("He who fights with and is saved by God"). Michael blessed the Will of his opponent and set him toward his Third Point: **Jacob repented**; God saved Israel; and Esau **forgave** his twin brother. Equally, HN sought renaissance in helping God instead of helping the devil.

Although it is different from Part A, Part B of Figure 7 helps God by separating three Natural Values:

- the autistic faith of literal interpretations (the 1st attention) of Sacred Texts,
- the **artistic hope** (the 2nd attention) that follows our victory over devilish **temptation**, and
- **charity** (the 3rd Attention), which allows us to reach our Third Point by teaching others how to reach their personal Third Point. (For example, by forgiving whoever uses or **abuses** us.)

4. CONCLUSION

In the last decade, we have been uncovering the fact that "Homo neanderthalensis" (HN) was as cognitively advanced as "Homo sapiens" (HS). Perhaps we should also hypothesize that *Neanderthals were more conscious than we are of the need to protect nonhuman species, Values, and Nature.*

If the Arctic ceases to absorb greenhouse gases (McGuire et al., 2009), the concentration of CO₂ exceeds 1000 parts per million in the atmosphere (Ward, 2006), or we remain too many and rich (on the average), our grandchildren will lose the respect for their ancestors, the **talent** for re-inventing the world, and even their smile.

*In returning with Quetzalcoatl, though, we need more than stopping economic growth, wild proliferation, the purge of nonhuman species, and **egoism**: Re-directing the respect and the **creative power** of our young calls also for claiming the values prized by Neanderthals.*

Understanding and helping autistics would lead us rapidly to the Third Point in which "we'll tak' a cup o' kindness yet for days of auld lang syne."



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