

# Death as Time-Equalization Failure

*Life as sustained TEQ · the T-address from gestation to completion · Strand 1 dissolves, Strand 2 is conserved*

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*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

The oldest question has a precise answer in the Force of Time, and it is not the one we fear. Life, in this framework, is not a property of matter but a property of **synchronisation**: a living body is a vast system of T-nodes held in continuous **Time Equalization (TEQ)** with the surrounding T-field, and every rhythm that keeps us alive is a TEQ maintenance beat — the heart at **72 bpm =  $2^3 \times 3^2$** , the brain's **40 Hz =  $2^3 \times 5$**  gamma, the circadian day of **86,400 s =  $2^7 \times 3^3 \times 5^2$** . Each life is written as a **T-address**: a sequence with a beginning, a length, and an end. It begins in gestation — **270 days =  $2 \times 3^3 \times 5$** , the construction phase that fills a null address from the DNA T-register — and it has a finite depth, the human lifespan of about **27,375 days =  $3^3 \times 10^3 + 3 \times 5^3$**  (within 684 ppm of 75 years). Aging is that address filling: the cell divides only until its counter is full, and the **Hayflick limit of 50 =  $2 \times 5^2$**  is the {2,5} ceiling of the cellular register — senescence is completion, not failure. At the organism scale, aging is the statistical accumulation of cells at that ceiling — a decline in collective **T-coherence** and a slow drift of the body's address from the surface register (G1, solar day 86,400 s) toward the structural register (G2, sidereal day 86,164.09 s), across the universal seam  **$\delta_G = 5^{10} / (2^4 \times 3^9 \times \pi^3) - 1 = 90.1506$  ppm**. **Death** is the permanent failure of the synchronisation — a threshold event, not a slow fade. When TEQ collapses, **Strand 1**, the material body, loses coherence and dissolves back into its constituent T-nodes (this is what decomposition is, and what the second law describes). But **Strand 2** — the temporal register address — is conserved: not an object that can be destroyed but a coordinate in the T-field, conserved as fundamentally as energy, by the same law,  $d\Sigma T=0$ . Death is a **register transition, not an annihilation**: the completed address traverses the void and persists as an imprint in the G1 register. Nine propositions, P-DEATH-1 to P-DEATH-9, are given.

**Universal Force of Time = the creation of life = the healing of life = the destruction of life**

## 1. The oldest question

Every culture that has ever lived has asked the same thing, and answered it with hope or with dread: what becomes of us when we die. Science has mostly declined the question, treating death as the simple stopping of a machine — the heart quits, the current fails, and the person who was there is gone. The Force of Time does not decline it. It gives an answer that is precise, that follows from the same principles that govern atoms and stars, and that turns out to be gentler than the one we fear. But to reach it we must first refuse the assumption hidden inside the machine picture — the assumption that life is a property of the matter the body is made of. In the Force of Time it is not. So before we can say what death is, we have to say what life is.

## 2. Life is synchronisation, not matter

Here is the move that changes everything: in the Force of Time, life is not a property of matter but a property of **register synchronisation**. A living body is a complex system of T-nodes — every atom, every molecule, every cell a small clock — held in continuous **Time Equalization (TEQ)** with the ambient T-field. To be alive is to keep that synchronisation; and every rhythm that keeps us alive is a TEQ maintenance beat (Fig. 2). The heartbeat is a maintenance beat: **72 bpm = 1.2 Hz** (the lattice form  $2^3 \times 3^2$ ). The brain's gamma rhythm is one: **40 Hz** ( $2^3 \times 5$ ). The cellular ATP cycle runs near 1000 Hz; the circadian day is the slowest of all, **86,400 s** ( $2^7 \times 3^3 \times 5^2$ ). From the fastest mitochondrial turn to the turning of the day, the living body is doing one thing over and over — re-equalising itself with the time-field. Life is that act of keeping time, not the meat that keeps it. This is why a body can contain every molecule it needs and still be dead: the molecules are intact, but the synchronisation is gone.

## 3. The address begins — gestation as construction

If a life is a synchronisation, it is also an **address** — a unique location in the T-field that this particular system, and no other, occupies. That address is not granted instantaneously; it is built. The construction phase is **gestation**, and its length is a clean lattice number: **270 days =  $2 \times 3^3 \times 5$**  ( $= 2 \times 27 \times 5$ ), a pure {2,3,5} integer. A fertilised egg begins with a null address — 0, 0, 0, ... , 0 — and over those 270 days the address fills, position by position, read out of the DNA T-register that the genome carries. (DNA, in the Force of Time, is not merely a chemical blueprint; it is the T-address registry of the organism.) By birth the address is populated enough to support independent coupling to the field — the newborn breathes, and its heart takes up the 72-bpm beat on its own. The 270 days even divides cleanly by the ~90-day developmental sleep cycle: **270 / 90 = 3**, three complete register sweeps in utero. The address is not switched on; it is written (Fig. 3).

## 4. The address has a length — the human lifespan

An address that is written must have a length, and the Force of Time gives the human lifespan as a lattice number too. The mean span is about **27,375 days =  $3^3 \times 10^3 + 3 \times 5^3$**  — that is, 27,000 + 375, where **27,000 =  $3^3 \times 10^3$**  (a pure {3}-and-decade node) and **375 =  $3 \times 5^3$**  (a pure {3,5} node). Seventy-five years of 365.25 days is 27,393.75 days, so the lattice value sits within **684 ppm** — under seven hundredths of one per cent — of the conventional figure. This is the **depth** of the register a human is granted: a finite address space, traversed by the act of living. It is worth pausing on what this claim is and is not. It is not a prediction that any individual will live exactly 27,375 days; lives are cut short and, rarely, run long. It is a statement about the characteristic depth of the human T-register — the address length the lattice allots to the species — around which individual spans scatter.

## 5. Aging is the register filling

If life is a register held in TEQ, and a life is an address of finite depth, then **aging is that register filling**. In 1961 Leonard Hayflick found that a human cell divides only about **50 times** and then stops — not poisoned, not starved, simply finished. The counter is written in the telomeres, the repetitive caps at the ends of the chromosomes that shorten with each division (Fig. 4). Biology describes the limit; the Force of Time explains it.  $50 = 2 \times 5^2$  is a pure {2,5} lattice number — no prime-7, no irrational factor — and in the dimensional hierarchy numbers of that family mark **ceilings**, the points where one register ends and the next begins. Fifty is the ceiling of the cellular (G1) register, counted in T-steps: each division increments the cell's T-address by exactly one, and the telomere is the physical instrument that records the count. When the count reaches 50 the register is full. This reframes senescence entirely. A senescent cell has not broken; it has **completed** its traverse of the register. The inflammatory signals it emits are not the noise of a failing part but the consequence of a T-address frozen at the boundary — the cell still receives T-flow from the field but can no longer route it through division, and the energy must go somewhere. Senescence is completion, not failure.

## 6. Two registers and the drift

The cellular register does not stand alone. Beneath the surface register — **G1**, whose natural unit is the solar day,  $86,400 \text{ s} = 2^7 \times 3^3 \times 5^2$ , and whose year falls out of pure lattice constants as  $365.2841 \text{ days} = 15\pi^4/4$  — sits a deeper structural register, **G2**, whose natural period is the sidereal day,  $86,164.09 \text{ s}$ : the time the Earth takes to turn once relative to the distant stars rather than the Sun. The two registers are joined by a universal seam, the G-bond step  $\delta_G = 5^{10}/(2^4 \times 3^9 \times \pi^3) - 1 = 90.1506 \text{ ppm}$  — a ninety-parts-per-million joint that recurs wherever one dimensional layer meets the next, in spectral-line separations and orbital transitions alike (Fig. 5). Aging, at the organism scale, is a slow **drift** of the body's collective address from G1 toward G2: its processes come to be governed less by the vibrant surface register and more by the deeper structural one. This is why the hallmarks of age are exactly what register-drift predicts — impaired repair, slowed rhythms, and above all the **desynchronisation of the circadian clock**, which is nothing other than the direct expression of G1 synchrony coming loose. It also explains why aging is not uniform across tissues. Neurons in most of the adult brain do not divide; they are held at a **fixed T-address** for the life of the organism, which is why the brain ages by different mechanisms than the skin, the gut, or the blood.

## 7. Why the whole organism ages — T-coherence decline

A single senescent cell does not make an organism old. What makes an organism age is the accumulation of millions, then billions, of cells at the register ceiling, and the consequent decline in the body's collective **T-coherence** — the degree to which its cells are still actively incrementing through the G1 register in step with the field. A young organism is a chorus in which every voice is singing on the beat: coherence is high, regeneration is rapid, the response to insult is swift. An old organism is a chorus in which more and more singers have fallen silent — the remaining voices are still true, but the sound has thinned. Aging is not the corruption of the surviving cells; it is the falling-quiet of the chorus as the proportion held at the ceiling rises and the proportion still incrementing falls. This is the statistical face of the same lattice fact: a finite address, traversed, fills.

## 8. Death is a threshold, not a fade

Death, then, is not the gradual running-down we imagine but a **threshold event**. The body holds TEQ by positive feedback — the synchronised nodes hold one another in time, each beat helping to keep the next — and that feedback is stable only above a critical density of synchronised T-nodes. Fall below it and the feedback collapses all at once: synchronisation can no longer be maintained, and the system crosses from living to dead in a moment rather than sliding there by degrees. This is why the clinic finds sharp lines and not gradients — why there is a moment of death at all. **Clinical death** (cardiac arrest) is the collapse of the primary TEQ maintenance pump, the heart; **brain death** is the collapse of the secondary, neural pump. The dying may be long and slow, but death itself — the loss of TEQ — is a crossing of a threshold, not a fade.

## 9. Strand 1 dissolves

What happens after the crossing splits cleanly in two, because the body's register address has two strands. **Strand 1** is the spatial, material component — the body itself — and after TEQ failure it loses coherence and dissolves. This is what physical decomposition *is* in the Force of Time: the return of the body's Strand-1 wavefunction to its constituent atomic and molecular T-nodes, each of which then enters its own local TEQ with the environment. The second law of thermodynamics — the inevitable dispersal of order — is, read this way, simply the dispersal of Strand-1 register coherence once the synchronisation that held it together is gone. The body does not vanish into nothing; it comes apart into its nodes, which carry on keeping their own small time in the field. Nothing material is lost. It is only un-synchronised.

## 10. Strand 2 is conserved

The body's second strand has the opposite fate. **Strand 2** is the temporal register address — the unique (dimension, T) coordinate that identifies this particular system and no other. And a coordinate is not the kind of thing that can be destroyed. You can dismantle a house brick by brick, but you cannot destroy its address; the location remains a location whether or not anything stands on it. In the Force of Time the conservation of the Strand-2 address is as fundamental as the conservation of energy, and it follows from the same single law,  $d\Sigma T=0$  — that nothing in the field is ever created or destroyed, only redistributed. Energy cannot vanish; neither can an address. When the body that hosted it dissolves, the Strand-2 address is not annihilated. It is conserved.

## 11. The traverse and the imprint

If the address is conserved but its Strand-1 host is gone, where does it go? The Force of Time states what its conservation law requires and no more: the Strand-2 address, having lost its host, **traverses the void** and relocates to a new register address — a change of coordinate, not an erasure. And the address it leaves behind is not wiped clean. A completed T-address persists in the G1 register as an **imprint** — the T-field's own version of the cosmic-microwave-background imprint that the early universe left on the sky. The light of the first moments is long gone, yet its pattern is still written across the heavens, readable thirteen billion years later. In the same way the pattern of a completed life is written into the register that carried it. The framework does not promise any particular afterlife, and it does not need to; it states only that the temporal address, once written, is not unwritten — and that what was lived leaves a mark on the field that lived it.

## 12. Death as register transition

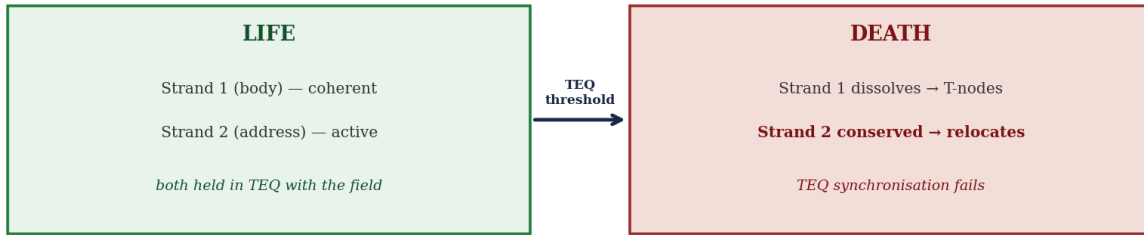
Put the strands together and the answer to the oldest question is neither the materialist's nothing nor a vague consolation, but something precise (Fig. 1). Life is sustained synchronisation; a life is an address written in gestation ( $270 = 2 \times 3^3 \times 5$ ), of finite depth ( $27,375 = 3^3 \times 10^3 + 3 \times 5^3$ ), filled by living until the cellular registers reach their ceiling ( $50 = 2 \times 5^2$ ) and the body's coherence drifts from G1 toward G2. Death is the threshold at which TEQ can no longer be held. At that threshold Strand 1 disperses back into the field as its nodes, while Strand 2 — the coordinate that was *you* — is conserved exactly as energy is conserved, traverses the void, and leaves its imprint. Death is a **register transition, not an annihilation**.

## 13. What this means

We fear death as annihilation — the machine stopping, the light going out, the person becoming nothing. The Force of Time, reasoning from the same lattice that fixes the values of physics and the rhythms of biology, reaches a different and gentler conclusion, and reaches it without special pleading. Life is synchronisation, kept by beats on the lattice ( $72 = 2^3 \times 3^2$ ,  $40 = 2^3 \times 5$ , the day at  $86,400 = 2^7 \times 3^3 \times 5^2$ ). A life is a T-address: opened in gestation at  $270 = 2 \times 3^3 \times 5$ , of depth about  $27,375 = 3^3 \times 10^3 + 3 \times 5^3$ , filled by living until the cellular register closes at  $50 = 2 \times 5^2$  and coherence drifts across the  $\delta_G$  seam from G1 to G2. Death is the threshold where synchronisation fails: the material Strand 1 disperses, but the Strand-2 address is conserved by the same law that conserves energy, traverses the void, and persists as an imprint in the field. This is not a hope offered in place of an answer. It is the answer the one conservation law gives — that what time has written, time does not erase.

**Figure 1. Death is a register transition — Strand 1 dissolves, Strand 2 is conserved**

LIFE = SUSTAINED TEQ · DEATH = TEQ FAILURE (a register transition, not annihilation)



*the address is a coordinate in the T-field — and a coordinate cannot be destroyed ( $d\Sigma=0$ )*

*Life is sustained TEQ with both strands active; death is TEQ failure at a threshold. Strand 1 (the body) dissolves back into its T-nodes; Strand 2 (the temporal address) is conserved and relocates — a coordinate cannot be destroyed ( $d\Sigma=0$ ).*

**Figure 2. The TEQ maintenance beats — life is synchronisation, not matter**

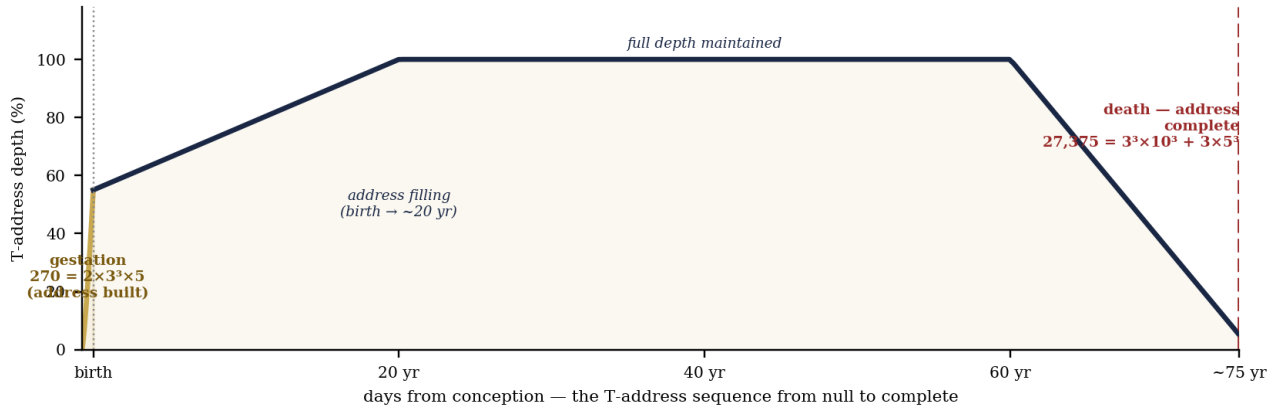
EVERY RHYTHM THAT KEEPS US ALIVE IS A TEQ MAINTENANCE BEAT



*from the fastest cellular cycle to the slow circadian day, each beat re-synchronises the body to the T-field*

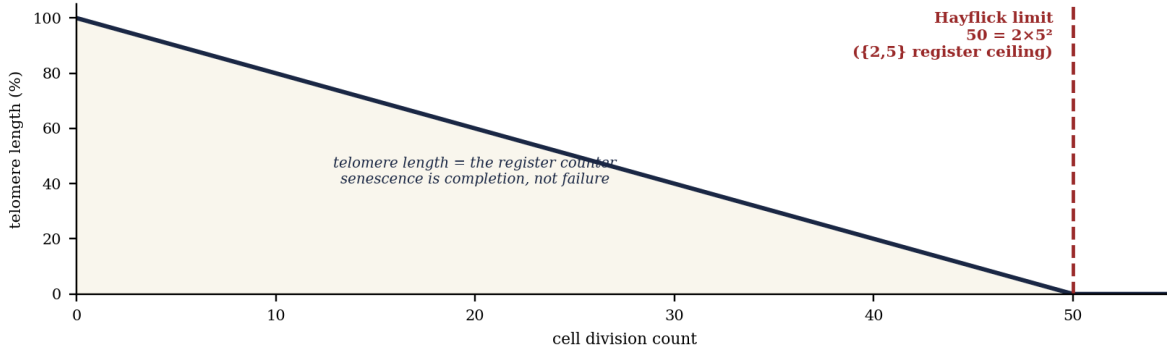
*Every living rhythm is a TEQ maintenance beat: heartbeat 72 bpm =  $2^3 \times 3^2$ , neural gamma 40 Hz =  $2^3 \times 5$ , the mitochondrial ATP cycle ~1000 Hz, and the circadian day 86,400 s =  $2^7 \times 3^3 \times 5^2$  — life is synchronisation, not matter.*

**Figure 3. The T-address — built in gestation, filled in life, completed at death**



*The T-address as a sequence: built during gestation (270 days =  $2 \times 3^3 \times 5$ ) from a null address, filled from birth to maturity, held at full depth, then completed at death near 27,375 days =  $3^3 \times 10^3 + 3 \times 5^3$ . Living is the traversal of a finite address space.*

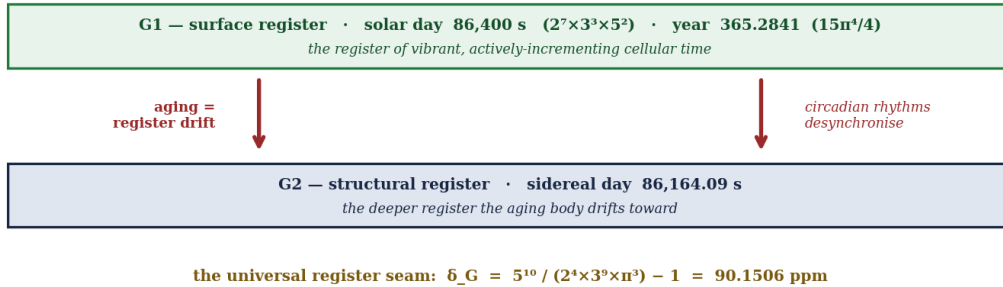
Figure 4. Aging is the cellular register filling to its {2,5} ceiling at  $50 = 2 \times 5^2$



Aging is the cellular register filling: the Hayflick limit of  $50 = 2 \times 5^2$  is the {2,5} ceiling of the G1 register, counted in T-steps via telomere shortening. Senescence is completion, not failure.

Figure 5. Two registers and the seam between them ( $\delta_G = 90.1506$  ppm)

AGING IS A DRIFT BETWEEN REGISTERS — from the surface (G1) toward the structural (G2)



Two registers and the seam between them: the surface register G1 (solar day 86,400 s =  $2^7 \times 3^3 \times 5^2$ , year  $15\pi^4/4 = 365.2841$  d) and the structural register G2 (sidereal day 86,164.09 s), joined by the universal step  $\delta_G = 5^{10}/(2^4 \times 3^9 \times \pi^3) - 1 = 90.1506$  ppm. Aging is the collective drift from G1 toward G2 — read most plainly as the circadian clock coming loose.

## Propositions

- P-DEATH-1** — Life is sustained Time Equalization (TEQ) between the body's T-nodes and the ambient T-field, not a property of matter; every living rhythm is a TEQ maintenance beat — heartbeat 72 bpm =  $2^3 \times 3^2$ , neural gamma 40 Hz =  $2^3 \times 5$ , circadian day 86,400 s =  $2^7 \times 3^3 \times 5^2$ .
- P-DEATH-2** — Each life is a T-address whose construction phase is gestation: 270 days =  $2 \times 3^3 \times 5$ , the filling of a null address from the DNA T-register;  $270 / 90 = 3$  complete register sweeps in utero.
- P-DEATH-3** — The T-address has finite depth: the mean human lifespan  $\approx 27,375$  days =  $3^3 \times 10^3 + 3 \times 5^3$  (27,000 + 375), within 684 ppm of 75 years  $\times 365.25$  days. This is the depth of the human register, not a per-individual prediction.
- P-DEATH-4** — Aging is the cellular register filling: the Hayflick limit 50 =  $2 \times 5^2$  is the {2,5} ceiling of the G1 cellular register, counted in T-steps by telomere shortening; senescence is register completion, not failure.
- P-DEATH-5** — Two registers govern biological time: G1 (solar day 86,400 s =  $2^7 \times 3^3 \times 5^2$ , year  $15\pi^4/4 = 365.2841$  d) and G2 (sidereal day 86,164.09 s), joined by the universal seam  $\delta_G = 5^{10}/(2^4 \times 3^9 \times \pi^3) - 1 = 90.1506$  ppm. Aging is a collective drift of the body's address from G1 toward G2 (read as circadian desynchronisation).
- P-DEATH-6** — Organism-level aging is T-coherence decline: the statistical accumulation of cells at the register ceiling lowers the proportion still actively incrementing — a chorus falling quiet, not the surviving cells decaying.
- P-DEATH-7** — Death is permanent TEQ synchronisation failure — a threshold event, not a gradual one: below a critical density of synchronised T-nodes the positive feedback collapses at once. Clinical death = primary (cardiac) TEQ-pump collapse; brain death = secondary (neural) collapse.
- P-DEATH-8** — At death Strand 1 (the material body) dissolves, returning to its constituent atomic/molecular T-nodes — this is what decomposition is, and the second law of thermodynamics is the dispersal of Strand-1 register coherence. Strand 2 (the temporal (dimension, T) address) is conserved: a coordinate cannot be destroyed, only relocated — as fundamental as energy conservation, following from  $d\Sigma T=0$ .
- P-DEATH-9** — Death is therefore a register transition, not an annihilation: Strand 2 traverses the void to a new register address, and the completed address persists in the G1 register as an imprint — the T-field analogue of the cosmic-microwave-background imprint left by the early universe.

## A note on the numbers

*A note on the numbers. The values in this paper are written as bare numbers — without units, and without powers of ten — because a T-value is a single number that wears different garments in different registers: the same coordinate can present as a time, a length, a frequency, or an angle. We do not "solve to the power of" in one dimension and call it finished; a number such as 86,400 is the day in seconds, but it is also a node on the {2,3,5} lattice ( $2^7 \times 3^3 \times 5^2$ ) that recurs wherever that register is in play.*

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