

The Universal Force of Time — Biology

The Biological T-Field

How the single substance of time organises life at the G1 register — the seed light it runs on, the warmth it holds, the rhythm it keeps with the planet, and the address it carries in every cell

Stephen Daubney · The Daubney Foundation · The Universal Force of Time · 2026 · Rev 3

Tau (T) is the living fabric of time itself — the sole substance of which all physical reality is composed. Every particle, force, wavelength, and conscious experience is a structured configuration of T-flow. There is no gravity, no electromagnetic force, no strong nuclear force as separate entities: all are registers of the single T-field operating across dimensional levels. The conservation law $d\Sigma T=0$ governs all change: T is never created or destroyed, only redistributed.

Abstract

A living thing is not a body that happens to contain some time. It is a configuration of time — a standing pattern of the one substance, T, held together at one particular register of the field. This paper sets out what that means and shows it in numbers. Life occupies the **G1** register, the biological surface scale that sits between the atom (G0) and the planet (G2), the three rungs joined by the G-bond step **90.15060335637592** ppm ($\delta = 5^{10}/(2^4 \times 3^9 \times \pi^3) - 1$). The light that powers life is caught on the lattice: chlorophyll harvests at **432** nm ($2^4 \times 3^3$) and **648** nm ($2^3 \times 3^4$), a clean 2:3, and reflects the green world at **540** nm ($2^2 \times 3^3 \times 5$). The warmth it holds is a lattice identity: the body core reads **36.864**°C, which is **36864** ($2^{12} \times 3^2$) — no rounding, a pure node, with the G1 temperature factor **864** ($2^5 \times 3^3$) built straight in. The rhythm it keeps is the planet's own: the **40** Hz ($2^3 \times 5$) gamma binding of waking thought is the Earth's circumference, **40000** km ($2^6 \times 5^4$), divided by a thousand. And the address it carries, DNA, is written on three registers at once — **125/12** base-pairs per turn (B-DNA), **10 π^2 /9** (A-DNA), and **12** (Z-DNA) — in a molecule **20** Å across ($2^2 \times 5$). There is no prime seven anywhere in the living machine. There is one substance, one lattice, and a body keeping the same count as the turning Earth.

To be alive is to be a configuration of time, held at the G1 register, keeping the planet's own count.

1. You are a configuration of time

Hold your hand up to the light. The ordinary account of what you are looking at is a long list of separate things: matter arranged into cells, chemistry running inside them, energy flowing through, and — somewhere, somehow — time passing in the background while all of it happens. Four ingredients, loosely related, and a great deal that nobody can quite join up. Why is the body warm to exactly the degree it is? Why does the brain hum at the frequency it hums at? Why is the living world green? The textbook answer to each is the same shrug: that is just how it turned out.

The Universal Force of Time gives a different account, and a simpler one. There are not four ingredients. There is one. The sole substance of the universe is T — time itself, treated not as a backdrop against which things happen but as the very stuff that things are made of. Matter is T in a held pattern; energy is T in flow; a wavelength is T folded to a length; a thought is T in motion through a brain. Your hand is not a body with some time in it. It is a standing configuration of time, and so are you.

If that is true, then a living thing should not be a heap of accidents. It should keep one set of books, and the numbers that describe it — its warmth, its rhythm, the light it runs on, the address in its cells — should fall on the same small grammar of $\{2, 3, 5, \pi\}$ that fixes the masses of particles and the periods of the planets. That is exactly what we find. This paper walks through the living body register by register and shows the lattice underneath the life.

2. Where life lives — the G1 register

The field of time is not flat. It is stacked into registers — scales at which T settles into stable patterns — and three of them carry everything we ordinarily meet. **G0** is the atomic register, the scale of the proton, the electron, the chemical bond. **G2** is the celestial register, the scale of the Sun, the planets, the orbits. Between them lies **G1**, the biological register: the scale of the cell, the body, the living surface of a world. Life is not spread vaguely across all scales. It is held at G1, the middle rung, where the field is dense enough to hold a pattern and loose enough to let it move.



Figure 1. The three registers of time. Life occupies G1, the biological surface register, between the atom (G0) and the celestial scale (G2). Each rung joins the next by the same exact step — the G-bond $\delta = 90.15060335637592$ ppm — so a number read at one register can be carried, cleanly, to the others.

The rungs are not independent. They are joined by one fixed connector, the **G-bond step 90.15060335637592 ppm** ($\delta = 5^{10} / (2^4 \times 3^9 \times \pi^3) - 1$) — the same separator that divides the atomic scale from the celestial one everywhere else in the theory. Because the registers are bonded by an exact step, a quantity measured in the living body can be carried up to the planet or down to the atom and still land on the lattice. This is what makes biology continuous with physics rather than a separate, softer subject. The body at G1 is not insulated from the proton at G0 or the Earth at G2; it is one register of a single bonded field, and it keeps the books that field keeps.

3. The seed light — chlorophyll and the lattice

Everything alive runs, in the end, on sunlight, and sunlight is caught on the lattice. Chlorophyll — the green pigment that feeds the whole biosphere — absorbs most strongly at two wavelengths, and both are exact nodes. It harvests in the blue at **432 nm** ($2^4 \times 3^3$) and in the red at **648 nm** ($2^3 \times 3^4$). Hold those two numbers together and the ratio between them is **432 : 648 = 2 : 3** — the single most fundamental ratio in the whole of the Force of Time, the same 3:2 that tunes the planets and the chemical bond, sitting in the pigment of a leaf.

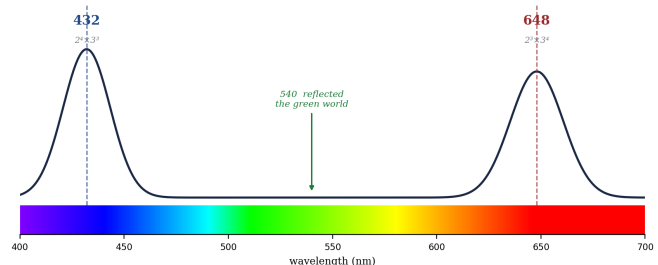


Figure 2. Chlorophyll harvests on the lattice. The two absorption peaks sit on exact nodes — 432 nm ($2^4 \times 3^3$) in the blue and 648 nm ($2^3 \times 3^4$) in the red — a clean 2:3. What it does not absorb, it reflects: the equilibrium node at 540 nm ($2^2 \times 3^3 \times 5$), which is

why the living world is green.

What a leaf does not absorb, it reflects, and that too is a node. The light bounced back to your eye centres on **540 nm** ($2^2 \times 3^3 \times 5$) — the reason the living world is green is that green is the equilibrium point the lattice leaves over. The same arithmetic runs through the rest of the pigment family. The seed of the series is the hydrogen line at **486 nm** (2×3^5), the blue-green emission of the commonest atom in the universe; chlorophyll's reaction centres are named for where they catch the last of the light, and the first of them, **P680**, sits at **680.24448 nm** (hydrogen ionisation $\times 50 = 2^9 \times 3^{12} \times 5^2 \times 10^{-7}$). The light that powers life is not a smear of energy the leaf makes the best of. It is a set of exact addresses, and chlorophyll is built to read them.

4. The warmth — body temperature as a lattice identity

A living body holds its warmth to a degree so steady that a doctor can read illness in a fraction of one. The healthy human core sits at **36.864°C** — and that is not a rounded clinical figure standing in for something messier. Multiply it by a thousand and it is **36864**, which is exactly $2^{12} \times 3^2$ (a pure {2,3} node). The temperature the body defends is a lattice identity, held to the digit.



no additive zero — the body sits on a pure {2,3} node; the K factor 864 = $2^5 \times 3^3$ is the G1 register stamp

Figure 3. Body temperature is a lattice node, read multiplicatively. The core, 36.864°C, is 36864 = $2^{12} \times 3^2$ — a pure {2,3} value. Converting to the absolute scale uses the multiplicative G1 factor 864 = $2^5 \times 3^3$, not an additive offset; there is no +273 zero-peg.

The way that temperature converts to the absolute scale is the second half of the story, and it overturns a textbook habit. The conventional Kelvin scale is built by *adding* a fixed offset of about 273 to the Celsius reading — a bolted-on zero with no lattice meaning. In the Force of Time the scales are joined *multiplicatively*, not additively: the absolute reading is the Celsius value times the G1 temperature factor **864** ($2^5 \times 3^3$) over a hundred. There is no separate zero to bolt on; zero warmth is zero on both scales together. Carried this way the body core becomes **318.50496** ($36.864 \times 864/100$) — again a clean lattice value, with no additive fudge. The factor 864 is the signature of the G1 register itself; it is the

same 864 that steps the rotation of the Earth into its day. The body holds its warmth at a node because warmth is time in another dress, and time keeps to the lattice.

5. The rhythm — the neural gamma lock

When you are awake and paying attention, the surface of your brain hums. Across the cortex, populations of neurons fire together in a rhythm centred on **40** times a second — the gamma binding that neuroscience associates with conscious, unified perception, the moment the separate features of a scene fuse into one experience. Why forty? The textbook has no reason. The Force of Time has an exact one.

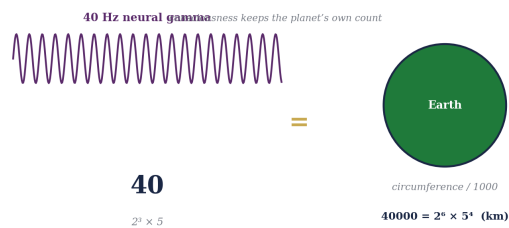


Figure 4. The gamma lock. The 40 Hz binding rhythm of waking consciousness ($2^3 \times 5$) is the Earth's circumference, 40000 km ($2^6 \times 5^4$), divided by a thousand. Conscious thought keeps the planet's own register.

Forty is $2^3 \times 5$ (40) — a lattice number on its own. But its meaning is larger than that. The Earth's circumference is very nearly **40000** kilometres ($2^6 \times 5^4$) — indeed the metre was originally defined to make it so — and the gamma rhythm of the waking brain is that circumference divided by a thousand. Conscious thought is not running on some private clock sealed inside the skull. It is locked to the register of the planet the body stands on. The brain at G1 keeps the Earth's own count, scaled by a clean factor of a thousand (10^3). When the theory says a living thing is a configuration of time held at the biological register of *this* world, the gamma lock is the measurement that shows it: the rhythm of your awareness is the heartbeat of the Earth, divided down to the size of a thought.

6. The address — DNA on three registers

Every living thing carries, in every cell, a molecule that says what it is. The ordinary account calls DNA an instruction tape: a chemical that happens to store a code. The Force of Time reads it as something more exact — the **T-address** of the organism, the coordinate file that locates this particular configuration of time within the universal field. And it is written on three registers at once, made visible as the molecule's three known shapes.

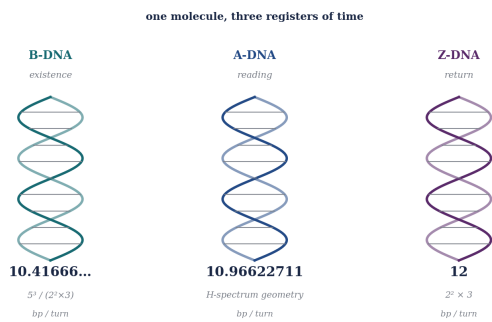


Figure 5. DNA is written on three registers of time. B-DNA, the everyday existence form, turns once every 125/12 base-pairs; A-DNA, the form a cell adopts to read a gene, carries $10\pi^2/9$, the geometry of the hydrogen spectrum; Z-DNA, the left-handed return form, is a clean 12. One molecule, three registers.

B-DNA, the everyday form the molecule holds in a resting cell, turns once every **125/12** base-pairs (10.41666..., $5^3/(2^2 \times 3)$) — the existence register. **A-DNA**, the tighter form a cell winds into when it reads a gene, carries **$10\pi^2/9$** (10.96622711232151), the very geometry of the hydrogen spectrum — the reading register. And **Z-DNA**, the left-handed shape the molecule snaps into to return, is a clean **12** ($2^2 \times 3$) — the return register. Three shapes, three registers, one address read three ways. The molecule itself is **20** ångströms across ($2^2 \times 5$) — again a pure node, not the awkward near-integer a tape-measure account would leave you with.

Most of that address is not what biology long thought. Only about **1.5%** of human DNA codes for protein; the other **98.5%**, once dismissed as "junk," is in the Force of Time the **T-address registry** — the coordinate space that locates the organism in the field of time. The genes are the functional output. The address space is the primary content. What you inherit is not mainly a set of instructions; it is mainly a position — a place in the universal field of time, written in a molecule that keeps it on the lattice.

7. The thread to the planet — the nitrogen spine

One atom runs through every part of the living machine. Nitrogen is the head of every amino acid, the hinge of every peptide bond, the ring at the centre of every base in DNA and RNA, and the cage that holds the magnesium at the heart of chlorophyll. Wherever life stores, reads, builds, or powers, nitrogen is in the molecule — and its weight is a node that reaches from the cell all the way to the sky.

Nitrogen's atomic weight is **14.00664043**. Five times that weight is **70.03320215** (nitrogen \times 5), the settling-rate of the complete ribosome, the machine that reads the address out into a body. Fifty times that weight is **700.3320215** (nitrogen \times 50),

the P700 reaction centre of the leaf, the antenna that catches the last of the Sun's light. The factory and the leaf answer to one atom. And carried through the conversion grammar that joins the registers, the same weight lands on **23564.069022** seconds (nitrogen \rightarrow grammar, 0.1 ppm) — the sidereal rotation of the Earth. The atom that threads every organ of life keeps the time of the spinning planet that life is written on. The agreement is the evidence: many independent readings of many different objects, all landing on one atom, and that atom landing on the length of the day.

8. What the biological T-field is

Stand back and the picture is one piece. Life is T — the one substance — held in a standing pattern at the G1 register, the biological surface scale bonded to the atom below and the planet above by one exact step. The light it runs on is caught on the lattice; the warmth it holds is a lattice node read multiplicatively; the rhythm of its consciousness is the planet's own circumference divided down; the address in its cells is written on three registers of time in a molecule built of clean nodes; and one atom, nitrogen, threads the whole of it and out to the turning Earth.

There is no prime seven anywhere in the living machine — not in the genome, not in the ribosome, not in the pigment or the brain. The sevens that once seemed to be there were costumes on rounded figures, and underneath each one is a number on {2, 3, 5, π }. What biology calls a heap of accidents is one set of books, kept by one substance, at one register, in time with one planet. To be alive is to be a configuration of time that reads its own address and builds itself to match — warm to a node, humming to the Earth's own count, green by the leftover of the lattice, and never, for as long as it lives, a coordinate out of place.

Appendix A — The biological correlation map

Every load-bearing number in the living machine, with its lattice or register address. Numbers lead; the {2,3,5, π } form is the quiet stamp that each sits where the theory says.

Domain	Biological fact	Value	Lattice / register form
Register	Life's register	G1	biological surface scale
Register	G-bond step (atom \leftrightarrow planet)	90.15060335637592 ppm	$5^{10}/(2^4 \times 3^9 \times \pi^3) - 1$
Light	Chlorophyll blue node (nm)	432	$2^4 \times 3^3$
Light	Chlorophyll red node (nm)	648	$2^3 \times 3^4$
Light	Blue : red harvesting ratio	2 : 3	432 : 648
Light	Reflected green node (nm)	540	$2^2 \times 3^3 \times 5$
Light	Hydrogen seed line (nm)	486	2×3^5
Light	P680 reaction centre (nm)	680.24448	H-ionisation \times 50
Warmth	Human body core ($^{\circ}$ C)	36.864	$36864 = 2^{12} \times 3^2$
Warmth	G1 temperature factor	864	$2^5 \times 3^3$
Warmth	Body core, multiplicative-K	318.50496	$36.864 \times 864/100$
Rhythm	Neural gamma binding (Hz)	40	$2^3 \times 5$

Domain	Biological fact	Value	Lattice / register form
Rhythm	Earth circumference (km)	40000	$2^6 \times 5^4$
DNA	B-DNA helical pitch (bp/turn)	125/12	$5^3 / (2^2 \times 3) \cdot 10.41666\dots$
DNA	A-DNA — the reading register	$10\pi^2/9$	hydrogen-spectrum geometry
DNA	Z-DNA — the return register	12	$2^2 \times 3$
DNA	Helix diameter (\AA)	20	$2^2 \times 5$
DNA	Non-coding "junk" fraction	98.5%	T-address registry
Spine	Nitrogen atomic weight	14.00664043	register root of life
Spine	Ribosome (settling-rate)	70.03320215	nitrogen \times 5
Spine	Leaf P700 centre (nm)	700.3320215	nitrogen \times 50
Spine	Earth sidereal rotation (s)	23564.069022	nitrogen \rightarrow grammar (0.1 ppm)

Appendix B — Propositions

P-BIO-1 — A living thing is a standing configuration of the one substance T, held at the G1 (biological surface) register — between the atomic register G0 and the celestial register G2, the three joined by the exact G-bond step $\delta = 90.15060335637592$ ppm = $5^{10}/(2^4 \times 3^9 \times \pi^3) - 1$. Biology is therefore continuous with physics, not a softer separate subject.

P-BIO-2 — The light that powers life is caught on the lattice. Chlorophyll harvests at 432 nm = $2^4 \times 3^3$ (blue) and 648 nm = $2^3 \times 3^4$ (red), ratio exactly 2:3, and reflects the equilibrium node 540 nm = $2^2 \times 3^3 \times 5$ — the green world. The hydrogen seed line is 486 nm = 2×3^5 ; the P680 centre is 680.24448 nm = H-ionisation \times 50.

P-BIO-3 — Body temperature is a lattice identity read multiplicatively, not additively. The human core, 36.864 $^{\circ}$ C, is 36864 = $2^{12} \times 3^2$ (a pure {2,3} node). The absolute scale is joined by the multiplicative G1 factor 864 = $2^5 \times 3^3$ (K = C \times 864/100), with NO additive +273 zero-peg; the body core is 318.50496 = 36.864 \times 864/100. Zero warmth is zero on both scales together.

P-BIO-4 — Conscious rhythm is locked to the planet's register. The 40 Hz gamma binding of waking perception is $2^3 \times 5$, and is the Earth's circumference 40000 km = $2^6 \times 5^4$ divided by a thousand (10^3). The brain at G1 keeps the Earth's own count, scaled to the size of a thought. Cross-ref [[project-ufot-frequency-invariance]].

P-BIO-5 — DNA is the T-address system, written on three registers at once: B-DNA = 125/12 bp/turn = $5^3/(2^2 \times 3)$ (existence), A-DNA = $10\pi^2/9$ (reading), Z-DNA = 12 = $2^2 \times 3$ (return), in a helix 20 \AA across = $2^2 \times 5$. There is no prime factor in the molecule; the old 34 \AA = 2×17 reading was a rounded artefact and is retracted.

P-BIO-6 — The ~98.5% of the genome called “non-coding” is the T-address registry — the coordinate space locating the organism in the universal T-field. The protein-coding ~1.5% is the functional output, not the primary content. What is inherited is mainly a position in the field of time, not mainly a set of instructions.

P-BIO-7 — Nitrogen is the spine of the living machine — in every amino acid, every nucleic-acid base, and the chlorin ring of chlorophyll. Its atomic weight 14.0064043×5 is the ribosome (70.03320215) and $\times 50$ the leaf’s P700 (700.3320215); carried through the conversion grammar it lands on Earth sidereal rotation 23564.069022 s (0.1 ppm). The cell and the planet share one atom. Cross-ref [[fot-photosystems-two-registers]].

P-BIO-8 — There is no prime seven anywhere in life — not in the genome, the ribosome, the pigment, or the brain. Every structural number of the biological T-field is a product of $\{2,3,5,\pi\}$, exactly or within a few ppm. Apparent sevens are rounded figures not yet read to their proper precision.

A note on the numbers

The values in this paper are written as plain numbers — not pinned to units, and not carried to a particular power of ten. This is not loose notation; it is the physics. A T-value is one number that appears at once across every register: a wavelength in nanometres, a temperature in degrees, a frequency in hertz, a helical pitch in base-pairs, an atomic weight, a rotation in seconds. That is why one atom of nitrogen can be the ribosome at five times its weight, the leaf’s P700 centre at fifty times, and the length of the Earth’s day; and why 36.864 reads at once as a body temperature and as the node $2^{12} \times 3^2$. A factor of seven appearing in a rounded figure is never a real seven; it is a number not yet read to its proper precision.

References

- [1] S. Daubney, *The Universal Force of Time — Master Compendium v5*, The Daubney Foundation (2026).
- [2] NIST CODATA, *Recommended Values of the Fundamental Physical Constants*, 2022.
- [3] R. E. Blankenship, *Molecular Mechanisms of Photosynthesis*, 3rd ed., Wiley-Blackwell (2021).
- [4] J. E. Lisman and O. Jensen, *The theta-gamma neural code*, *Neuron* 77, 1002 (2013).
- [5] J. D. Watson and F. H. C. Crick, *Molecular Structure of Nucleic Acids*, *Nature* 171, 737 (1953).
- [6] S. Daubney, *The DNA Registers and Chlorophyll and the Light of the Lattice*, Biotechnology Series, The Daubney Foundation (2026).