BACK TO ANTHROPOCOSMOS

Francis M. Sanchez

Two ancient paradigms are re-established: that of the perfect, aesthetic Cosmos, and that of Solanthropy: the solitude of the Human in the Universe. The invariant cosmological quantities of the holographic steady-state model correlate with human parameters in a multitude of ways. Musical harmony plays a central role, as do the parameters of the Earth and the Solar System. The residual probability for the existence of another civilization is infinitesimal. This article uses results from https://vixra.org/abs/2401.0133 which rehabilitates string theory.

The international system of units leads to a harmful separation between engineers and theorists. In particular, electrical units are useless, because electrical charge is an integer multiple (quantum number) of a pure number. So, the basic conceptual analysis (awkwardly called "dimensional") concerns only the intuitive mechanical trilogy Mass, Length, Time. Thus, in cosmology, we must first calculate what corresponds to three universal constants, excluding the speed of light c, which is far too slow to ensure cosmic coherence.

In the standard triplet of universal constants $G, c, \hbar$, which defines the Planck mass, Planck length and Planck time (the last two constituting the "Planck wall"), the first choice is to replace c by the geometric mean mass of the 3 main particles of atomic physics (electron, proton, neutron), and calculate a length, since this is

what is actually measured in the Hubble-Lemaître law of galaxy recession. This gives half of 13.8 billion light-years (see French wikipedia, "dimensional analysis") which corresponds to the "Hubble constant" 70.8 (km/s)/Megaparsec.

Note that the withdrawal of $\hbar$ is specific to gravitation, while that of G characterizes quantum physics. Alongside these two established pillars, it is therefore logical to examine the third pillar, the withdrawal of c, which no theorist has considered, a sign of the general devolution of scientific thought.

This invariable length, calculated in the first three minutes of the 1997 sabbatical year (Univ. Paris 11), is now identified (2024) with the Hubble radius, reducing the "tension" on the "Hubble constant" between the official value 67.4, deduced from the optimization of 6 parameters, and the value 73 directly measured by supernovae. Other direct measurements favor instead the mean value 71, compatible with the 3-minute value above.

This length of 13.8 billion light-years is also the product by c of the characteristic time of standard cosmology, which can therefore no longer be considered as the "age of the Universe", but as the time constant of exponential recession, the unique parameter of the permanent cosmology of Bondi, Gold and Hoyle, which predicted the acceleration of recession. The officials therefore confused space and time at one point in their calculations. This mistake is common among theorists who write $c = 1$, inconsiderately equating length and time. Poincaré, the founder of 4D Relativity, expressly warned against this mistake.

The fact that the formula 3 minutes gives the half-radius of the

Universe implies that Planck's mass is exactly the geometric mean of the four elements that make up the three central atomic particles and the Universe, suggesting that the latter is on the same plane as these particles. *The Universe thus appears as a particle, which implies the existence of the Cosmos.*

In fact, the Electron-based Topological Axis, which is the union of 8 basic 2D-1D holographic relations, reveals the series 2,6,10,14,18,22,26,30. This is the Bott sequence characteristic of string theory, but nobody has seen that the 4 initial terms are the multiplicities of the Periodic Table (ending at 14 lanthanides and 14 actinides). For the special 26-dimension of bosonic strings, the Topological Axis gives $f(26) = e^{2^{6 + 1/2}}$ which identifies with the canonical force ratio in the hydrogen atom $\hbar c/G\, m_e\, m_p$, divided by the number 153 $((m_H - m_p)/m_e)$, to the nearest 0.14 ppm.

The Topological Axis thus confirms the value of *G* deduced from non-Doppler Kotov oscillation and compatible with BIPM measurements. Note that the official value is 1.5×10^{-4} too small. It was estimated on the basis of incompatible measurements, then confirmed by obviously circumstantial measurements. Indeed, because of the "publish or perish" pressure, many labs are content to "find" measurements already published.

The Topological Axis thus fully rehabilitates bosonic string theory, by associating its principal dimension 26 with the Universe, and dimension 30 with its wavelength, the Topon, which implies the biblical relationship $12 \times 153 = 1836$. The integers 22 and 14 correspond to the gauge bosons X and W: this leaves one place and one place only n = 6 for the Gluon, which thus acquires a non-

standard mass close to 17 times the mass of the electron (about the mass ratio Tau/Muon). The symmetry with gauge bosons is so obvious that *the Universe is identified as the terminal gauge boson of the Cosmos*.

This Topological Axis is based on the two correlations between large numbers identified by Weyl, and taken seriously by Eddington and Dirac. A third correlation involving the radiation background, due to Davies, was also taken into account. A fourth relation, due to Carr and Rees, involves the eighth power of the weak boson/electron mass ratio, which fits directly into the Topological Axis where any increase in the *n* dimension by four units corresponds to a squared rise.

Eddington deduced from the correlation of large numbers a simple statistical model that prefigured the 3-minute formula. What's more, in his Fundamental Theory, he predicted the existence of Tau, with a good estimate of its mass, 35 years before its surprising discovery. To do this, Eddington applied his non-standard proton-electron symmetry, we call "Hypersymmetry", confirmed by the holographic radius of Earth 3570 m. (Eq. 10). The appearance of Nombrol 3570 in Egypt is a complete mystery.

Unlike Eddington, Dirac accepted the initial Big Bang, which led him to vary the constant *G*. This was outside the scope of physics, as defined by Poincaré. This variation in *G* was refuted by terrestrial geology, as the oceans should have boiled long ago. In fact, the special properties of the Earth play a major role in Solanthropy.

Not only is the Universe a particle, but it is itself made up of a single particle, the electron, which sweeps through the Universe at tachyonic speed and, every other time, goes back in time, transforming itself into a positron. This is Wheeler's hypothesis, but it was challenged by Feynman, who observed that, on that basis, there should be as much matter as antimatter. It's appalling that these theorists didn't have the obvious intuition that matter is a matter-antimatter oscillation. Indeed, all it takes is one line of calculation (Eq. 39), to see that the "monoelectronic" Universe has an intermediate radius between the Hubble radius and the holic radius of the Universe, which is the reduced holographic radius of the Cosmos. What's more, it correlates directly, to within 10^{-8} (Eq. 70), with Kotov's tachyonic period below.

The "3-minute formula" implies that the critical cosmic condition, surprisingly observed around 2000, is not linked to inflation, that grotesque ad-hoc expedient used to explain the isotropy of the background. This isotropy is natural in permanent cosmology, but incompatible with the Initial Big Bang cosmology. In fact, this critical condition corresponds rather to a very simple relationship, which integrates the factor 2 above. It is the equalization of the diametral area of the visible Universe with Planck area as its unit (the Bekenstein-Hawking entropy of the visible Universe considered as a black hole) with the perimeter of the Universe, relative to its quantum wavelength, which pushes back the "Planck wall" by a factor of 10^{61}, shedding light on the enigma of vacuum energy. Indeed, considering this ratio as the tachyonic velocity ratio C/c, this means that the product of the mass of the Universe by C^2 is identified with vacuum energy. Holographic extension defines the radius of the Cosmos, in the same enormous ratio to the Universe (Eq. 17).

In fact, the Cosmos is defined by this procedure, but starting from the holic radius R_{hol}, considered as the reduced holographic radius of the Cosmos, Eq. 17.

Note that the ratio of the 3-minute length to the electron's Compton wavelength is close to $2^{127} - 1$, the famous "Lucas number", which for a long time was the largest prime number obtained without a computer. However, the ratio of the radius of the Cosmos to the electron's wavelength is close to 6^{127}. This means that the tachyonic ratio C/c is close to 3^{127}. But, unlike 2^{127}, mathematicians have no way of identifying this number. Another extraordinary property of the holographic Cosmos is that the ratio of its volume to that of the hydrogen atom is close to 137^{137} (Eq. 19). This large number is also close to the ninth term of the Lucas-Lehmer series (Eq. 20) and to the cardinal of the supergroup made up of the 20 happy groups associated with the Monster. This is linked with relations proving that the physical parameters are optimal bases for calculations, and therefore associated with Steiner's constant $e^{1/e}$ (Eq. 23).

Piquantly, the central pitfall of contemporary physics is solved with the help of Archimedes' testament, the conceptual basis of the Holographic Principle. What's more, this cosmic holography is an exact parallel to that of the Egyptians, where the Planck unit of length is replaced by the metre, the radius of the Cosmos by that of the Earth, and the radius of the Earth by that of the Cosmos. and the radius of the Universe by the horizon $D = 3570$ meters. According to astronomer Bizouard, this implies a latitude 80 km south of Jerusalem, very close to Cairo.

This number 3570 had been identified as central in particle physics, being the product of 17 and 210. Now, 17 is both the sum of the four holic primes (2 + 3 + 5 + 7 = 17) and the mass ratio Tau/Muon (super-heavy electron/heavy electron). On the other hand, 210 is both their product (2 × 3 × 5 × 7) and the mass ratio Muon/Electron (heavy electron/electron). The fact that this Nombrol 3570 is the antecedent to the 17th power of the golden ratio demonstrates a property of the latter that has eluded all mathematicians.

This basic terrestrial holographic relationship is also found between the Earth and the Sun, this time with the terrestrial day as the unit, since the root of double the year 365.25 is 27.03, exactly the average period, in days, of the sun's rotation. Let's not forget that the sun's slow rotation is still an unsolved problem. This relationship is directly linked to the 665-note Great Scale (Eq. 23). The optimal fifth scale is 306 notes, very close to π^5, which is, according to Wyler's second formula, the sixth part of the proton-electron mass ratio. Again according to 1836 = 12 × 153, this means that 306 is double 153. But it's also the product of the electrical constant a and $\sqrt{5}$, which translates into a geometric-numerical connection in the Theodore spiral. The difference is very close to the neutron-proton mass ratio, to within 43 billionths!

The terrestrial and cosmic holographies are also linked: the ratio of Cosmos-Earth rays is, to the nearest e coefficient, the number of neutrons in the Universe (Eq. 17), which is identified to the nearest thousandth with the large Eddington number multiplied by the gravitational factor 10/3 (Eq. 61). This confirms the

existence and density of dark matter and the density of associated baryonic matter (Eq. 93). The 7/10 complementary density, officially attributed to a mysterious "dark energy", is therefore a trivial property of the "invariant cosmological constant" that manages the repulsion of galaxies in proportion to their distance.

The comparison between the two basic holographs linked to the Earth above implies a relationship defining the neutral pion/electron mass ratio from 3570, in its millionth precision (Eq. 10).

The Holic Principle is the simplification of the holographic principle, eliminating the numerical coefficients. Its simplest form is $T^2 = L^3$, i.e. Kepler's third law. Its diophantine resolution in n^6 implies that the areal velocity is quantized, introducing the existence of the quantum constant $\hbar$. This elementary reasoning escaped Newton, even though he was considered a "Pythagorean" at the time. We need only assimilate Planck's corresponding mass to that of the human oocyte to get a good estimate of $\hbar$. In fact, the mass of the latter is smaller than the Planck mass by a factor of 137. This oocyte mass appears in the tachyonic expression (without c) of the hydrogen atom radius, and its geometric mean with the Armageddon mass is the electron mass. This Armageddon mass appears directly in the diophantian treatment above. It is directly linked to the Topon, the quantum of Space, and therefore to the Cosmos. *The Armageddon mass corresponds to 38 billion Humans weighing 100 kg, a number characteristic of Humanity* (Table 5).

In this Total Quantum Physics that quantifies space and time, so-called "real" numbers such as the mathematicians' π, with their

infinite number of decimal places, must be approximated by rational numbers. The fifth monster term in the fractional expansion of π, an unsolved problem in today's mathematics, is identified with the neutron-electron mass ratio divided by 2π. Several relationships confirm that the parameters are linked to the fractional expansion of π. In particular, Armand Wyler's formula for the electrical constant, which diverges from the measured value of 2 ppm, becomes compatible using a singular fraction as an approximation of π (Eq. 28).

In the Holic Principle, exponents 3 and 2 are considered dimensions (complex time is actually introduced by some theorists). By extension, the two numbers 5 and 7, co-prime with the previous ones, represent the dimensions associated with mass and field. It is indeed dimension 5 that is involved in the above calculation of Wyler's electrical constant.

The official cosmology is thus refuted, verifiably by all, in favor of the Perfect Cosmology. Galactic recession, anticipated by Newton, is interpreted as the evacuation of stale matter, in accordance with the second principle of thermodynamics. On the other hand, the first principle is violated, as fresh matter must be constantly created to compensate for the loss of galaxies leaving the visible Universe. The obvious candidate is the free neutron, chosen by Fred Hoyle, which has the negentropic character of decaying after 888 seconds into proton and electron, with regenerative energy in the form of the anti-neutrino.

The critical density is 5.6 neutrons per cubic meter. This corresponds to one neutron for a volume of 0.18 cubic meters, roughly the volume of an adult human couple. This is just one of

the many relationships that link human characteristics to those of perfect cosmology.

The most spectacular relationship is that of the Neuron, the time 19.13699 milliseconds given by replacing c by the Fermi constant (Eq. 31). This time is characteristic of human retinal persistence, and more precisely, it corresponds to the Lab's third low octave, with tuning 442.9 for A3. It also corresponds to the 14th high octave of the 313-second solar period, the "song of the sun", spotted by Sylvie Vauclair's team. The sun-human music relationship therefore involves 17 octaves, the equivalent of 136 white piano notes. The relationships are so precise that they induce a simple relationship to the nearest billionth between the fundamental constants of physics, involving the number 419 of even point symmetries in dimension 10 (Eq. 32).

The combination of these correlations is so improbable that it leads to a very low probability that another civilization could exist in the visible Universe (Table 11). Based on direct observations, the same Solanthropic Principle is independently proposed by Bibring in his book "Alone in the Universe".

By separating the electron from the proton-neutron pair, the 3-minute formula again shows basic 2D-1D holographic conservation. The extension to 3D introduces the wavelength of the thermal background, with a precision that rules out any hazardous numerology. This relationship eliminates light velocity once again: to within a holographic factor of 8/3, the Compton wavelength of hydrogen is given by the conceptual analysis based on G, $\hbar$ and the thermal energy $k_B T$ of the background radiation (Eq. 97).

The holographic series continues with an extra-ordinary 5D term (Eq. 100) and even the 210D term (Eq. 101), confirming the Holic Principle.

The great quanto-gravitational unification, vainly sought for a century, is now within everyone's grasp, and is deposited in a sealed envelope at the Académie des Sciences in Paris (March 1998). We therefore predicted that the distant Universe should be identical to the nearby domain, which is indeed indicated by the first observations of the JWST, showing in deep space old galaxies instead of the young ones expected by the officials. They were first called "killer galaxies", then "impossible". On the contrary, they are completely "natural" in the "perfect cosmology", i.e. Hoyle's permanent cosmology supplemented by the holographic principle and the Cosmos. The case of the barred spiral galaxies, renowned for their great age, is significant: while their density seemed to be decreasing towards the cosmic horizon, the new JWST observations show a constant density, confirming cosmic permanence. This had previously been refuted by the observation of variations in quasar density. The JWST must therefore re-examine this so-called refutation, which has done cosmology such a great disservice that the decisive predictions of permanent cosmology (thermal background, criticality, acceleration of galactic recession) have been forgotten).

Thomas Gold's model of the Universe as a nuclear fusion reactor predicted the correct background temperature in just one line of calculation. All that was missing was the thermalizing element needed to switch from gamma rays to microwaves. All that was needed was to consider background radiation as a direct

emanation of the Cosmos, the thermostat of the Universe. Gold and Hoyle failed to invoke the Cosmos out of ignorance of the holographic principle, which was only discovered in 1948. Anthropo-thermal relationships are spectacular (Eqs. 100 - 105). Remarkably, the mammal-to-bottom temperature ratio is so close to the Sternheimer scaling constant, as if the Cosmos were organic.

The confirmation of cosmic isotherm, so contrary to standard cooling, will consecrate the disaster of official cosmology.

The JWST, this marvel of technology, thus consecrates the triumph of human bon sense and engineering talent over the theorists drowned in their formalism who imposed this illusion of the Expansion of the Universe with its Initial Big Bang and the universality of Life.

The JWST and the new Euclid telescope must now observe that matter density is the invariant 0.3, the canonical non-relativistic gravitational parameter (Eq. 61). The baryonic density is $0.3^2/2 = 0.045$, as shown by the quantum writing of the 3-minute formula, proving that *dark matter is a matter-antimatter oscillation in quadrature with baryonic matter* (Eq. 93).

Regarding the dilemma of the apparent absence of antimatter in official cosmology, one of Sakharov's three conditions for matter to supplant antimatter is the disruption of thermal equilibrium. This is in flagrant contradiction with the near-perfect thermal distribution of the background radiation. The fact that the latter has been presented as decisive proof of the initial bang model is a denial of science. It's a unique case in the history of science: a

clear refutation presented as decisive confirmation!

Another anomaly is the official rejection of the non-Doppler Kotov oscillation, which proves the existence of tachyons. It should be remembered that the c velocity is not a limit but rather a boundary between bradyons (normal matter) and tachyons. It's a shame, then, that bosonic string theory was dismissed because of its tachyons. Fortunately, it is now fully rehabilitated by the Topological Axis above.

This scientific catastrophe has immense cultural implications, discrediting the official scientific system. The extravagant North American domination could be incriminated, as deductive formalism is privileged there, while female or artistic contributions are systematically downplayed. In particular, the 3-Minute Calculus has been censored. Future historians may well refer to the 20th century as the "Lost Century". It had begun so well with Poincaré's discoveries (relativity and quantum physics). Would this disaster have been avoided if this great universal mind had lived longer? Similarly, Eddington's early death (aged 61) prevented him from defending his theory when Hubble's measurement was corrected 10 years later.

Conclusions

 Like Jean Perrin at the end of his book "Atoms", we are seized with admiration. What a match between the simplest ideas and the most sophisticated physics!

 The transition from simple analogies to numerical relationships precise to the billionth is striking. It's an illustration of the

Principle of Approach that underpins Science, in conjunction with the arithmetic that underpins scientific truth. For no one can dispute the purity of a whole number, untainted by the sometimes infinite series of decimals of the so-called "real" numbers of the formalists. That's why it's not surprising that simple π approximations appear in this study. Thus, Armand Wyler's formula for the electrical constant, which had been unduly rejected, is fully rehabilitated.

The 3-minute formula left little chance for the official Initial Big Bang thesis. It's all one thing after another. At every step of this logical refoundation of physics, human, and more specifically solanthropic, characteristics appear, as soon as they involve the Earth or the solar system.

This is in stark contrast to the official Temporal Anthropic Principle, which puts forward only vague arguments, associated with the myth of the Initial Bang. Indeed, in official cosmology everything varies, so we can neither apply the holographic principle nor really link cosmology to the Human. *It is even belief in this Initial Bang myth that has obscured true solanthropic relationships.*

In their review article, Carr and Rees observe that the only relationship that has no theoretical interpretation is the fact that the radius of the Universe is the product of the electron's wavelength and gravitational coupling. Instead of noting that this eliminates light speed, these authors prefer to invoke the Temporal Anthropic Principle, according to which we live in a particular epoch.

So the Temporal Anthropic Principle has contributed to the stalemate in cosmology.

What's more, the official argument of a "creation to the precision of 120 decimal places", based on the critical condition, is not anthropic at all and is inadequate, because the most elementary basic holographic principle 1D-2D defines the "cosmic critical condition" simply and rigorously. There are no decimals to count.

The positive sentiment above is therefore qualified by dismay. How could modern scientists have missed such obvious facts? In particular, the half-radius of the Universe is given by a 3-minute calculation. All we have to do is reject the taboo of the speed limit *c*, and involve the masses of the three main particles. This is the end of the expansion of the universe. How could the Lost Century accept the initial Big Bang? What could be more far-fetched than to start the universe with a prodigious explosion? Historians must wonder about such collective blindness.

It's a good thing the new telescope didn't get lost in space. If just one of its hundred or so mechanisms had jammed, we'd have been on our way for another century. For its message is clear: no Initial Bang, but a very rapid permanent Bang oscillation.

Could such a collapse have been avoided if women had not been banned from the scientific elite? The Nobel institution has forgotten Jocelyn Bell (pulsar), Vera Rubin (dark matter), Rosalind Franklin (DNA structure), Lise Meitner (nuclear fission). The latter refused to take part in the bomb. Is the ousting of women linked to the history of war? Is the North American stranglehold on science to blame (Lemaître's omission from the

galactic recession, the scalar boson attributed to the Higgs alone, the Montagné-Gallo affair on the AIDS virus...)?

The physical constants carry another urgent message. The brutality of the Big Bang is replaced by the subtlety of permanent creation. In the volume of the Human couple, one neutron appears per cosmic cycle (13.8 billion years). The limit of science is reached with the proof of the permanent creation of neutrons, implying the divine. The baby galaxies observed by Halton Arp are the sign of the appearance of these negentropic neutrons. The search for antimatter and supersymmetric particles is futile. Dark matter is a matter-antimatter oscillation in quadrature. Cosmic permanence is no longer in doubt, thanks to multiple holographic links. The radiation background carries the cosmogenetic code.

 The return to Pythagoreanism involves rational fractions of π. This validates the arithmetical foundation of physics. The same goes for Eddington's "Hpersymmetry". But there's still a lot of arithmetical work to be done to explain these parameters. This book offers just a few, but reliable, clues.

 In biology, we must seriously consider that the DNA double helix is a hologram-line that controls the organism. Moreover, the future of computers should be DNA-based bioinformatics. In particular, Kotov's super-helical signals are directly linked to DNA. This is the advent of cosmo-biology.

The central role of the DNA bicodon in the correlations argues for a general presence of life in the universe, based on DNA. Human characteristics militate in favor of the Anthropic Principle: the universe would be full of humans, even humanoid aliens. But

everyone can verify the extraordinary solanthropic relationships involving the characteristics of the Earth, the Sun and the Solar System. These human-astrophysical relationships turn everything upside down and impose the Solanthropic Principle. Independently the astrophysicist Bibring has shown in his book "Alone in the Universe" that extravagant circumstances presided over the formation of the Earth and the solar system.

WE ARE THE ONLY SPECTATORS IN THE UNIVERSE

This contrasts with the official thesis that life is universally widespread, supported by the belief that life arose by chance. This belief is totally illusory, given its extreme improbability. What's more, if this were the case, there would have to be two symmetrical forms of life. But only one chiral orientation is observed in organic molecules. So, contrary to the official theories :

LIFE ONLY APPEARED ONCE, WE DIDN'T COME INTO BEING BY CHANCE