

A Cognitive View of Martin Luther

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Abstract

The alliance of classical and quantum computing in nature and in Martin Luther’s reading of the Bible may readjust and rejoin religion, philosophy, and science. Luther’s deepest ideas match the vision of the late US Senator Edward Kennedy in seeking the progress of the young, civilization, and the Earth. Their grace may move some heroes/heroines to avert climate crises, the use of Weapons of Mass Destruction, and the premature loss of our grandchildren. Progress may rest on exploring the cognitive roots of Luther’s Reformation. Luther’s bids surpass autistics’ failure to lie by linking Neanderthals’ grasp of nature’s nature and of fire half a million years ago, the Yin-Yang symbol, the junction of Moises’s “Thummim” with his “Urim” stone, the Hindu Trimurti, Kali, Solomon’s wisdom, Quetzalcoatl’s going and return voyages in Mesoamerica, Buddha’s last word “appamāda,” Heraclitus’s philosophy, Jesus’s parables, Muhammad’s going from and return to Mecca in one night, Leonardo da Vinci’s art, and the research method of Galileo.

Keywords: Martin Luther, Reformation, climate change, autism, folly, Sacred Texts, science, Leonardo, Galileo Galilei

1. Introduction

In 1633, the Roman Catholic Church found the mathematician and scientist Galileo Galilei heretic for siding in his book “Dialogue concerning the two chief world systems” with the proposition of Nicolaus Copernicus that the Earth turns around the Sun; and not vice versa, as the Scriptures maintain (Joshua 10: 12-13, KJV). The Barberini Cardinal who condemned Galileo to indefinite house arrest in Galileo’s own Tuscan house at Arcetri and prohibition from teaching and publishing was brother to Maffeo Barberini, the Pope Urban VIII and a good friend of Galileo. The about-face of the pope separated science from religion and philosophy, although Urban VIII had consented to place the Tuscan coat of arms of his family (three busy bees) on the first page of Galileo’s book “*Il Saggiatore*” (Galilei, 1623). The cause?

The researcher Pietro Redondi (1987, p. 196) examined in the Vatican Archives an anonymous letter to Urban VIII saying that *Il Saggiatore* assaults the dogma of Transubstantiation in the Catholic Eucharist. In that book, Galileo posits the mediation of specific particles (for instance, molecules) between an emitting substance and perceivers of taste and odor. E.g., by sensing the odor of an apple in a kitchen we will conclude (classical computing, or our autistic 1st attention) that someone ate an apple there. Likewise, the approval of dogma (1st) subsides doubts (quantum computing, or the 2nd attention) in the person who feels eating a real host after its Eucharistic Consecration. In the view of the anonymous letter to Urban VIII, the trouble with Galileo’s proposal in *Il Saggiatore* is that it agrees with the theology (the 3rd attention) of Martin Luther, found heretical by the Council of Trent. The Jesuit Father Suárez had observed (Redondi, 1987), in the late 16th century, that Luther believed that two different substances may share the same space at once—within a faulty, indeterminate, and weird infinite speed and void (the blood of metaphors!).

Urban VIII had kept the written advice that St. Robert Bellarmine, a deceased Jesuit head of “Collegio Romano,” had given Galileo against siding with the then unproved Copernican theories. By blaming Galileo of going too far in his 1632’s *Dialogue*, Urban VIII stopped him from teaching and publishing, while simultaneously hiding the heretical implications of *Il Saggiatore*. Although the pope’s plan validated Luther’s 2nd attention, no one noticed his gory trick.

Luther’s launch (on October 31st, 1517—the day of all witches) of his concerns to selling indulgences about the stay of Christians in Purgatory marks the start of Reformation and the separation between Rome’s Catholic authorities and most governments in Northern-Europe/England. As with Shakespeare’s plays, Luther followed both Christ and Viking sages aware of the ruthless alliance (the 3rd attention) of classical (1st) and quantum (2nd) computing in natural systems, cromlechs, Sacred Texts (Cassella, 2022a), and the adventures of heroes/heroines.

In England, **Queen Elizabeth I** was told that in 1532 the Spanish had killed “El Dorado,” a Muisca Chief covered with gold dust, who **released** his precious load by **jumping** into the **water** at the **center** of the **circular** Lake Guatavita in Colombia’s high plains (Cassella, 2023); but Sir Walter Raleigh, the **knight** she sent to South America in 1595, never **took in** El Dorado’s **gesture**. Legends have (Ocampo López, 2013) that the first El Dorado **followed** “**Bochica**”—a **bearded** fellow who appeared near the future Bogotá in 0 CE (Common Era). The Muiscas **forgot** Bochica’s **teachings** as Mesoamericans **forgot** similar **teachings** by another bearded demigod: **Quetzalcoatl**. Thus, the **Aztecs** fell to **Hernán Cortés’ betrayal** in 1521, as the **Incas** would submit to the **lies** of a relative to Hernán Cortés: **Francisco Pizarro**.

In 1527 Pizarro, one of the first Europeans who **saw** the Pacific Ocean, stayed at Isla de Gallo, near the south-west coast of Colombia, delaying his return to western Panama, whose Spanish governor distrusted him. Before **returning**, Pizarro **traced a line on the soil**, **jumped to one side**, and asked his soldiers about who **sided** with his aim of **conquering** the **Inca Empire** (Hemming, 1970). “The Famous Thirteen” **consented**, but Pizarro also needed the support of Charles I of Spain and V of Austria. Thus, in 1528 he **returned** to Spain. Under the **recommendation** of Hernán Cortés, the **Holy Roman Emperor** ordered his wife Isabel to **authorize Pizarro** to **conquer** the Inca Empire. During his Spanish stay, **Pizarro** got a title of marquis, while **playing down** the keen role of his **associate** Diego de Almagro. In 1531, Pizarro and his brothers were joined by Sebastián de Belalcázar and Hernando de Soto. Dispatched south into Perú, the latter returned north to Pizarro’s camp with news that **Atahualpa**, who had **defeated** his brother **Huascar** (the **ruler** of Cuzco, the southern capital of the Inca Empire) would receive him in Cajamarca, where he enjoyed its hot waters with his wives.

Although he knew that Spanish soldiers wore **impenetrable** armors and helmets, while riding unknown animals (war horses), **Atahualpa** **trusted** his **army** of 50,000 **soldiers**. As with **Moctezuma II** (the ruler of the Aztec Empire), he **ignored** the **power** of **perfidy**. In 1532, **Francisco Pizarro** took Atahualpa **prisoner** in Cajamarca and consented to **free** him upon receiving a **ransom**. **Atahualpa** **collected about 90 tons of gold and the double of silver**. After **paying** a fee to Charles I/V, **Pizarro**, perhaps the **richest** Spaniard, **had** a Spanish tribunal condemn Atahualpa to **strangling**. He warred with Almagro about **ruling** Cuzco, after the latter failed to find gold in Chile. Pizarro freed his brother Hernando from Almagro, who was executed in 1538. Disagreeing with Pizarro, Hernando de Soto had returned to Spain in 1536. Yet he sold later his properties and went to North America. Upon **exploring** the Appalachians, Arkansas, and Texas (Hudson, 1998), natives gave him the **immortality** that Pizarro never got from the Incas and Cortés from the Mexicas.

When a band of **Mexica warriors** chose a swamp (the future Tenochtitlan, now Mexico City) in the Valley of Mexico, three centuries before the arrival of Hernán Cortés, they were led by locals to Teotihuacan (2017), a city whose name means “**the place where men become gods**.” Teotihuacan was burned in the 6th century CE (Common Era), though it started in the 4th century BCE (Before the Common Era). Although they were shown three different pyramids (“**The Sun**,” “**The Moon**,” and “**Quetzalcoatl**”) (Figure 1), the **locals** had forgotten their collective and individual meaning.



Figure 1. The Pyramid of the Moon, of Quetzalcoatl, and the Avenue of the Dead, seen from the Pyramid of the Sun.

The Aztecs did not understand that the three pyramids and the city they were seeing (Figure 1) reflected the three attentions/intentions and the strange organization of nature’s nature (Figure 2) (the word “intention” will be left out):

1) Classical computing, our 1st attention (the number “+1” in Figure 2), the Pyramid of the Sun, locality, any serpent (coatl), and a massive Earth are represented by the finite speed and perfection of our autistic side and by senses embedded in the columns of our cerebral cortex (I attribute the “-1” of madness to the cerebellar denial of locality).

2) quantum computing (our 2nd attention and number “2” in Figure 2) in whoever (excepting autistics; Cassella, 2018a) goes beyond the 1st attention by non-locating his or her implicit self between Earth/legitimacy/serpents and Venus/illegitimacy/birds, in the fantastic problems we try to solve in our 5,000 cerebellar microcomplexes (embedded in columns formed by neurons of the cerebellar cortex, the cerebellar vermis, the deep cerebellar nuclei, the basal ganglia, and the brainstem); and . . .

3) Martin Luther’s implied proposal that the personal union (3rd) of Christ’s omnipresence-consubstantiation (2) with rigid reality (+1) allows anybody to return to a renewed life in Transubstantiation (the number 3 in Figure 2).

E.g., after remembering concurrently (2) in a cerebellar microcomplex the smell of an approaching lion (“+1” in a specific cerebral column) and the odor of a rabbit (“+1” in a different cerebral column), and recognizing (3) the danger, a herd of gazelles will run, under the terror (“-1”, or our schizophrenic side) each of them has of being eaten.

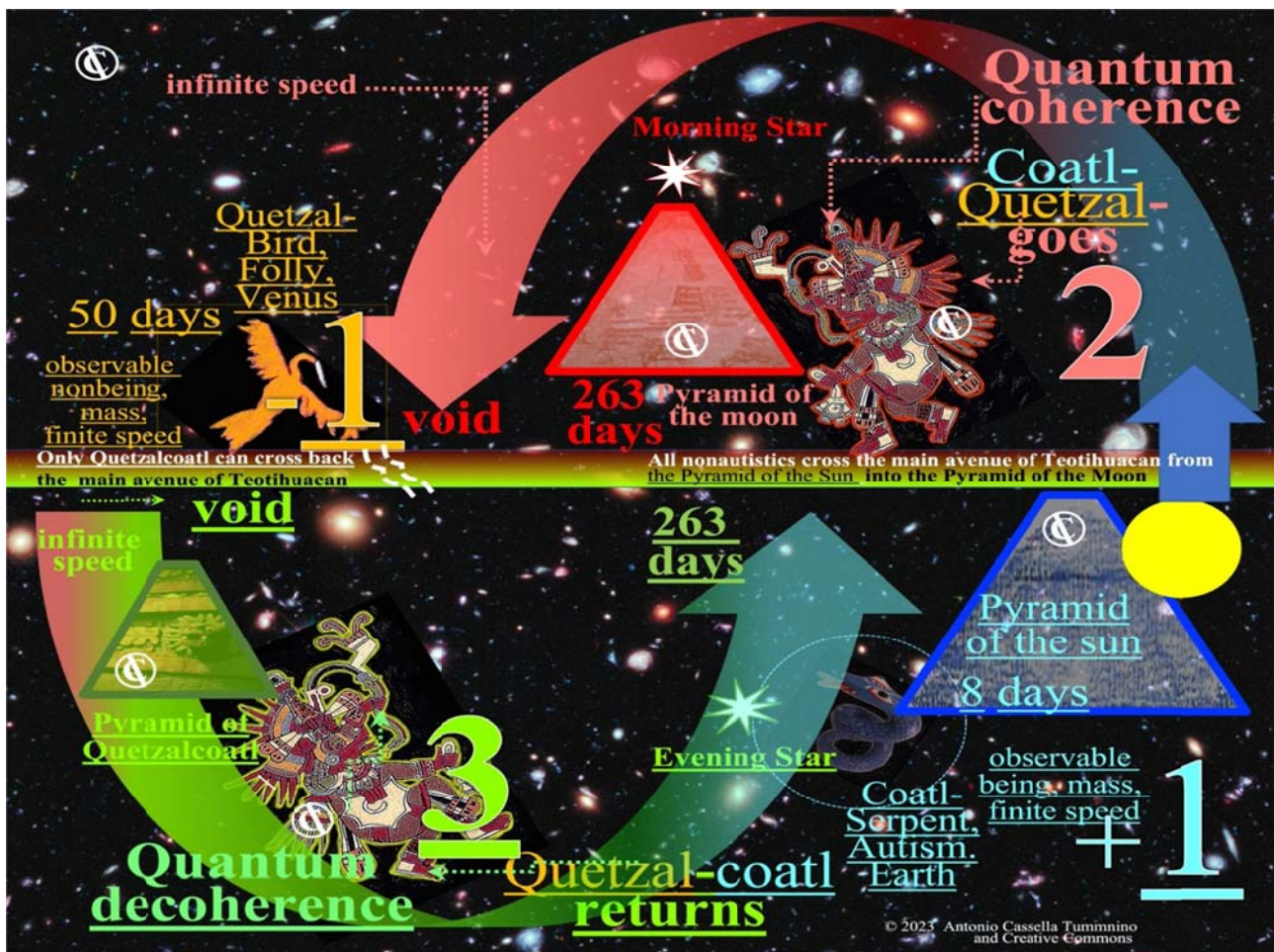


Figure 2. The coherence and decoherence quantum “movement” of Quetzalcoatl.

The demigod Quetzalcoatl (Cassella, 2018a), or the hero/heroine hidden in our implicit self, would go to Venus (our schizophrenic side) and return to Earth in line with the synodic period of that planet (about 584 days). The power of the Moon (quantum computing) allows Quetzalcoatl (or “Coatl-quetzal” [“snake-bird”]) to use the decreasing luminosity of the Morning Star in going to Venus (folly), stay there for 50 days (Figure 2), and then return to Earth with the increasing luminosity of the Evening Star for 263 days. After our explicit self (classical computing) rests 8 days in the arms of our autistic side (right of Figure 2), our implicit self (quantum computing) joins again Venus’s synodic cycle, problem after problem (2), solution after solution (3), and recall after recall (new solutions update our recalls).

Since terrestrial snakes oppose heavenly birds (in the same way that our Earthly and cerebral autistic side [+“+1”] opposes our Venusian and cerebellar schizophrenic side [“-1”]), Quetzalcoatl’s going voyage may be compared to bridging an abyss between two opposite schemata (e.g., being and nonbeing), to flying, or to existing in opposite universes simultaneously, as does Hamlet when he says, “to be or not to be” in Act III of Shakespeare’s eponymous play. In his/her going and lunar metaphorical voyage, then, Quetzalcoatl’s speed must be infinite and unmeasurable (Figure 3) as stated by Heisenberg in his Uncertainty Principle, and by Schrödinger in relation to validating the life or death of a cat kept in an opaque cage, in which a radioactive substance will or will not kill that feline after one hour. Only the complementarity advised by Niels Bohr (3) would overwhelm the uncertainty unleashed by Schrödinger (2).

Still, to leave schizophrenia behind and cross the main avenue of Teotihuacan, Quetzalcoatl must accomplish a miracle: Marry the void of nothingness, as if he/she were a ghost (e.g., Prince Hamlet’s father crossing a wall of Elsinore Castle in Act I of “Hamlet”). Of course, the human brain relies on tricks, as looking at once in a cerebellar microcomplex at separates copies of cerebral schemata or passing from viewing one copy to viewing another copy in dreams, as does Captain Kirk when he returns instantly to the Piloting Room of the Enterprise after escaping a faraway dungeon.

The Mexica warriors who reached Teotihuacan eight centuries ago (and most people today) did not know that the three pyramids they were seeing are ruled by mysterious principles (Figure 3). The Pyramid of the Sun, or the autistic side of our minds spared in autism, has it that “an object cannot exist in two or more separate places at once.” E.g., we cannot avoid a spear by joining instantly a distant alter ego!

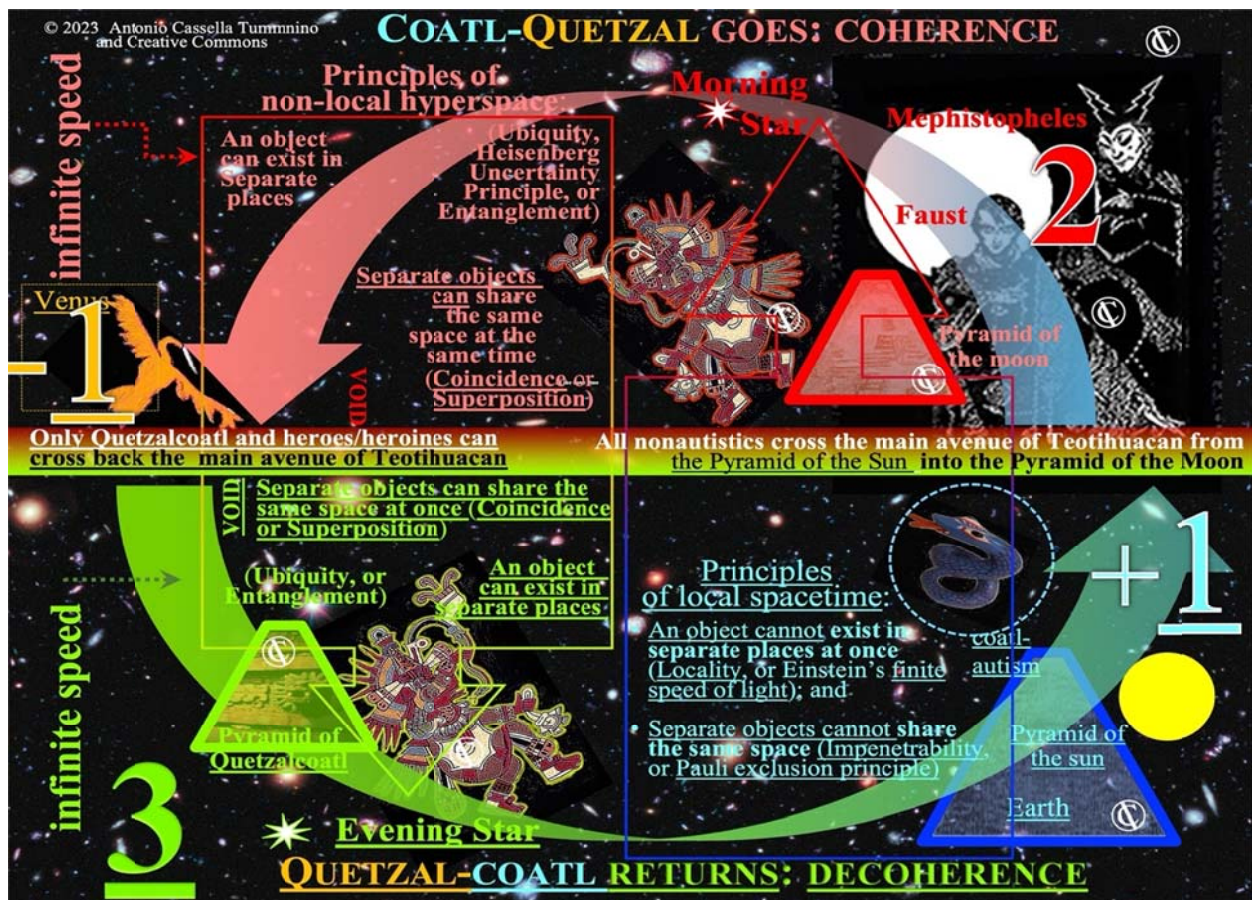


Figure 3. Principles of local spacetime/classical computing/1st-attention (in blue); principles of nonlocal hyperspace/quantum computing/2nd attention (in red); and principles of creativity (in green).

I have called “Locality” (Cassella, 2018a) the principle related to Einstein’s stressing that the speed of light cannot be infinite. Since we attribute to finite speed any change of position over time, knowing the speed of a system, we can calculate its future position. E.g., if we know the speed and the time a car left Jacksonville (FL, USA) on I-95 toward New York, we can calculate the time it will pass by Florence in South Carolina. Columbus used the same method to determine that in three months he would reach Japan; but he assumed that the diameter of the Earth was smaller than its real value. Yet he could have arrived in Japan after sailing three months if his ship had crossed Earth in going to the

antipodal location of Spain (near New Zealand); and then to Japan. But the principle of Impenetrability (Pauli Exclusion Principle in Quantum Mechanics) barred the Coincidence or Superposition (Cassella, 2018a) by which we cross stone walls in movies and dreaming. Happily, he found Mesoamerica, thus avoiding the mutiny of the sailors of his three ships. Happily, God walked with him, as He walks with our real solutions to real problems.

Similarly, while he was alive, Hamlet's father could not cross the stone walls of Elsinore Castle, something that Lord Voldemort and Harry Potter would do quite easily, thanks to the power of magic in cerebellar microcomplexes or of ghostly photons on the screen of a cinema. Ghosts enjoy another quantum ability, the one to be here and there simultaneously, since there is no way to cross a wall without experiencing an infinite speed, as Figure 3 implies. The lying devil too uses the quantum power of the Moon to exist here and there simultaneously, a power also sought by Dr. Faust. Simultaneity, or the ability to exist in opposite concepts at once, is key to lying. Thus, Prince Hamlet might consider that perhaps his father's ghost is lying about the guiltiness of his brother and Hamlet's uncle, King Claudius. The fact is that the eponymous tragedy "Hamlet" would end in Act I if Prince Hamlet believed the words of the ghost of his deceased father; and an autistic-like Shakespeare would have gone nowhere. Hamlet's words "to be or not to be" in Act III, then, tell spectators that he needs more time to know the truth about his father's killer. Maybe Claudius is lying. Autistics cannot lie, get the word "maybe," or use it in any way. They cannot doubt, hope, or sin.

Francisco Pizarro lied to Atahualpa when he told him that he would free him after receiving the agreed upon ransom. We can associate Pizarro with the Moon and with the devil along the bridge of coherence. Yet if we can differentiate Hamlet from Claudius and Harry Potter from Lord Voldemort, we must admit that most liars do not reach the 3rd attention that combines quantum with classical computing. The 2nd attention is necessary to reach the 3rd attention, as is tension in a good play, a good book, a good article, a good film, a good discourse, and even a good song (at the end of the bridge of decoherence in Figure 4). The 2nd and 3rd attentions are as real as the reality we see!

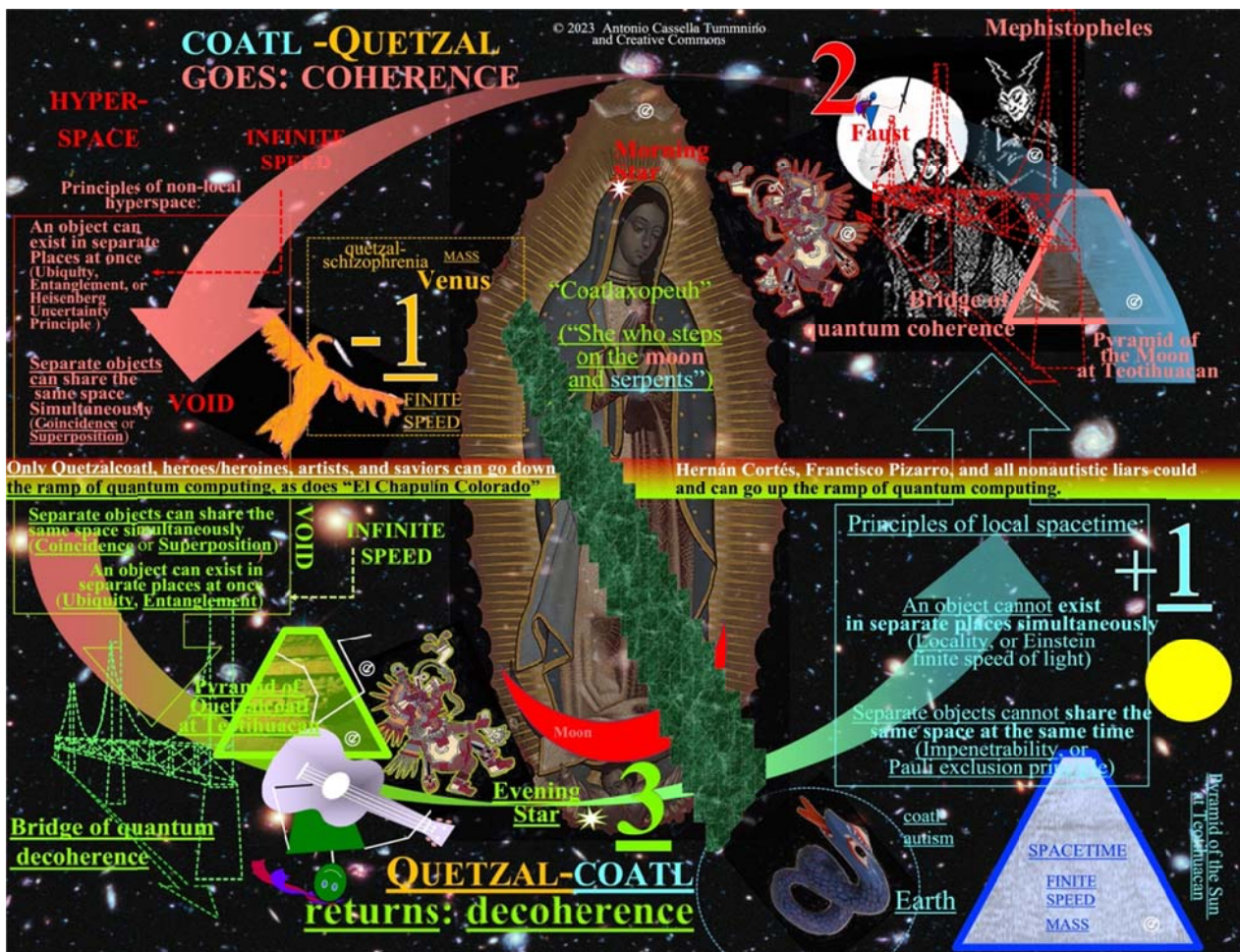


Figure 4. Anybody can go up the ramp of quantum computing, but only Quetzalcoatl and heroes/heroines can go down!

Goodness belongs to God. Any artist becomes a god if God walks with him/her. God walked with Shakespeare, Columbus, and Hernando de Soto; but not with Pizarro. The Mexica St. Juan Diego met on a mountain a woman

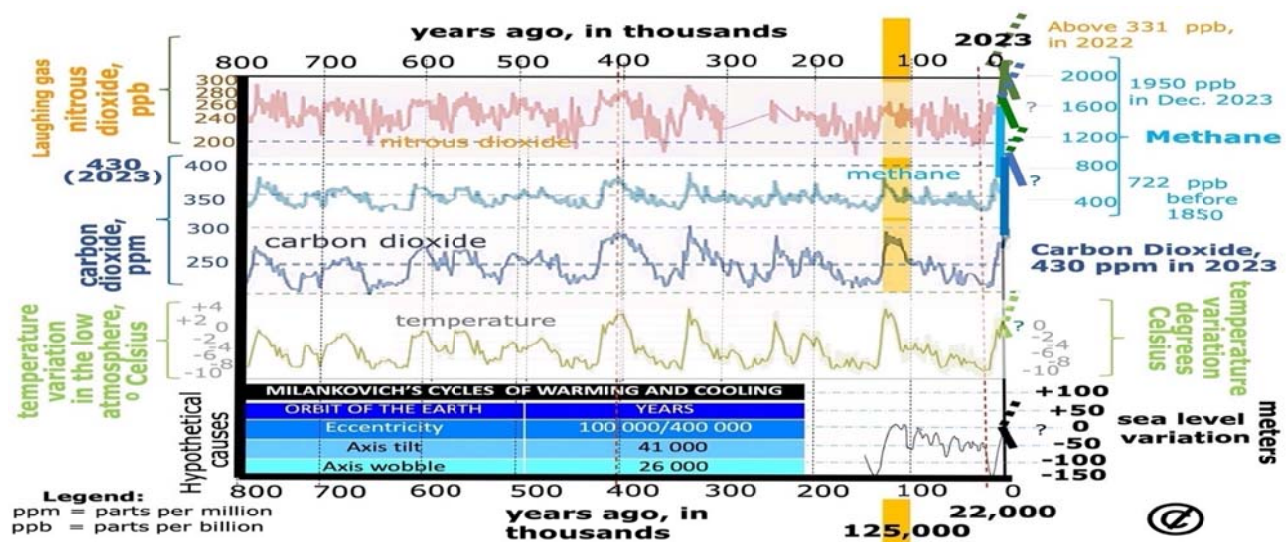
who called herself “Coatlaxopeuh.” **Coatlaxopeuh’s grace** will help us since the Lord **walks with her**. Still, the Spaniards associated the Nahuatl word *Coatlaxopeuh* (“She who steps on the **moon** and **serpents**”) with “Guadalupe,” the black mother of Jesus valued in Extremadura. Consider that if Coatlaxopeuh is **everywhere**, in autism (+1), madness (-1), coherence (2, or the Morning Star), and decoherence (3, or the Evening Star), she will step both on the **devil** and on **serpents**). Could that explain why the **devil** (2) does not bother the **3rd attention**? Are we missing a crucial truth?

King Solomon **understood** that “**men become gods**” within the **alliance** of the 1st and the 2nd into the 3rd attention. Starting from 960 BCE, the mariners of the visiting Queen of Sheba might have discussed that **alliance** with sages of Yemen-Oman, Ethiopia, the Mesoamerican Olmecs, with Hindu gurus acquainted with the **Trimurti** (**Vishnu, Shiva, and Brahma**), and with the priests of the **goddess Artemis** in the city of Ephesus in Asia Minor (to whom the philosopher-priest Heraclitus dedicated his **aphorisms**). Sheba’s mariners may have also talked to the **Buddha** in Northern India. Before dying, the “Tathā-āgata” (“thus **come**,” or decoherence; who could **return** without **going** first?) said with his last word “appamāda” (Batchelor, 2005) that **salvation** comes from a *personal* sense of **care**.

The **meaning** of Buddha’s last word may reflect the **meeting** of **Laozi** with **Yin-Xi**, the **Guardian** of the Western Gate of the Great Wall (Lao-Tze, 1891). For 3 years, Laozi stayed with **Yin-Xi** while writing the “**Tao Te Ching**” (a compendium of the roots of **salvation**) and consigned it to his **jailor** who had become his **disciple**. Taking with **him Yin-Xi** and his **tricks**, **Laozi crossed** the Great Wall in **choosing to live** on the Tien-Shan mountains, while **sustaining** there the **circular Yin-Yang** symbol **blessed** by the **Yellow Emperor** two millennia before. Japanese **Zen** (Hui-Neng, 1981) adopted **Laozi’s** and **Yin-Xi’s** final **way**, which reflects the **meeting** that **Laozi** had with **Kongfuzi** some years before he met **Yin-Xi**. **Zen** only added Laozi’s **Way** to the **meditation** brought to China by the Mahayana Buddhist monk **Bodhidharma**. Perhaps the **circles of stone** left by our *Stone-Age ancestors in Japan and all over Earth* will **enhance** our **vision** of the **Yin-Yang symbol** and the deepest **thoughts** of Martin Luther.

The **building** (near 9,000 BCE) and **burying** (1,000 years later) by hunter-gatherers of the **circular-spiral** temples of **Göbekli Tepe** (2017), on the **top/nothingness** of a Turkish **mountain chain** (near the **Fertile Crescent** and the **Nile Valley**), suggests the **growth** and our subsequent **amnesia** of the thinking skills related to the 2nd and 3rd attentions. Our **Neanderthal** cave-dwelling teachers were impressed (perhaps half a million years ago) by the **circle** shown in looking at a **horizontally-cut stalagmite**, the **nothingness** at the tip of its conical shape, the **hyperbola, parabola, and ellipse** resulting from cutting a stalagmite diagonally, the **creativity** behind **water**, and **spirals** of **ammonites** in stones. Any **circle/spiral** shows the **works** of **infinity** and **nothingness**. We are **free** to use **Superposition**, or the **void** associated to quantum **Entanglement** in very different ways. We and our descendants might **follow** the **sins** of **Francisco Pizarro**. A more **natural** path, though, would **follow** **Hernando de Soto** and **Martin Luther**. How?

I encourage the reader to **examine** Figure 5 before going to my Hypotheses and to the Discussion Sections.



The temperature variation reflects a NASA (National Aeronautics and Space Administration) graph by Robert Simmons with data by Jouzel et al. (2007), published by NASA’s Earth Observatory in 2010. Carbon dioxide, methane, and nitrous oxide variations from 800,000 BCE to 2015 by U.S. EPA (Environmental Protection Agency), published in the EPA website in August 2016. The data about the concentration of greenhouse gases after 2016 were added by me, as well as sea levels in the last 22,000 years. Sea levels before 22,000 years ago were taken from a curve published by U.S. NOAA (National Oceanic and Atmospheric Administration). Notice the rise of 6-7 meters during more than 20,000 years in the level of the sea about 125,000 years ago, when the temperature of the low atmosphere increased by 3 degrees Celsius.

Figure 5. Variation of greenhouse gases in the last 800,000 years and of sea-level in the last 150,000 years

Variables in Figure 5 show a shocking match. E.g., the sea-level rise by 6-7 meters 125,000 years ago (in 25,000 years).

2. Hypotheses and Aims

In the Discussion, I posit first the impending chaos (Figure 6) that might befall our sins of *unlimited reproduction and the geometric expansion of our per-capita consumption of fossil energy at the expense of free nonhuman species*. A letter I received from U.S. Senator Edward Kennedy in 2007 (Figure 7) highlights the need (my second hypothesis) to explore, fight, build-up, and implant a vision to solve the problem of global warming and of terrorists enamored of Weapons of Mass Destruction (WMD). We can develop and share a vision that might save our descendants by exploring the relationship (my third hypothesis) between the 2nd attention and complex numbers (“z,” Figure 12). I also suppose that combining Luther’s theories and Kennedy’s bent for fighting good will also allow us to understand, uncover, and save Leonardo da Vinci’s vanished mural “Fight for the Standard” in the Hall of the 500 at Florence’s Palazzo Vecchio (Figure 13). I end my quest by comparing in Figure 14 Leonardo’s drawing “Vitruvian Man” with the saga of Harry Potter. Uncovering the “Fight for the Standard” will allow us to step on the autistic snake and on the devil that killed Moctezuma II and Atahualpa and seeks now the untimely death of our grandchildren.

3. Discussion

Figure 6 illustrates the three avalanches that besech our future:

- The dangers (in yellow) derived from the correlation among the variables depicted in Figure 5;
- excursions of the Chemocline (in red) that separates oxygen from sulphur bacteria in our bodies of water, and
- our technical advances in manufacturing WMD.

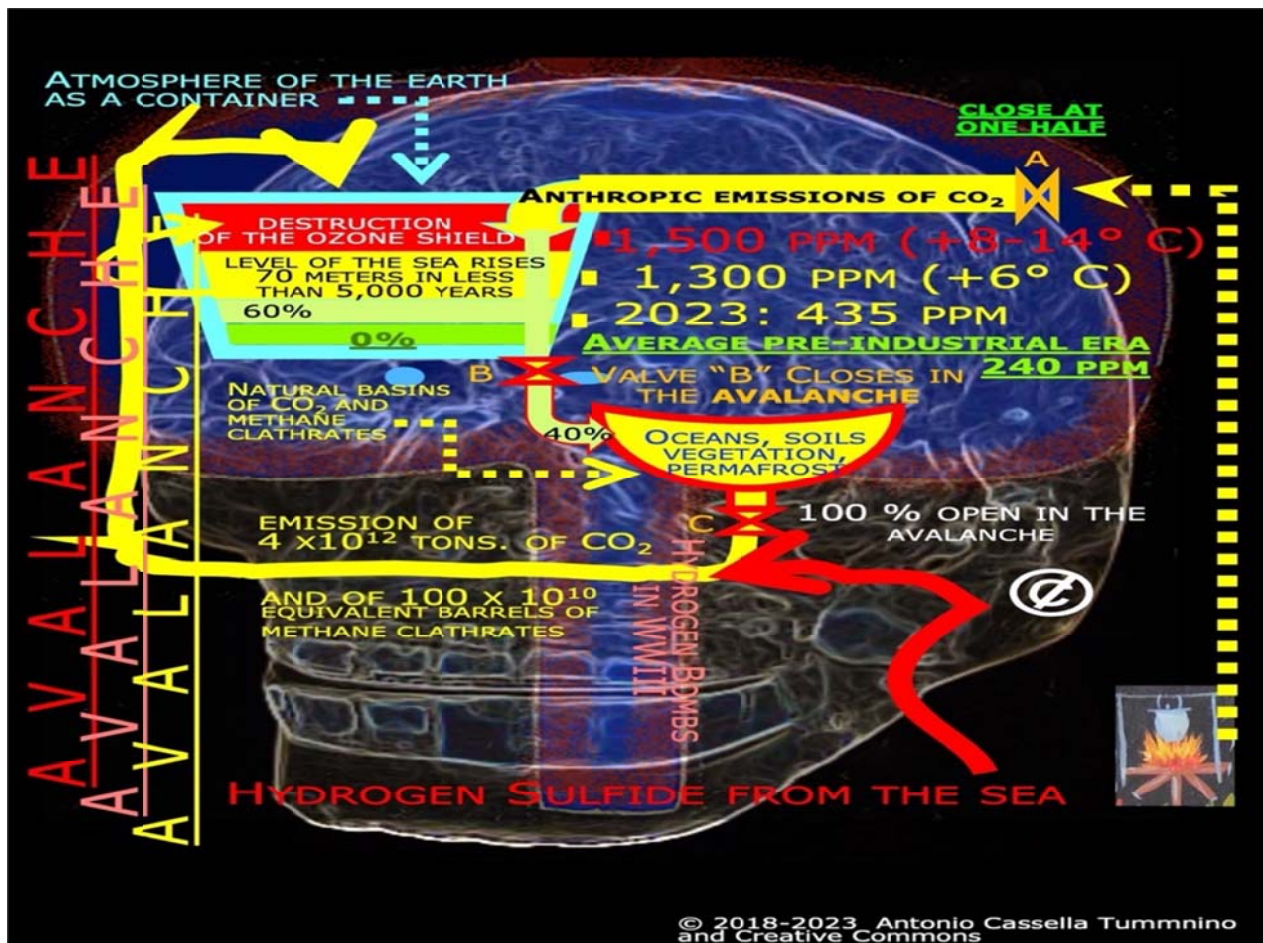


Figure 6. The three avalanches that menace the progress of our grandchildren: Greenhouse vapors (in yellow), Chemocline excursions from our bodies of water (in red), and atomic blasts by terrorists (in light red).

In Figure 6, the view of Earth’s atmosphere as a container shows that the concentration (ppm [parts per million]) of CO₂ (carbon dioxide) in the atmosphere has grown from an average of 240 ppm in the last 800,000 years to 435 ppm

in 2023. I already highlighted the info (Figure 5) that, 125,000 years ago, sea level grew by 6 or 7 meters *in a period of about 25 millennia* when the temperature of the lower atmosphere grew by 3° C (degrees Celsius). No **problem!**

But the temperature rise may not stay at 3° C (an increase of 1.5° C has already occurred). At present, about 60% of the carbon dioxide (CO₂) we release *stays* in the atmosphere, while 40% reaches its natural basins through the opening of virtual valve “B” (Figure 6). If valve “B” closes, however (because of the acidification of Earth’s oceans, desertification, and the loss of forests and the permafrost), then, more greenhouse gases will stay in the atmosphere. The consequence will be the melting of all Polar ice and an increase of sea level by 70 meters *in less than 5 millennia*. Unfortunately, that scenario is unstable. If the temperature of the lower atmosphere goes up by more than 6° C, then the crystals of methane clathrates at the bottom of our oceans might melt, although the present IPCC’s (IPCC, 2023) report (AR6) considers negligible the contribution of marine methane clathrates over the next two centuries.

In any case, Figure 5 tells us that *unknown mechanisms do exist that keep a correlation among:*

- a) *the concentrations of greenhouse gases in the atmosphere,*
- b) *variations of atmospheric temperature at sea level, and*
- c) *sea level.*

Under the spell of the memory of the past shown in Figure 5 we may **imagine** that the lower temperature of the atmosphere will grow by more than 6° C, unless we **do something** in time about the **problem** that knocks at our door. If we **do nothing**, we will reach first the tropical conditions of the PETM (Paleocene-Eocene Thermal Maximum) of 56 Mya—a case that gave us the first horses and that many scientists compare with the present global warming.

But if the temperature rise of the lower atmosphere surpasses 6° C, we may encounter the conditions at the end of the Triassic (200 Mya) and even at the end of the Permian (252 Mya), within the Great Dying caused by a sudden eruption at the Siberian Traps (Ward, 2006). In that explosion, magma crossed vast deposits of coal, raising the concentration of CO₂ in the atmosphere by 4,000 ppm, besides freeing gases with Mercury, Cobalt, and Arsenic.

Without the eruption that caused the Great Dying, a rise of more than 6° C in the lower atmosphere might cause a rise of the marine Chemocline that separates bacteria fed by oxygen from lower bacteria fed by sulphur. A leak of Hydrogen Sulfide would poison again land species, besides weakening the Ozone Shield.

Finally, *WWIII cannot be discarded.*

How soon would any or a triple avalanche occur is difficult to say. Yet all countries involved in the present war between Ukraine and Russia have been courting WWIII, the launching of hydrogen bombs on the cities of Earth that welcome now most of us, and the use of biological weapons to kill nonurban people.

The possibility that two billions of our grandchildren might die a lonely, chaotic, and premature death, within the fall of civilization and the loss of most of the remaining nonhuman free species make *global warming Public Enemy No. 1, even if the probability of its occurrence were very low.*

In my view, though, the involved probability is not low.

The fact that terrorists (or leaders of countries that embraces terrorism) could use WMD to frighten, control, or kill our grandchildren forces us to reflect on four critical aspects of the present civilization:

- a) our *wild reproduction* (from 4 million people in 10,000 BCE to 8 billion people in 2022);
- b) the *swelled consumption of energy per capita and per year* (from 1.3 equivalent barrels of oil [Malanima, 2014] when **sabretooth cats** went extinct [around 10,000 BCE] to about 12 equivalent barrels in 2022 [B. P., 2022]),
- c) with an 82% of the present consumption based on *fossil fuels*; and
- d) our *increased technological know-how* (from starting and keeping a fire by few Neanderthals, about half a million years ago, to the modern Internet and the manufacturing of WMD).

Still, the major cause for the modern degeneration of the environment and our minds is our difficulty to remember nature’s ruthless roots, which Neanderthals and a few Sages among our ancestors knew well.

Sabretooth tigers were not kind teachers, but human kindness, tenacious disposition, and our capacity to solve problems may help.

In Figure 7, the kind letter that the late US Senator Edward Kennedy wrote to me in 2007 may lead us to the vision and courage that could allow us to change *climate change and terrorism from a menace to civilization into an opportunity of sustainable progress.*

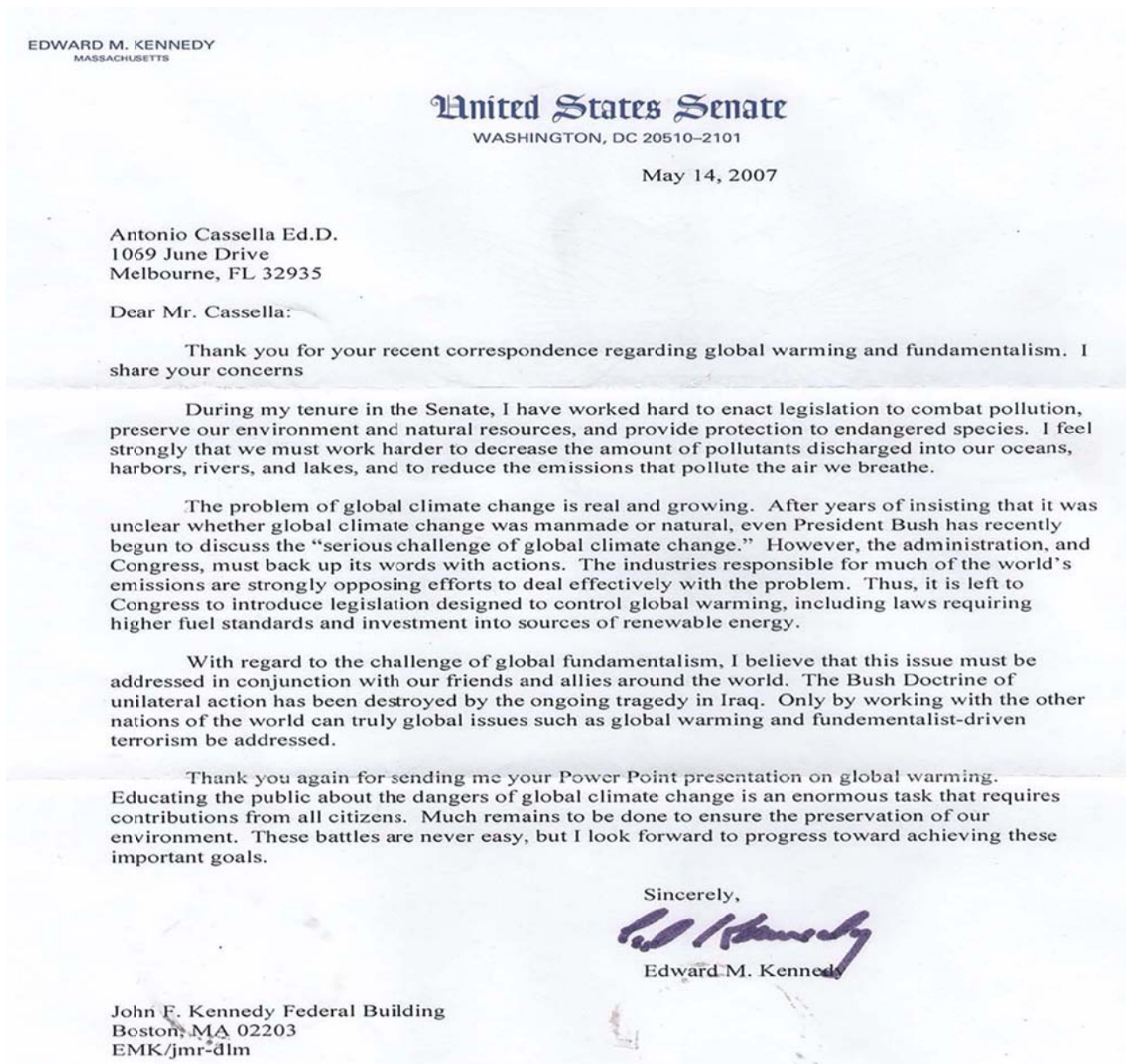


Figure 7. The letter I received from US Senator Edward M. Kennedy

Toward re-gaining the **vision** that vanished Neanderthals had, in Figure 8 I highlight again the infinite speed and void of the **2nd attention**, which my research on the comparison of autistic versus nonautistic teens brought to light (Figure 10) in the late nineties at Harvard University.

Within **infinite speed**, we do not only **move instantly between here and there**, as does the **devil**; we can also **move** between **now and a better future** for all, as **did** Luther, Edward Kennedy, and **does** the **grace** of **Coatlaxopeuh**. That "**move**" implies **remembering** the **past and the future**, a possibility pointed to the young Alice (of "Alice in Wonderland") by the *White Queen of Chess* in the book "Through the Looking Glass," (Carroll, 1971, p. 186).

The **union** of **classical** and **quantum** computing in the **warm hole** ("z") (Figure 8) that lies between the **black hole** at the end of the **bridge of coherence** in the **2nd attention** and the **white hole** that follows the **bridge of decoherence** (a union forbidden to whoever does not **walk with** God) *makes a mystery that escapes so far our comprehension*.

Christ **chose** the mission of **saving** whoever **understood** his **parables, short allegories, and metaphors**—an **elegant** and **kind** form of **lying**, as in Walt Disney's "**Disneyworld**." Out of ambition, Hernando de Soto too **lied** to the imprisoned Atahualpa in Cajamarca, while **loyal** Inca **subjects** collected the gold of that emperor. But de Soto also **taught to** and **played chess with** Atahualpa (Hemmings, 1970). Did God **walk with** both **de Soto** and **Disney**?

Unlike the **devil**, any nonautistic human could become a **hero/heroine** by **singing with, walking with God**, and **understanding** the meaning of the song “Auld Lang Syne” copied by the Scottish poet Robert Burns,

“And **surely ye’ll be your pint-stoup** / and **surely I’ll be mine!** /
 And **we’ll tak a cup of kindness yet** / for auld lang syne.”

What is the secret of the **devil’s** failure to follow the **elegance** and **kindness** of Walt Disney, of Robert Burns, and of Totò Cutugno’s in **composing** the song “l’Italiano” (Figure 8)? As it seems, **walking with God**, as did Enoch (Alter, 1996, p. 23) is something more **complex** than the **kindness** of Christ or the **ruthlessness** of sabretooth tigers.

Any **hero/heroine** can **cross** the dividing line between the **second** and the **third** attentions. Any human has an **autistic side** (the right face at the center of Figure 8 with probability = $p = 1$) and a **schizophrenic side** (the left face with $p = 0$). Any nonautistic can **join** our two opposite faces "ket 1" and "ket 0" in the quantum **coherence** of a cerebellar microcomplex **but only heroes/heroines and Saints realize** that they can **use** the **infinite-speed/nothingness** of **lying** in the 2nd attention to flee the **devil** and **madness**. **Car drivers** who, after tasting **Transubstantiation**, **disrespect** innocent pedestrians do not match the kind Mexican comedian “**Chapulín Colorado**.”

Prudent car drivers and tribunals rely on **infinite speed** and **nothingness** because both the **judge** and the **jury** must **allow** a **defense lawyer** to **fight** a **prosecutor** about a defendant who **might or might not be a felon**. Thus, the same person (the defendant) courts **innocence and guilt simultaneously**—the product of **infinite speed, nothingness, and lying**. Yet **jurors and judges are bounded by legality and the truth**. A sabretooth tiger (the central face of Figure 8 when **seen head on**) **ate only** out of its capacity to **lie**. We all are successful descendants of people who ate like **lying tigers** or people who flew like **smart gazelles**. **Heroes/heroines see concurrently** our **right autistic facet**, our **left schizophrenic facet**, and our **head-on facet**. Can a tribunal stop the possible avalanches shown in Figure 6 by **ruling their illegality**?

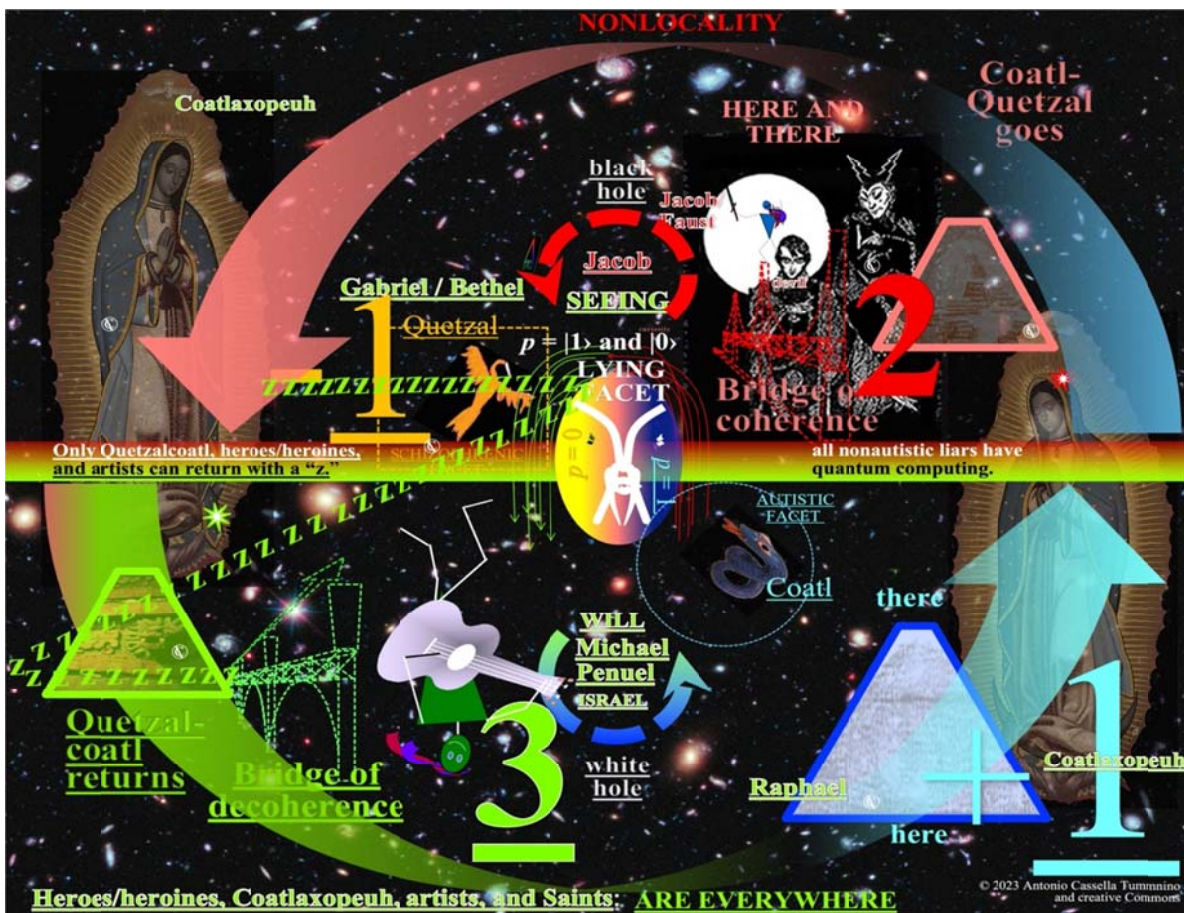


Figure 8. The complex wormhole (Z) of creation on the way of a Hero/Heroine or a Saint.

Heroes/heroines who transform the 2nd into the 3rd attention know that on the **return road** (opened by **infinite speed, nothingness, and lying**), there is suffering. **Christ cried** (Matthew 27:46, KJV) “Eli, Eli, lama sabachthani?” (“My god, my God, why hast thou forsaken me?”). One of the Roman soldiers who crucified Jesus said that He was calling **Elijah**. But before His death and **resurrection**, the suffering and **scorned** King of the Jews, wanted **God**, not **Elijah**.

Jesus had met **Elijah** on Mount Tabor (according to Origenes), during the **Transfiguration** that announced His path to **crucifixion** and **resurrection** in Jerusalem. Matthew (17:1-8, KJV) wrote that Jesus took Peter, James, and his brother John into a **mountain** where his face and vest **shined** before **Moses** (the **law**) and **Elijah** (the **quantum ability** to **devise** new **laws**) who **came from nowhere** to talk to him. Peter suggested to make three tents:

- A **tent for Moses** (**1st attention** or **classical computing** in the autistic side that inhabits our cerebral cortex),
- a **tent for Elijah** (**2nd attention**, or **quantum computing** in our cerebellar microcomplexes) and
- a **tent for Jesus** (the **union** of classical and **quantum** principles in the **return** of Quetzalcoatl from Venus [**madness**] to a **newer 1st attention** on Earth).

Unlike his successors, Peter did **understand**. A **voice** coming from a cloud suggested the flat disciples to **follow** the **teachings** of **his beloved son**. When they looked up, **Moses** and **Elijah** were gone. Although John the Evangelist was there and did not report Jesus’s Transfiguration, one may conclude that God **walked with Peter and our ancestors**.

Figure 9 shows that our Neanderthal and Homo-sapiens ancestors **got** the **meaning** of **infinity**, **nothingness**, and **lying** in securing **progress**. We do not need the “James Webb Space Telescope” to reunite religion, philosophy, and science.



Figure 9. The timeline of the recognition of the roots of natural systems and the human mind

- At the launch of our timeline on Earth, the capacity to start a fire (500,000 years ago by Neanderthal troglodytes) marks the setup of **progress**. In part A, a 175,000 old circle and ellipse made with broken stalagmites in the French Bruniquel Cave confirms Neanderthals’ capacity to **read** the **infinite speed and void** in nature’s **way**;
- in going south, Neanderthals confirmed in the Spanish “La Pasiega” Cave (B) that as early as 63,000 years ago they could separate “in front of” from “behind,” something that autistics cannot **do**;
- in part C, the Neanderthals at Gorham’s Cave in Gibraltar left a diagram (before 37,000 BCE) (Rodríguez-Vidal et al., 2014) that separates a **problem** (quantum coherence) from its **solution** (quantum decoherence);
- in part D, the **tension** used by ancient Egyptians in manufacturing **bows** and **kitharas** (guitars) proves that some Neanderthals had taught a few Homo sapiens;
- in 10,000 BCE, the first **Egyptian Sphinx** reflected the brutal ability of **sabretooth tigers** (“Abu Alhul,” “father of terror”) to hunt the human travelers that wanted to emigrate from Africa;
- the spiral temple of **Göbekli Tepe** (2017) shows the trap of **autism** that imprisons **mentally-blind people** incapable of recognizing **problems**, the trap of **madness** in the hunters that **make a pact** with the **devil**, and the **vision** and **will** of the **heroes/heroines** and **Saints** who **know** how to **cross** a **stone wall** with **no door**;
- by changing the **head** of the first Sphinx with his **head**, Pharaoh Khufu stressed the **immortality** that . . .
- awaits people that **unite** the **1st** and the **2nd** into the **3rd** attention . . .
- exemplified by the **Yin-Yang symbol** venerated . . .

- j) by the **Yellow Emperor** in China; and translated by Chinese and Hindu sages . . .
- k) into the **OM word** (pronounced “AUM”), as given around 1500 BCE in the classical sound “**aaaa**” (1st) followed by the quantum sound “**uuuu**” (2nd) and their **union** (3rd) in the sound “**mmm**”; the same aim was intended by . . .
- l) Moses when he **sewed** the crystals **Thummim** (classical computing) and **Urim** (quantum computing) at the height of the **heart** in Aaron’s ephod (kept in the **Ark of the Covenant**), while responding to the “**House of Toth**”;
- m) in 1250 BCE, Queen Nefertari too trailed the “**House of Toth**” when she showed the **crossing** of the **crook** and the **flail** that allowed Ramses II to escape **madness** and **death** in **resurrecting** as **Osiris**; and lastly, . . .
- n) the Olmecs venerated by 900 BCE a dragon-like, **feathered-serpent demigod** that Aztecs called **Quetzalcoatl**.

The entire history seen in the timeline of Figure 9 relies on the **infinite speed** and **nothingness** of **lying** (2nd) when “Quetzalcoatl” becomes a **metaphor** for **progress**.

Any one-year-old girl (stage 3 in Piaget; Figure 10) who **teases** an **innocent visitor** by **offering him candy** and **retracting her arm** when he tries to **grab** it proves that **nonlocal computing** precedes **local meta-representation** in 7.5-year-olds (stage 5 in Piaget’s scale). Since children finally **give away** the candy involved in their **teasing**, we may conclude that also the **3rd attention** makes an **innate gift**, although there are no tests that can prove my proposal.

Jean Piaget pioneered **local meta-representation**. Yet the **relationship** between **local** and **nonlocal** computing in Figure 10 (produced by my research in 1994-1997) cannot say why the 2nd heralds the 3rd attention in nonautistic kids; and why were Christ and Atahualpa **betrayed**. We usually **lie** to **save ourselves** or **our family members**. Because some **heroes/heroines** **lie** to **save** others, the **search** to **uncover** a **fundamental truth** must continue.

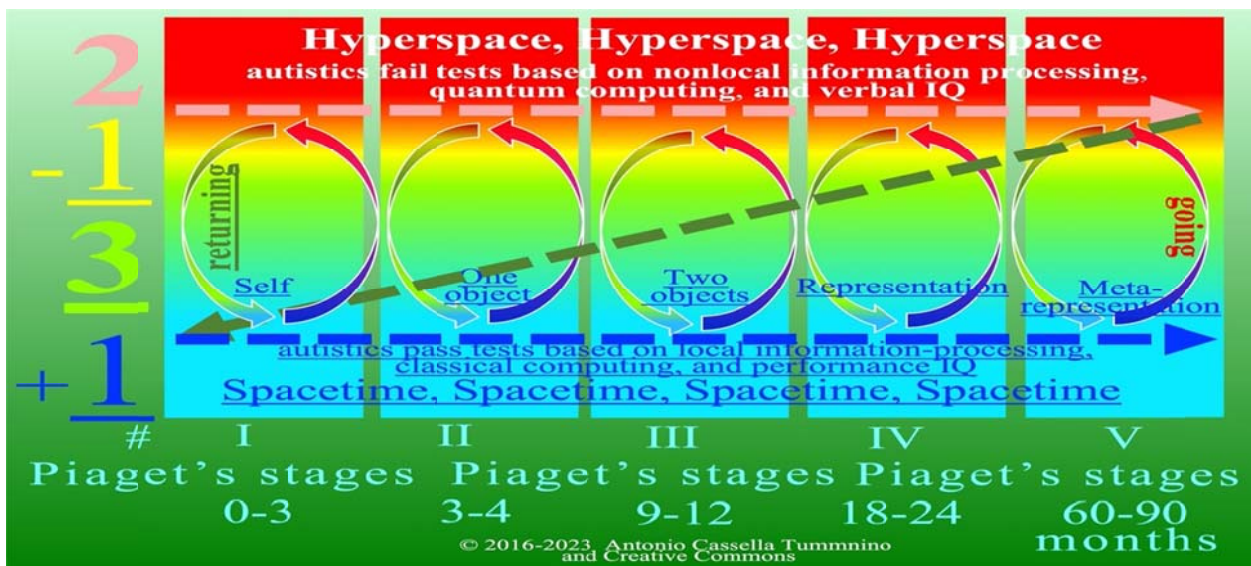


Figure 10. The relationship between local and nonlocal computing in preschoolers

The Mesoamerican myth about the **going** and **returning** Quetzalcoatl may help. Quetzalcoatl **returns** with **heroes/heroines** (or Men-and Women-of-Knowledge) and Saints who **walk with God**. Did God **walk with** Atahualpa and de Soto because the latter taught **good chess** to an Atahualpa who was a **good learner**?

Perhaps Atahualpa noticed that either the White or the Black Queen could **move** more **flexibly** than any other piece of the Chess Game—a **magical feat**. Perhaps he considered that the **idea** to **empower** the Chess Queen (by some Iranian Man- or Woman-of-knowledge) responds to a **power** hidden in nature and the human brain; **something** he had been **unaware of**; and **something** that had allowed Pizarro to **trick** him. If **Atahualpa** reached the 2nd attention after learning chess, **he** might **perceive** that he could **trick his certain death** and **Pizarro** through the 3rd attention.

Some Chess books assign White an advantage for moving first (Watson, 2006, p. 23). Yet in my view the player that **uses best quantum neural computing** should **win**. Who **won** the chess game between **Pizarro** and **Atahualpa**? The hypothesis of the **complex nature** of the 2nd and 3rd attentions (Figures 11 and 12) might answer the question.

I will follow both mathematics and **Martin Luther’s beliefs** in my attempt to discover the secret of the **transformation** of the 2nd into the 3rd attention.

In the field of mathematics, I must deal first with circles in the analytic geometry co-discovered by the French René Descartes in the 17th century (Figure 11). Readers may look at the **map of a city** with its orientation North/South in the

vertical axis and East West in the horizontal axis. Surveyors¹ also call any such map a “Cartesian Plane.” The reason is that “Renatus Cartesius” (or the French René Descartes) devised it.

Now, **suppose** that Descartes went to Rome in 1620 and lodged in a hotel, at a long walking distance from the Coliseum, located on a north-east direction (Figure 11).

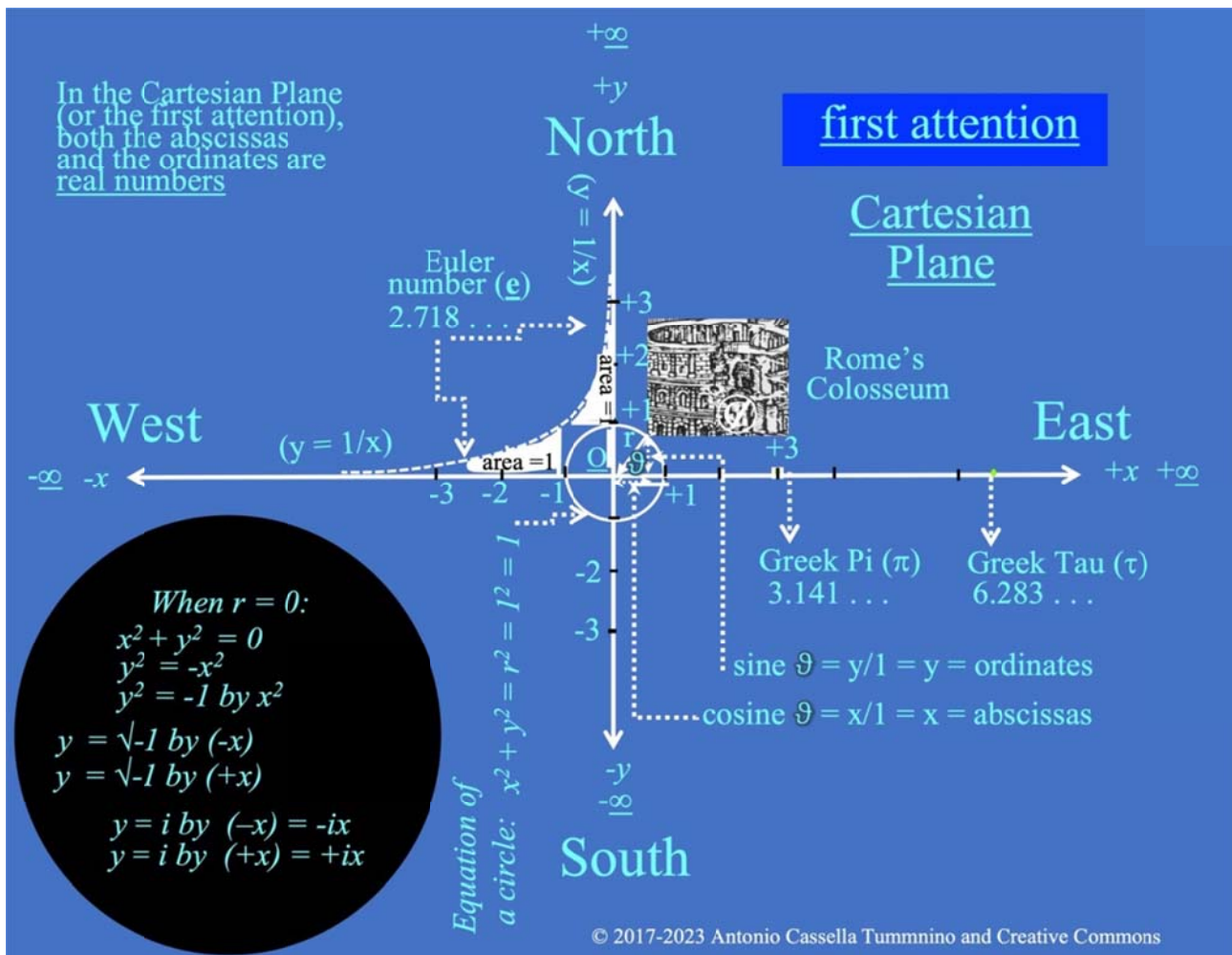


Figure 11. The Cartesian Plane and Analytic Geometry

Descartes might have known that if the western edge of the Coliseum were located on the circumference of a circle centered on the north-east door of his hotel, to reach that Roman amphitheater he would have to walk the distance “x” (the cosine of the angle “Greek theta”) East and the distance “y” (the sine of the angle “Greek theta”) toward North. Perhaps he imagined that the shortest aerial distance to the Coliseum from the North-Eastern door of his hotel was the radius “r” of the involved circle (Figure 11), which he equaled to “1.” But he could not **fly**!

As a co-inventor of Analytic Geometry (Boyer, 2004), Descartes knew that the equation of the unitary circle centered on the north-east door of his hotel was $x^2 + y^2 = r^2 = 1^2 = 1$. Since he was a **dreamer**, possibly he **imagined** that if the radius of that circle became zero, the Coliseum would **fly** where he was standing. The two roots of that equation $x^2 + y^2 = 0$ would be (the black circle on the lower left of Figure 11): $y = -x \sqrt{-1}$ and $y = +x \sqrt{-1}$.

Descartes *could not find the square root of -1* in either the North/South or the East/West crossing perpendiculars of his Cartesian Plane, although the real numbers of any Cartesian plane include strange fellows, as are:

- **Greek pi** (π , or 3.141 . . . with infinite digits, or the ratio of any circumference to its diameter),
- the **double** of Greek pi (2π , called **Greek tau** [τ], 6.283 . . . , also with infinite digits), and
- a number related to the unit value of the area between the line corresponding to the equation $y = 1/x$ and the Cartesian axes (Figure 11), called today “Euler number” (“e,” or 2.718 . . . with infinite digits).

¹ I was one, while pursuing a nocturnal BSc in Philosophy in Maracaibo’s LUZ (La Universidad del Zulia).

Descartes may have **thought** that $\sqrt{-1}$ was **imaginary**, a concept others expressed with the symbol “i.” The two solutions to Descartes’s fatigue, then, would be: $y = +ix$ and $y = -ix$. (The latter solution does not apply to Descartes since there is only one Coliseum in Rome). Possibly, he rented a coach to keep his shoes clean from horse manure (the “mastranto” of the bare-footed Venezuelan “riders/llaneros”) and he rented another coach to return clean to his hotel.

Descartes’s antics in Rome might help us find a few reasons to support the **essential role** played by the 2nd attention in the **Transubstantiation** viewed by Luther. Luther’s **view** contrasted with the view of the Roman Church. By **reading** the Gospels, Luther may have thought that **Christ** must **exist in separate places at once** (**entanglement** in quantum physics) while **sharing the same space** (quantum **superposition**) with his devotees. Luther embedded **Christ** in “**omnipresence and consubstantiation.**” His bells, though displeased Rome on two reasons:

- a) Rival princes to the Roman pope would prefer the full sums offered by Christians instead of a partial fee, and
- b) Luther’s “**omnipresence**” and “**consubstantiation**” collided with the “Transubstantiation” of St. Thomas Aquinas.

The fact that Luther chose October 31 (the day of all **witches**) in 1517 to object the Roman sales of indulgences, that **witches fly**, and that **defeating gravity** implies **infinite speed** and **nothingness** provoked Luther’s excommunication in 1520. Certainly, whoever **gets into the shoes of others without leaving his own shoes**, validates the **infinite speed** that allows a person to **exist at once** on the separate sides of an abyss, which is equivalent to **flying** over it.

In the Early Modern Period (1450 to 1750), the invisibility of human **lying** in **quantum neural computing** cut about 50,000 alleged witches in Europe (Rapley, 1998, p. 99). The Eastern Orthodox Church and Spanish Jesuits did not follow suit. Spain and Russia possibly realized that **feminine daydreaming** feeds the creative and social facet of **lying**, the **strange power** shown by Great Pretenders. Yet Pizarro was only a **liar** (2nd) and not a **Great Pretender** (3rd)

Beyond Pizarro’s **lies**, Christ’s act of breaking a piece of bread can be compared to breaking a stalagmite or to sinking a soldier’s lance into an inimical soldier; and His offer of **wine**, to the **gracious flexibility** of the drop of **water** that **creates** a stalagmite, the **grace** of the **mother** that raises her child, and even the **grace** of the **mother** that raises the child of another woman.

Yet before Luther, the alliance of **bread and wine** (or of sterile recall with lying) in loving hearts was ignored except in Scandinavia and Sacred Texts. Christ’s advised alliance of rigid-bread with flexible-wine (**Omnipresence** and **Consubstantiation**), though, agrees with Moses’s sewing his Thummim and Urim stones on Aaron’s ephod (mantle)—kept in the Ark of the Covenant—at the height of Aaron’s heart. Did Christ muse on Moses’s “**Pentateuch**”?

Eighteen years of Christ’s life (from the age of 12 to the age of 30 years) are left blank in the Gospels. Maybe Christ returned to Egypt after his twelfth birthday. After all, the priests of the Egyptian “House of Thoth,” pharaohs, and all princes of Egypt (including Moses) prized the **crossing** of the crook with the **flail**, or of classical with **quantum** computing. From Egypt, Christ could have traveled to Britain, Greece, or India. Did He, instead, meditate on **Moses** while meeting the Essenes in Palestine and the Therapeutae near Alexandria?

The **appearance** of the resurrected Christ before the house of the Apostles **out of nowhere** before **crossing** its stone walls, while the inlet door was blocked inside (John 20:26, KJV), values the **flexible principles of quantum computing** (Moses’s Urim) by which (Figure 4):

- a) “**the same thing can be found in separate places simultaneously**” (Luther’s **omnipresence** and **Entanglement** in quantum physics) and
- b) “**two separate things may share the same space at the same time**” (Luther’s **consubstantiation** and quantum **Superposition**).

After courting **infinity** (2nd) to **reach** the locked house of His frightened Apostles and **nothingness** (2nd) to **enter** it, Jesus seized one finger of the **doubting Thomas** and trusted it into His side-wound (1st), caused by a Roman soldier who did not **know** what he was doing. Christ’s grabbing (1st) of Thomas’s finger values the **rigid principles of classical computing** (Moses’s Thummim) by which:

- a) “**two separate things cannot share the same space at the same time**” (akin to Pauli’s Exclusion Principle) and
- b) “**the same thing cannot be found in separate places simultaneously**” (akin to Einstein’s finite speed of light).

I once asked a Catholic minister about Christ’s ability to **cross** a stone wall. His answer was that there is no way of commenting on the **power** of the **resurrected Christ**. *But I knew that Jesus revisited his Nazareth home-town in life* (Luke 4:14-30, KJV).

On that occasion, Nazareth’s Jewish listeners to His reading of Isaiah were angered by the Messianic attitude of a man whom they believed was the son of a humble carpenter. After Jesus said that although there were many lepers in Israel, Eliseus the prophet cured only Naaman the Syrian, all the attendants to the synagogue service that Saturday “**rose up**, and **thrust him out** of the city, and **led him** unto the brow of the **hill** whereon their city was built, that they may **cast him**

down headlong (1st). But He, **passing through** (2nd) the mist of them, **went his way**” (3rd) (Luke 4:29-30, KJV).

On my recalling that story, a Catholic **preacher** insisted that Jesus did not perform a **miracle** in Nazareth. Luther would object to that **reading**, since **passing through** people seized by the **rigidity** of **classical computing** makes a true **miracle**, whether Christ did **pass through (consubstantiation)** the concitizens of His family, or He just **extinguished** the **killing disposition** of most people there (after paying homage to **omnipresence**).

Omnipresence and **Consubstantiation** (or infinity and nothingness) permeate Prince Hamlet’s words “**to be or not to be**.” Because he is neither **autistic** nor **mad**, Hamlet’s **spirit** cannot accept Claudius as an **innocent stepfather**, nor can he kill him out of **hatred**. In **finding out the truth** about who killed his father (King Hamlet), the **doubting** Prince Hamlet **lies** about his mental **stability**. By contrast, his uncle **Claudius** (the real assassin) **lies** and tries to kill Hamlet because he wants to **hide the truth**, while **clinging** to kingly and marital **power**. Why do we have **lying** and **lying**?

The actor who **plays** Hamlet may **cling** to Omnipresence and Consubstantiation while he **acts**, since he is **concurrently** himself and Prince Hamlet. But he must **return** to his **real self** after that **tragedy** is **over**. If he would **return** to his home dressed as Hamlet while **pretending** to be the prince of Denmark, his wife would send him with reason to a **madhouse**.

Comparably, if spectators **believed** an **actor** who extends his **playing role** into **everyday reality**, then, they risk **entering chaos**, **persistent inflation**, and even **WWIII**. **Actors** can’t **have their cake and eat it too**. They show their **ambition** when they hug a **lethal tryzub** that does not reflect the **social aims** of the **tryzub** of **Jaroslav the Wise** (Cassella, 2023).

The **plasticity** of **quantum computing** is not **chaotic** “per se.” **Bridges** crossing valleys and rivers match circular **cromlechs** and Stonehenge’s circle of **trilithons**, but what used to be the **3rd** when new may **return** even to a chaotic **1st** attention. Thus, the **horizontal beam** in any **trilithon** (dolmen) of Stonehenge **marries** the **repetition** of any **arch joining** two columns in the **Coliseum** of Rome and **becomes** the **inlet** to the Bank of England in London.

*What’s important, then, is the **genial use** of **quantum computing** to **serve, save, please, or educate** others, as **did** Neanderthals, the hunter-gatherers that **created** Göbekli Tepe, **Stonehenge’s** builders, most pharaohs of the **Egyptian IV dynasty**, the Chinese **Yellow Emperor**, the writers of the **Vedas**, **Moses**, **Quetzalcoatl**, the **Buddha** “Tathā-āgata,” **Heraclitus**, **Christ**, **Bochica**, and **Muhammad** when the Prophet went to the **Furthest Mosque** before **returning** to the **Black Stone** in Mecca. Unlike **Hernando de Soto** (the only Spanish Captain who **befriended** the imprisoned Atahualpa), **Cortés** and **Pizarro** **used** their **quantum computing power** to **offer an easier life** to descendants that could not survive forever.*

Quantum computing can be used as a **saving double** in front of a **green traffic light** to avoid hitting an opposite driver who will **disrespect** his red light. Truly, the **ghostly double** that **travels (omnipresence)** in our **car** and in the opposite **car** of a boozy fellow would certainly survive the **virtual crossing (consubstantiation)** of the two **virtual cars**. Upon **returning** to our **brain**, the **infinite speed** and **nothingness (2)** of our immaterial **spirit (3)** might **recommend** us to **press the brake instead of pressing the accelerator**.

Why does the **2nd attention** go and **return** with the vest of the **3rd attention**?

Consider, for example, the parable of the Good Samaritan, which in my presumption gave a better **voice** to **Martin Luther** in the 16th century and to **Martin Luther King** four centuries later. Luke (10:30-34, KJV) wrote,

“ . . . A certain man came down from Jerusalem to Jericho, and fell among thieves, which stripped him of his raiment, and **wounded** him, and departed, leaving him half dead. And by chance, there came down a **certain priest** that way: and when he saw him, he **passed by on the other side**. And likewise, a **Levite**, when he was at the place, came and looked on him, and **passed by on the other side**. But a certain **Samaritan**, as he journeyed, came where he was: and when he **saw** him, he had **compassion** on him, and **went** to him, and **bound up** his wounds, pouring in oil and wine, and set him on his own beast, and brought him to an inn, and **took care** of him.”

Martin Luther **saw** that that Samaritan used **infinite speed** and **nothingness** (or **quantum computing** in his brain) to **continue existing while** he **entered** the body of the wounded fellow (“**put yourself in my shoes**” we would say).

Only the **magical** and **feminine power** of the **2nd attention** could empower the **3rd attention** of the Samaritan.

We are now ready to **unveil** the **mystery of the second attention** by exploring an assumed meaning of **complex numbers** (“z”) in Figure 12.

E.g., the **devil might be here and there** (π in radians, the **superior half-circle**, or the **2nd attention**) but not **everywhere** (“**2 π** ,” “**τ**,” the **circle**, or the **3rd attention**). **Mary**, or **Coatlaxopeuh** (and not the **devil**) offers a **solution** to a **problem**.

The mathematician **Leonard Euler** **saw** that **Descartes’s vertical axis** could be replaced with an **imaginary axis** (Figure 12; Penrose, 2007), the **tricky action** that **changed** the **Cartesian Plane** into the **Complex Plane**.

Within **complex numbers**, **Coatlaxopeuh** is in **Muhammad Al-Mir’aj** and in his **Al-Isra!** Wow!

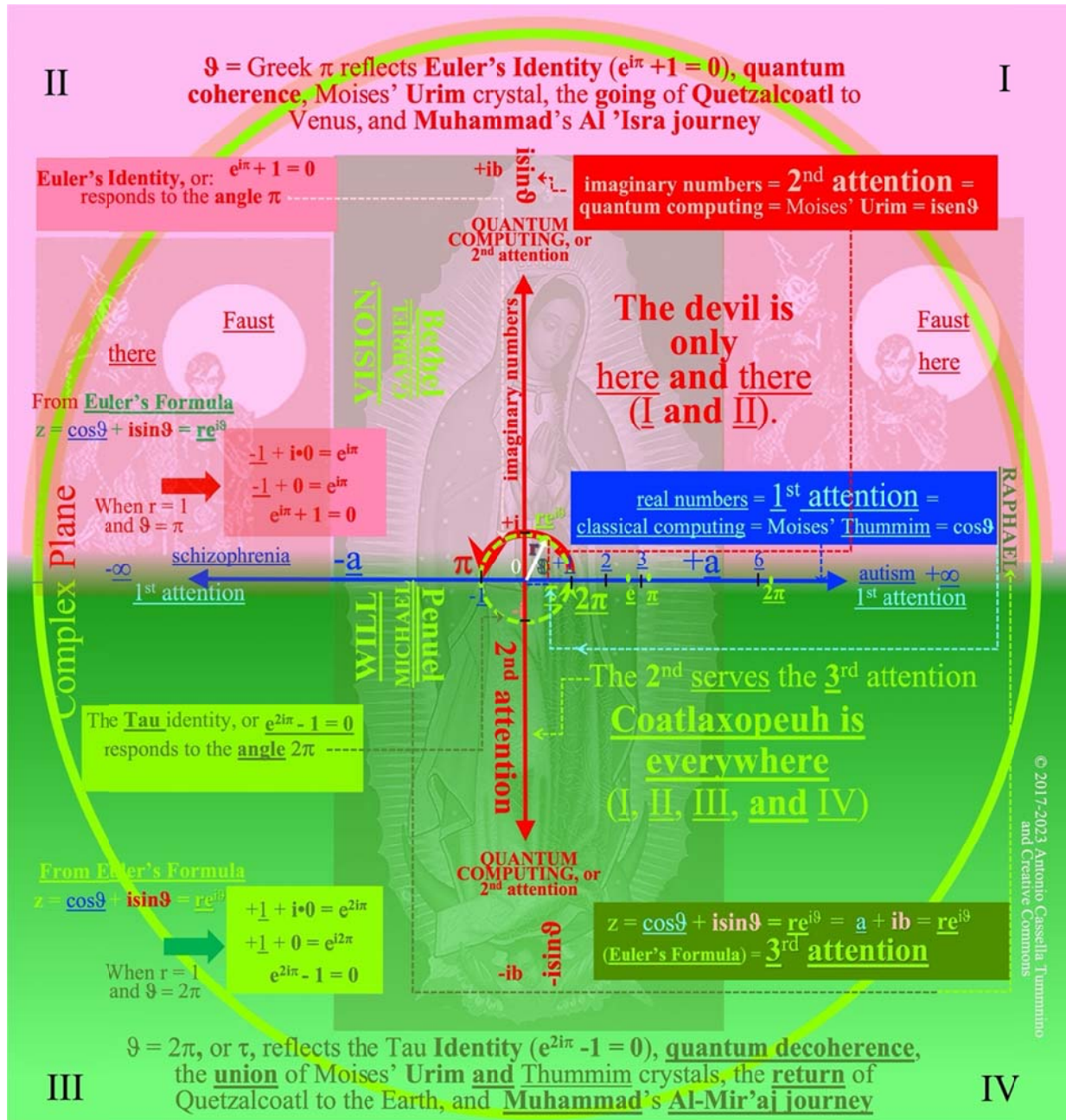


Figure 12. The complex Plane

Euler followed Descartes in making the radius of the central circle equal to 1 ($r = 1$). The *cosine* of the central theta (θ) angle (the ratio of the adjacent catheti to the hypotenuse [“r”]) is just “a,” or any number of the 1st attention; and its *sine* (the ratio of the opposite catheti to the hypotenuse [“r”]) is “ib,” or any unit of the 2nd attention. In the **complex plane** (z) all horizontal distances are *cosines* of the angle theta and all vertical ones are *i•sines* of theta. If abscissas/cosines were called “a”; and the ordinates/*i•sines* “ib,” any point of the Complex Plane would match the equation $z = \underline{a} + \underline{ib}$. Euler **found** that that equation equals “ $e^{i\theta}$,” which results in *Euler’s Formula*, $z = \underline{\cos\theta} + \underline{i\sin\theta} = e^{i\theta}$.

The devil and Coatlxopeuh occupy the same space at the same time in the top semi-circle of the Complex Plane. The devil is here and there (Quadrants I and II); *but not everywhere* (Quadrants I, II, III, and IV) as **is Coatlxopeuh** or **Coatlxopeuh**. Any person is a point of the **complex plane**, although no one knows exactly what **complex numbers** (z) signify or what **Euler’s formula** can do. In sum, there cannot be a **Transubstantiation** without a **Consubstantiation**.

I hypothesize that **complex numbers echo the kind and the ruthless roots of nature**, of **the human mind**, or a 3rd attention that includes the 2nd and the 1st one. Could a **sabretooth tiger befriend travelers** instead of **eating** them? In replacing in 2550 BCE with a **pharaoh’s head** (1st) the **cat-like head** (2nd) of Giza’s first Sphinx (built around 10,000

BCE, Cassella, 2018b) **Pharaoh Khafre** would **join Walt Disney** by answering “yes!” Did the **elegance** of Disney and Khafre use **infinite speed** in the **2nd attention to remember the past and the future**? Figure 12 suggests that the **union** of the **1st** with the **2nd attention**, or the **3rd attention in complex numbers** (z), includes the **memory of the past and of the future**, the **ruthlessness** of Kali, and the **kindness** of Christ.

The main horizontal axis of the complex plane would represent the **classical 1st attention**, with **autism** coinciding with positive real numbers (on the right of Figure 12); and **folly**, with negative numbers on the left. **Zero** separates **autism** from **schizophrenia**, while **being autistic** and **schizophrenic simultaneously** stands for the **infinite speed** in the **imaginary vertical axis**. *Without that axis, artistic masterpieces, elegance, and complex numbers* (z) *would vanish*.

The cognitive limitations of **autistics** and the fact that most of us can **decide** whether to **stop** or **accelerate** in front of a **yellow light** prove that *the devil in us makes a great innate gift*. Yet we must learn to use it **graciously** in **benefiting** others; instead of **using it** solely to benefit **mortal heirs** and especially **bankers**, as **did** Francisco Pizarro and the “famous 13.” Readers who recall the story of Jacob/Israel may **realize**, however, that traveling from a **vision** guided by **Gabriel** to a **will** proved by **Michael** and to a final evaluation provided by **Raphael** is not an easy cake, since **Jacob’s shrewdness** had to **compete** with his devilish **father-in-law (Laban)**.

In quadrant I of Figure 12, Jacob **used** his innate **2nd attention** to **betray** his twin brother **Esau** and to try to betray his blind and **savvy** father Isaac. **Isaac knew** that the hairless and **devilish Jacob** could **become** a **brilliant leader**, whereas the **artless and hairy Esau** would never **do**. He **blessed Jacob**, then, because he realized the latter was a Great Pretender.

At Bethel, Jacob **dreamed** a Vision of nature’s **nature**, which I **attribute** to the Archangel **Gabriel**. That Vision helped Jacob **compete** with the **devil** that animated his father-in-law **Laban**. Jacob and Laban became both very rich through Jacob’s **wily work**—a fact that Laban conceded to God in his dreams, and the reason why the Archangel **Michael** opened the door of the **bridge of decoherence** to **Jacob/Israel** at the inlet of quadrant III. Michael blessed the decided fighting spirit and patience of Israel (**will**), who also won the ticket to a **new world** when the Archangel **Raphael** opened the door of his **return** to a re-created **1st attention**.

My contention assumes that the three archangels who visited and saved **Abraham**, the father of **Isaac** and **Ishmael**, can be replaced by the **Queen of the Cosmos** that combines the power of the Rook with the power of the Bishop in Chess. *The angle Greek π (or the devil) corresponds in radians to the top half circle in Figure 12, whereas 2π makes the full circle (Coatlaxopeuh, Kali, etc.) that returns to its inception.*

Jacob’s dream of **angels going up (quantum coherence)** and **coming down (quantum decoherence)** on the ramp of Figure 4 coincides with the message spread by **complex numbers** (z) in Figure 12 and by legends of a **going** and a **returning** Quetzalcoatl, a **going** and a **returning** “Tathā-āgata” Buddha, and a **going** and a **returning** Muhammad on **Buraq** (the infinite speed of quantum computing).

The Coatlxopeuh entity (the Virgin of Guadalupe) depicted in Figures 4, 8, and 12, who manifested herself to the Nahuatl-speaker Juan Diego on the Mexican Tepeyac Hill of Tenochtitlan (Mexico City), **belongs** to the four quadrants of Figure 12, as **do complex numbers** (z). The apparitions of Coatlxopeuh respond to **remembering the future**. **Heroes/heroines** that **acts beforehand** should be appreciated. Ventures that cannot **predict the future** go bankrupt.

So, the first mystery solved by the Complex Plane is that Muhammad’s **Al-Mir’aj journey** includes his **Al-Isra voyage**. And that **heroes/heroines** may **move** in **solving problems** ahead of most humans blinded by their **incapacity to lie** (Esau) or by a **lying enslaved** by the **ambition to win a war**, to **protect their assets** and relatives, and to **stay in power**.

The second mystery solved in Figure 12 is the **line** that separates quadrants III and IV. That line of negative **imaginary numbers** seems to belong to the **devil**. But the fact that **Coatlaxopeuh** includes the 360 degrees of the Tau Identity and the organization of **complex numbers** (z) allow positing that that **vertical line** does not belong to the **devil**. As Allah told **Laban** in a dream: *He and his hellish cohorts (his sons or other devils) should never intrude into the 3rd attention.*

“Allah Kabir” said my Egyptian father—meaning that Allah transcends time and decides through the **grace** of Coatlxopeuh **who** will join him/her near the **tree of life** and **who** will face **madness** (-1) by losing both the positive side of **1st attention** ($+1$) and the **2nd attention**. Adam and Eve lost both **Paradise** and the **shadow** of the **Tree-of-Good-and-evil**. Allah knew that beforehand because he was both **Adam and Eve**. Genesis (1.27, KJV) says,

“So God created man in His own image, in the image of God created He him; male and female created He them.”

The translation achieved by KJV a few centuries ago IS FAULTY. Robert Alter (1996, p. 5) explains that “Adam” is not a proper name in Biblical Hebrew; the term simply points to the first **human**. After separating **Eve**, or **feminine quantum computing**, the residual **masculine classical computing** became **visible**.

Ergo, there can be no 3rd attention without the 2nd attention. Autistics who lack the 2nd attention, or the feminine aspect of God, cannot lie (Kanner, 1943). Hence, should we pick up a simpleton (as Esau was) or a repented liar to

save our grandchildren from chaotic climate avalanches, the use of WMDs in WWII, and mental degeneration?

Pope Francis, a former head of the Jesuit Collegio Romano in Rome, well versed in the **nonlocality** of quantum physics, certainly knows that the opinion of Father Suárez in the late 16th century about the inconsistency of the **nothingness** preached by Galileo Galilei in his “Il Saggiatore” collides with the existence of **dark matter**. Pope Francis also knows that the **infinite speed** appreciated by Martin Luther makes **dark energy**.

Dark energy and dark matter animate the Yin aspect of nature, the witches that Spanish Jesuits and Orthodox Christians never burned, and Hermione, the witch who sustains Harry Potter against Lord Voldemort.

Figure 12 implies the thinking tool I call “logos heuristics” (or “Λ”). That tool may be applied to **advance** any scientific discipline, **read** any Sacred Text, **understand** any philosophy, **support** any political decision, and **solve** any **problem**, within an avowal that would be more outrageous than the Aztec “Chapulín Colorado” if “Λ” were falsified.

For example, if we apply Figure 12 to cosmology, we must conclude that quadrant I is made by our first 8.8 billion years after the Big-Bang, in a coasting expansion of both a universe of matter and an anti-universe of anti-matter (Hamlet’s to be or not to be). Now, at 13.8 billion years from the Big-Bang, we are in quadrant II and an accelerated expansion of the universe. We should decide personally in Quadrant II whether we want to add the name “Israel” (**3**) to our **name**. Figure 12 implies that in 3.8 billion years both matter and anti-matter will enter a faster contraction for 8.8 billion years (quadrant III) and a coasting contraction for another period (quadrant IV) of 8.8 billion years, until the **Black Holes** of two Big-Crunches will join two **White Holes** into a new **Big-Bang**. (Cassella, 2019b).

Within language, the horizontal axis of the 1st attention would make grammar; quadrants I and II, **pragmatics**, **metaphor**, **jokes**, and **pronouns**; while quadrants III and IV would hail **irony** and **creative discourse** (Could we grasp a **good book** [the **3rd attention**] without **fusing grammar** [the **1st attention**] with **pragmatics**? [Cassella, 2019c]).

Euler’s formula tells us that if we replace the angle theta with π , the resulting identity (Figure 12) would be $e^{i\pi} + 1 = 0$. Although Euler did not derive it, that result is called *Euler’s identity*. Richard Feynman (1985) saw **Euler Identity** as the most beautiful formula of mathematics, since it relates 5 fundamental symbols:

- Euler number (“e”),
- the imaginary unit (“i”),
- Greek pi (π),
- the unity behind any measure (1),
- and “zero.”

Feynman forgot the **full circle** valued by most pharaohs of the Fourth Dynasty (Sneferu, Khufu, Djedefre, Khafre, and Menkaure), who exalted the number **6.28** (**2 π**) in *dividing the perimeter of the base of their different pyramids by their height*. Indeed, replacing the angle theta with **2 π** in Euler’s formula leads to an identity that I call “**Tau Identity**.”

I found the **Tau Identity** ($e^{i\tau} - 1 = 0$ or $e^{i2\pi} - 1 = 0$ in Figure 12) by replacing the angle theta in Euler Formula with the value “2 π ” (or “ τ ”) that *corresponds to a whole circle*, quantum **decoherence**, the **return** of the Mesoamerican demigod Quetzalcoatl, and Muhammad’s **Al-Mir’aj journey**. Above all, the **Tau Identity** includes **plurality** (number 2) and makes the **uniplurality** that **crosses** the **crook** with the **flail** in Ramses II / Osiris.

Before dealing with the Conclusion of this article I will address Leonardo da Vinci’s Vision of the organization of the **3rd attention** in Figure 13. Figure 13 illustrates Leonardo’s **wisdom** in his “Fight for the Standard,” which can be compared to Martin Luther’s **vision** of the essentiality of the **2nd attention** in reaching the **3rd attention**.

There exist documents (Cassella, 2017) proving that the “Fight for the Standard” survived Leonardo’s mistake of using imported Calcium Carbonate near the roof of the original Hall of the 500. Leonardo did use Volterra gypsum in the surviving part of the “Battle of Anghiari.” He returned to Milan in 1506, under the protection of the King of France, (Louis XII) and died in 1519, two years before Martin Luther’s excommunication. To uncover his **vision** let us review the clues given in Figure 13:

- Clue 1 **proposes** that the line suggested by the words “**cerca trova**” at the top right of Vasari’s “Battle of Marciano” ends in the **red hat** at its lower left corner. At the side of that red hat, Vasari painted an iron bar, which lies hidden in the Louvre drawing wrongly attributed to the Flemish painter Pieter Paul Rubens.
- In Clue 2, the center of the “Battle of Marciano” lies 7.035 meters above the center of the “Fight for the Standard.”
- In Clue 3, the **same vertical line joins** the open mouth of the screaming aid in Leonardo’s “Fight for the Standard,” the meeting of the heads of the two Roman generals (Ludovico Trevisan and Micheletto Attendolo), the screaming Siena soldier on the ground of the “Battle of Marciano,” and the tip of the **dark banner** behind the **banner** that welcomes the words “cerca trova.”

- In Clue 4, the frontal left elbow of Leonardo’s rearing horse corresponds to the frontal left elbow of Vasari’s rearing horse.
- In Clue 5, the rear left knee of Leonardo’s rearing horse corresponds to the rear left knee of Vasari’s rearing horse, and
- in Clue 6, the plaster made with calcium carbonate and the one made with calcium sulfate (Volterra gypsum) are separated at 6.26 meters from the floor of the Hall of the 500.

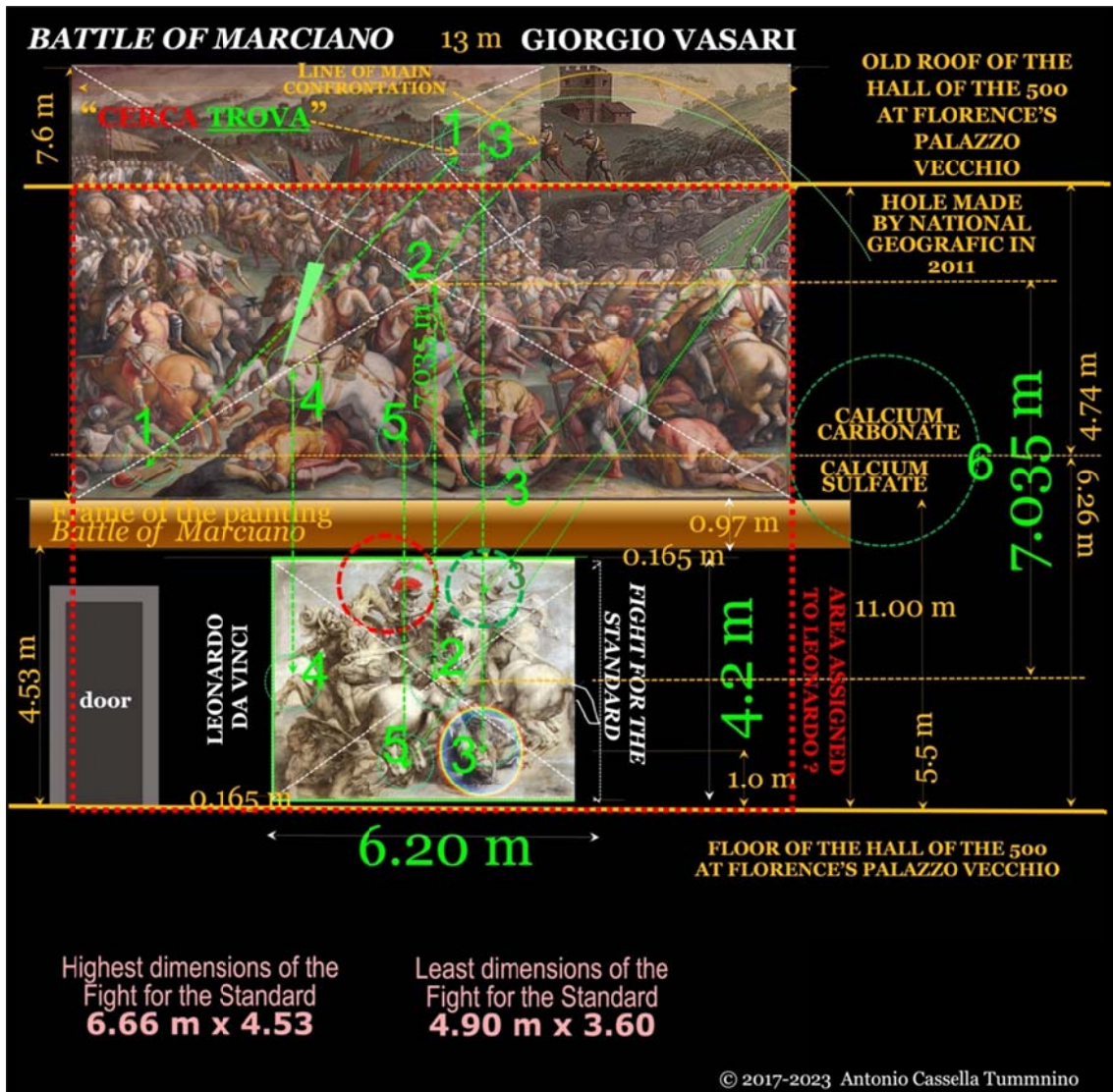


Figure 13. Six leading clues in the hypothetical location of Leonardo’s “Fight for the Standard.”

We must reflect on the fact that in his book of 1568, Giorgio Vasari repeated (7) his 1550 message on the "Fight for the Standard" by Leonardo. By citing a man with a “big red hat,” Vasari admitted indirectly that he had seen Leonardo’s center piece, since the original cartoon was not colored (8). Other considerations are that . . .

- at the center of the “Battle of Marciano” there is a lonely soldier with a hat like the one worn by Niccolò Piccinino (9);
- the horses of Leonardo equal Vasari’s first line horses (10); and
- the tail of the Roman horse to the right cannot be flaccid, as Rubens painted it, but horizontal for about 40 centimeters more. A biting war horse will not keep its tail flaccid (11).

If the Uffizi Museum wanted to save the “Fight for the Standard” to secure the vision of future generations, it would test the previous eleven considerations. By exalting the action of Trevisan and Attendolo, Leonardo demonstrated that

he had a **good knowledge** of the **heroes/heroines** who decide to **save** their **friends and enemies**, their **relatives**, **strangers**, the **poor and the rich**, and anyone on board. Would **Wladimir Putin** and **Volodymyr Zelensky** qualify?

4. Conclusion

In its current Sixth Report (AR6),² the IPCC (International Panel on Climate Change) informs us that an increase of 1.5° C (degrees Celsius) of the surface temperature of Earth's atmosphere has occurred and that we should not surpass an increase of 2° C (recall the risk expressed by Figure 5). Seven years ago, however, the AR5 report by IPCC's scientists included a scenario (RCP 2.6) by which the atmospheric concentration of CO₂ (about 435 ppm at the end of 2023) would grow to 450 ppm by mid-century before its abatement to 430 ppm by the end of the 21st century.

Considering that more than 20 years ago a group of prominent scientists declared that *the number of humans on Earth and our consumption of energy per capita had grown too much*, the RCP 2.6 scenario seems unreasonable. A **good** scenario planning would follow a reasonable range of **options** suggested by the **2nd attention**, with an unknown **solution** among them. ("**Blessed** are thou among **women!**" said an angel to **Mary** [Luke 1:28, KJV]).

If Leonardo da Vinci **resuscitated**, he would not talk **too closely** to the **Secretary of the UN**. Unlike Leonardo, members of the United Nations ignore the **cognitive roots** of natural systems and of the human brain.

Leonardo and **Luther** demonstrated that the **3rd attention** cannot exist without the **1st** and the **2nd** attention; and that the **good use (3)** of the **2nd attention** may respond to its embracing **Coatlaxopeuh** and not the **devil**. Vasari too **knew** that.

At the right of the words "**CERCA TROVA**" (3 in Figure 13), Vasari **aligned** under the same **vertical** a darker **banner (quantum computing)**, the scream of a **laying and dying soldier** in his *Battle of Marciano*, the midline between the heads of **Trevisan** and **Attendolo**, and the scream of a **dying innocent tent rigger** beneath Leonardo's war horses.

Finding the center of the "Fight for the Standard," at 7.035 m under the center of Giorgio Vasari's "Battle of Marciano" in the Hall of the 500 at Florence's Palazzo Vecchio (Cassella, 2022b, 2023), will confirm the **alliance (3rd)** of **classical computing (1st attention)**, or the **fight** of Milan with Florence) with **quantum computing (2nd attention)**. His implicit advice seems to be that a **clever liar will choose both respect and lack of respect**.

Trusting a clever liar is better than trusting an autistic-like or a corrupt fellow, as old Isaac **knew** when he **blessed Jacob** and **scorned Esau**. Isaac's **knowledge** can be compared to **understanding** the drawing "Vitruvian Man" by Leonardo da Vinci (Figure 14) in the context of **Lord Voldemort's** impossibility to steal the **Philosopher's Stone** (Rowling, 1997) (**3rd attention**), which I relate to **Hermes Trismegistus's "Emerald Tablet"**. In the USA, the name of the English "Philosopher's Stone" in the first book by J. K. Rowling (1997) was changed to "**Sorcerer's Stone**," a name that in my view relates to the use of the **2nd attention** for ambitious purposes. **Pizarro**, for instance, got only the "**Sorcerer's Stone**," for he **sinned by converting his malevolent and ambitious lying** into real **gold**, without getting the **immortality** of **Hernando de Soto**.

Autistics cannot **sin**, **doubt**, **hope**, or **lie**. They **invert pronouns** (Kanner, 1943) because they **lack** Luther's **omnipresence/consubstantiation**, or the **2nd attention**. If they **understood** Luther, **liars** would accept **risk and suffering** in **saving** others and opting to a possible **immortality** through the **Philosopher's Stone**.

The **priest** and the **Levite** who bypassed the hurt traveler in the Gospels did not **invert pronouns**. They just **sided** with their **tempting self-interest**, as **did** the **deceptive Barberini cardinal and pope** who **judged** Galileo in Rome.

If today Roman cardinals **understood** Christ's **metaphorical words** in the Gospels, they would pair **Luther** to **St. Anthony of Padua** or to **St. Francis**.

Luther's bid that the **3rd attention** needs the **2nd** and the **1st** attentions seems true. Education only parted **Pizarro** from **Sainthood**.

Figure 14 reviews the meaning of the drawing "Vitruvian Man" by Leonardo da Vinci in the context of the impossibility experienced by **Lord Voldemort** of seizing the **Philosopher's Stone** that **Harry Potter** hides in his pockets. Obviously, **Harry knows** implicitly that he will **cross** Teotihuacan's Avenue of the Dead, emulating the **returning Quetzalcoatl**. Perhaps, J. K. Rowling, the writer of Harry Potter's books, had an inner knowledge of Harry Potter's **felicitous destiny**, by which the **final Harry Potter** (Rowling, 2007) was present in the initial **Harry Potter** (Rowling, 1997).

By comparing the **magic** of Harry Potter to the **magic** of Lord Voldemort, Figure 14 illustrates through the "**Vitruvian Man**" the Vision that allows nonautistics to **choose immortality** with the Tau Identity courted by **Coatlaxopeuh**.

To start, *imagine that you stand on the two benches of Figure 14 with your hands in line with the top or your head*.

² The IPCC issues its reports every seven years.

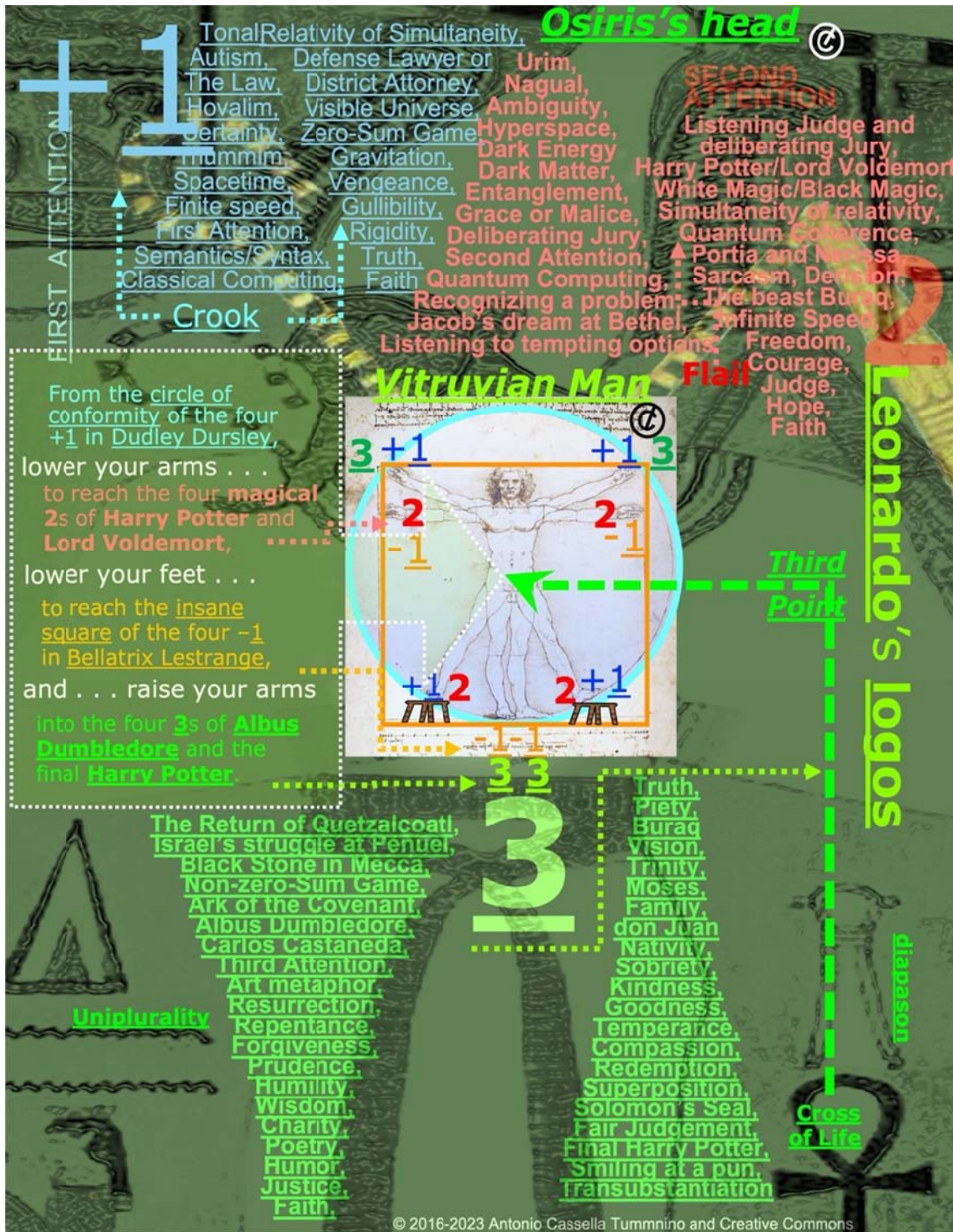


Figure 14. The Vitruvian Man and the three attentions (1, 2, 3) of nature's nature

- a) At that point you are at the center of the circle of the 1st attention in the four 1s of Dudley Dursley, imprisoned with open legs by the education of his muggle parents and by the cerebral muggle-side of his mind.
- b) If you lower your hands toward the four 2s, your body with horizontal hands and open legs will represent the **mountain** of the **2nd attention** cherished by **Coatlaxopeuh**, the **devil**, the **Pyramid of the Moon** at Teotihuacan, and the **dreaming side** of the mind lodged in the cerebellar microcomplexes that face the **problems** that rise in the visible world lit by the sun (the 1st attention). Your **freedom** to consider a **problem**, to **sin**, to **doubt**, to **hope**, and to **suspect** that the world around you is not what it seems to be is based on the **infinite speed** and **nothingness** of

quantum computing, as in Hamlet's "to be or not to be," **between order and chaos**. **Quantum computing** makes the **world of magic** pursued by the **good Harry Potter** and by his **betraying and lying** enemy **Lord Voldemort**.

- c) If at that point your open legs leave the two benches because you reunite your feet in the -1s, you will have become a **cross** in the **chaotic world** (**Planet Venus** for the Olmecs and the Maya) of the mad **Bellatrix Lestrange** and the only **world** that will accept **Lord Voldemort**, **Judas Iscariot**, and **Niccoló Piccinino** at the end of their failed story.
- d) You may feel lost in the **madness** of **Venus** (-1). But if you just **raise your hands**, the four **3s** and the **solution** to your **chaotic quandary** will appear **out of nowhere** in the semblance of **Dumbledore**, the **final Harry Potter**, the **Hamlet** that begs his friend Horatio to spread his **story**, and the **Eagle/hero/heroine/Christ** that resurrects into a new life after recommending his apostles to **personally join** the **rigidity of bread with** the **flexibility of wine**.

The four aspects hidden in the four arms and four legs of Leonardo's "Vitruvian Man" also tell us that only the **2nd attention** can become the **3rd attention**. Only the **Emerald Tablet** may reflect the **wisdom** of the god **Thoth** and of the Vice-Pharaoh **Asclepius** in the repented **heroes/heroines** that **accept** the risks of **lying** to **save others**.

Seeing that the **3rd** cannot stay without the **2nd** attention (Figure 12) may stop the fall of our **mental blindness** into chaotic **madness**, while allowing Ukraine, Russia, and the USA to **save** us all by reducing the temperature of the lower atmosphere and the spread of WMD, prevent our involution, and back non-human **predators**.

We are too many and consume too much energy (Malanima, 2014, p. 141). We can **prevent** a **heating avalanche** caused by free reproduction, economic growth, and the use of fossil resources. We can also **prevent** a **cooling avalanche** linked to the liberal use of the *Azolla super-fern*. While growing in an isolated Arctic Ocean, 50 Mya the *Azolla* absorbed enough CO₂ to cause the cool climate that fostered **Homo Heidelbergensis**, **Neanderthals**, and **Homo sapiens**. Accepting Luther's **views** might lead us to growing the *Azolla* **correctly**, perhaps in a Black Sea controlled by Russia, Turkey, and Ukraine.

Volodymyr Zelensky is not a **hero** yet. He may become one if his capacity to **forgive** and to understand the **tryzub** of **Yaroslav the Wise** allows him to reach the **seeing** of Jacob in Bethel and the **will** of Israel in Penuel. A similar comment applies to the President of the United States who decides to join the **hero** that **reads the future**—or the **past** only: **Vladimir Putin**. The **grace** of the **pervasive Coatloxopeuh** might have **illuminated** a **repented** and simultaneously **ruthless** Dr. Putin when he **chose** the "z" letter to symbolize his mission in life: **Saving** civilization and the Earth through **ruthlessness** and **kindness**!

Instead of cursing Putin, the EU should help Russia join NATO and develop technologies divorced from fossil fuels.. Saving our descendants from dying too soon implies a changing attitude in all the actors involved in aggravating global warming and the war between Russia and Ukraine. A shared **vision** may also lead to **empowering** Vladimir Putin, Volodymyr Zelensky, a U.S. representative, and an "ad hoc" **Cincinnatus** (man or woman) who would temporarily head the group, toward accomplishing their mission: **saving** civilization and our descendants from any of the three avalanches depicted in Figure 6. American weapons made the difference that led Russian and Ukrainian soldiers to defeat the Nazis in WWII. Luther's proposition that the **2nd attention** empowers the **3rd attention** should be accepted even by the people who disagreed with Franklin Delano Roosevelt's aim to **save** communist Russia in WWII.

There are four times more mothers crying their dead young in Russia than in Ukraine; yet all our young *might* die within the chaos that *might* sweep out civilization. Did Putin move alone and in time because he **remembered** the **past** only or **past and future**? Since God **walked with Martin Luther**, I consider that the latter preceded Dr. Putin in trying to **save** a world without **vision**. But the **kindness**, **altruism**, and **creativity** of "Ted" Kennedy, Walt Disney, Robert Burns, and Totò Cutugno may **change** in each person **philosophies** of **egoism**, **vengeance**, **conceit**, and **tyranny**.

The pre-Socratic **philosopher** Heraclitus of Ephesus wrote in his philosophical poem *On Nature* the aphorism that "we both **step and do not step** in the same **river**. We **are and are not**" (Fragment B49a in Cappelletti, 1972; translation from Spanish in question 21, Chapter 7 of Cassella, 2018a).

Post-modern **scientists** (Boyle et al., 2018) **see** that nature **goes beyond blind seeing** (Cassella, 2022a). Heraclitus, Shakespeare's "Hamlet," and Luther **imply** that **anti-matter** (e.g., **to be**) **sustains matter** (**not to be**) through **dark energy** (**omnipresence**) and **dark matter** (**consubstantiation**). **Whether** I am **right or wrong** in pinpointing the location of the "Fight for the Standard", **complex numbers** ("z") show (Figure 12) that the **3rd** needs the **2nd** and the **1st** attention.

Luther **recognized** indirectly the **infinite speed of dark energy** and the **void of dark matter** when he **criticized** Rome's political **ambitions**. In **valuing** Christ's short **allegories** and Heraclitus's **Logos** against the too **logical interpretations** of Parmenides and Aristoteles (Cerri, 1999; Fonterotta, 1998), the Roman Church could admit Luther's **sainthood** and **Vladimir Putin's fitness** to **save** civilization. **Hopefully**, **Coatloxopeuh** will help readers to **grasp** the **gist** of the Hindu **Trimurti**, of Buddha's last word "**appamāda**" ("**no-chaotic behavior**"), and of **Transubstantiation**.

Having no access to climate modeling by powerful computers, as do the scientists of the IPCC, I can only resort to my capacity to gather natural clues and my research on the cognitive limitations of autism. I would be very happy that my logos heuristics and the doubts I expressed through Figure 5 were falsified.

Acknowledgements

I thank my wife Ligia Josefina Uribe and my five sons.

About the author

Placing the words “Antonio Cassella” in the author’s space at Amazon will generate a list of his books, while the website researchautism.com also allows the free downloading of Antonio’s documentaries and articles. Antonio Cassella Tummino (changed to “Tummino” in Venezuela) was born in Addis-Ababa (Ethiopia) in 1940. He had his primary education in Italy; and high-school, in both Italy and Venezuela. In 1965 he obtained from LUZ-Maracaibo a *BSc in Petroleum Engineering*. For 17 years Antonio developed oil fields in the bay of Maracaibo with Creole (a subsidiary of Esso/ExxonMobil), Lagoven, and PDVSA (Petróleos de Venezuela). In 1976, he worked with EPRCO (Exxon Production Research) in Houston; and with Strategic Planning of PDVSA between 1983 and 1993.

From 1994 to 1997 he was a scientist at MIT-CEEPR (Center for Energy and Environmental Policy Research) in Cambridge (MA). His research at MIT led to two scenarios of the global growth of population, energy, and the economy; i.e., until 2060 (Cassella, 2008). Antonio was trained about Zen in Maracaibo (Venezuela) by Yves Carouget (1960-1965) and about the roots of **AIKIDO** in Ciudad Ojeda (State of Zulia, Venezuela) by Dr. Venceslao Barignani (1981-1986).

In June 1997, his **exploration** of the **cognition failed in autism**, of the genesis of **language**, and of **creative intelligence** (lost in both **autism** and **schizophrenia**) led to a *master’s degree in Psychology*, the *Dean’s List*, the *Thomas Small Prize*, and the *Award for Outstanding ALM Thesis in the Area of Natural and Human Sciences* from Harvard University. In 2001 Antonio Cassella received from Universidad Nacional Experimental Simón Rodríguez (UNESR) in Caracas a *doctoral degree of Research and Teaching in Sciences of Education* under a *Summa Cum Laude* trajectory. Senator Edward Kennedy implicitly agreed with Antonio’s aim of saving civilization from climate change and terrorism. As shown in English, Spanish, and Italian at researchautism.com, Research Autism LLC has published 12 free films (15 minutes each) about the logos heuristics and six on Leonardo’s *Fight for the Standard*. The new links are as follows:

Logos Heuristics	(A) https://youtu.be/DVHGUsVSuow	(B) https://youtu.be/HotEs8wLcS0
Logos Heuristics	(C) https://youtu.be/cGFYs5hZMc0	(D) https://youtu.be/i4Mc4hyWsgw
Fight for the Standard	(A) https://youtu.be/PZUe3ELyYyg	(B) https://youtu.be/et8I3ExEazU
Heurística logos	(A) https://youtu.be/pJrrHoNs044	(B) https://youtu.be/_tz4dQAq7_o
Heurística logos	(C) https://youtu.be/ER6CM1LVIX4	(D) https://youtu.be/3SmsX3P2z6w
Lucha por el Estandarte	(A) https://youtu.be/maq8Qx8kDV8	(B) https://youtu.be/yxnKms3HcGQ
Eurística logos	(A) https://youtu.be/M45zQDLA_tk	(B) https://youtu.be/xA8rxjEp1_I
Eurística logos	(C) https://youtu.be/2OrS4UyBEbg	(D) https://youtu.be/QeestlY-fEw
Lotta per lo Stendardo	(A) https://youtu.be/vv6eiCUB4qw	(B) https://youtu.be/dtRnue7_0Do

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