THE UNIVERSAL FORCE OF TIME · MEDICINE

Viruses and Parasites

One host register, four things done to it — and the two wavelengths that kill microbes read on the lattice: the far-ultraviolet as the speed of light squared, the violet as hydrogen's Lyman line divided by three

Stephen Daubney · The Daubney Foundation · 2026 · Rev 6 (supersedes Rev 5: infection given in full as medicine knows it; the 222 nm and 405 nm research incorporated and credited, with eighteen lattice lines; every route walked)

Tau (T) is the living fabric of time itself — the sole substance of which all physical reality is composed. It is generated by the Sun, as by every star for its own system, and flows outward in the form of the DNA double helix, creating matter, which it deposits at nodal points — the planets — and creating life. Every particle, force, wavelength and conscious experience is a structured configuration of T-flow. The conservation law $d\Sigma T = 0$ governs all change: T is never created or destroyed at a node, only redistributed.

INFECTION, NUMBER FIRST

to be alive is to carry **T-flow** · four routes: **borrow · drain · drift · integrate**

far-ultraviolet: $(3\cdot10^5)^2$ = **9** → × $\pi^2/8$ × 2 = **222.0660990245106 nm** = $(3\pi/2)^2$, reached three ways

violet: Lyman-α **1215** ÷ 3 = **405** ($3^4\cdot5$) · nine lines from the record's faces of hydrogen

ABSTRACT

A virus sitting on a doorknob is not alive. It is a parcel of instruction with no engine — an address written down, with nothing running to read it. It can lie inert for years, and then, touched to a living cell, make thousands of copies of itself in an afternoon. A parasite is the opposite: fully alive, carrying its own engine, but living off a host it gives nothing back to. Between them they cause much of the illness the world has ever known.

This paper reads infection in the Universal Force of Time, in full. **Part I sets out viruses and parasites as medicine knows them** — what a virus is and how it takes over a cell, how a parasite such as malaria feeds, why RNA viruses outrun our drugs, why a retrovirus such as HIV cannot be cured by suppression alone, and the prion that infects with no code at all. It also sets out what laboratories have found in the last few years by shining **specific wavelengths** on microbes: **far-ultraviolet light at 222 nm** killing airborne bacteria and coronaviruses while sparing human skin, where the older 254 nm lamp damages it, and **violet light at 405 nm** clearing bacteria from hospital surfaces.

Part II reads infection in the theory. To be alive is to carry T-flow: to hold an address and run the flow that reads it. A virus has the address and not the flow, so it can only borrow; a parasite has both but is filed to the wrong register, so it drains. And the two killing wavelengths are not arbitrary. The 222 nm band holds nine exact lattice lines, among them **222.0660990245106 nm = $(3\pi/2)^2$** — the square of the speed of light, read as a mass and doubled — reached three separate ways, and **222.2222222222222 nm = 2000/9**. The 405 nm band holds nine more, each **hydrogen's Lyman line divided by three** — 1215 ÷ 3 = 405 — among them **405 nm exactly [$3^4\cdot5$]**, and the two air faces of Hβ that come from the proton.

Part III reads the illness as four things done to one host register — the virus hijacks, the parasite drains, the RNA address drifts, the retrovirus integrates — each paired with its correction: defend, restore, box, excise. They are bound by the penetration ladder: the deeper the agent has gone, the more the remedy must do. Fifteen propositions, P-VIR-1 to P-VIR-15, are stated. The research groups whose wavelengths are read here are credited in full, and the theory's exact lines within them are offered back to them to test. Every number is at full precision; the corrective detail is held in the Foundation's clinical reference. The structure resolves into the clinical trial.

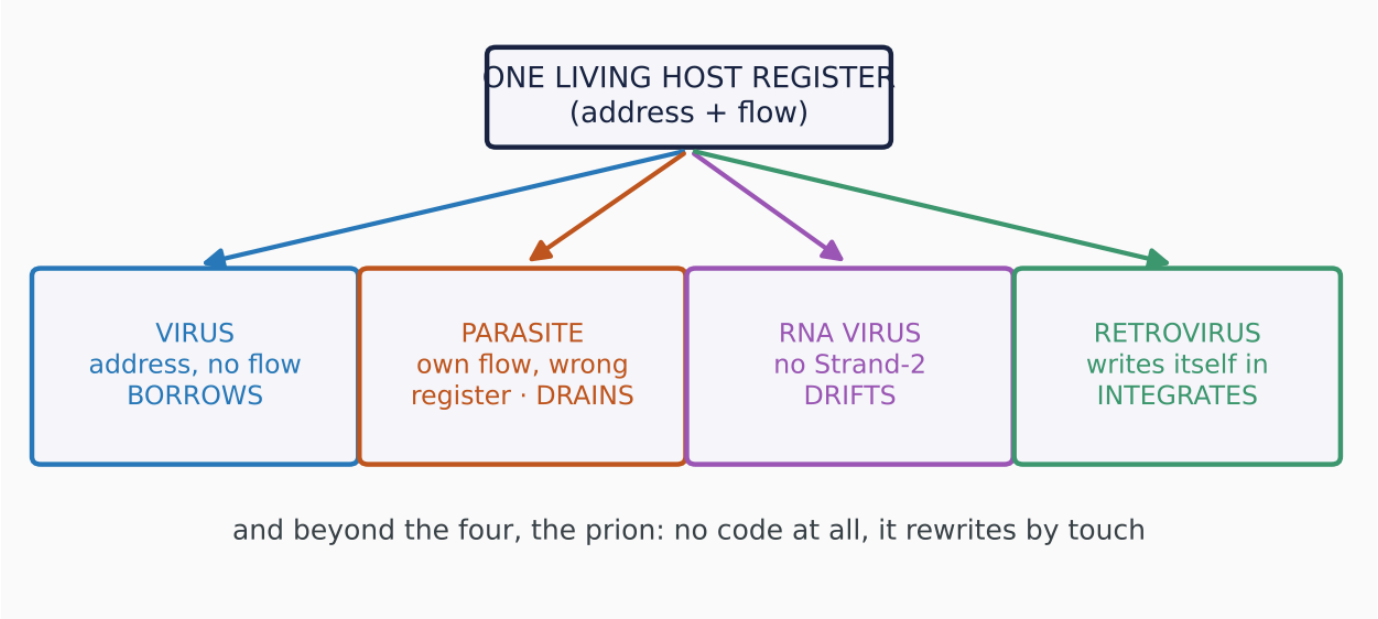


Figure 1 — One living host register and the four things a foreign agent can do to it. Each agent is named by what it carries: a virus carries an address but no flow and borrows; a parasite carries its own flow on the wrong register and drains; an RNA virus has no Strand-2 and drifts; a retrovirus writes itself into the genome. Beyond the four lies the prion, which carries no code at all.

THE TERMS THIS PAPER USES

T, the substance. Tau (T) is the living fabric of time itself, the one substance of which everything is made. It is generated by the Sun and flows outward as the DNA double helix, creating matter and creating life. Everything a body does — a heartbeat, a breath, the holding of its warmth — is T moving in a structured way.

An address. Every value in this framework is a product of powers of 2, 3, 5 and π, and nothing else. That product is the value's address, and the set of all such products is the lattice. A number that needs any other prime is not on the lattice.

Number first. Every value is written with its number first, as a reader meets it, and its address in brackets behind it. The number is what is there; the address is how it is built.

The free decade. Moving a value by a power of ten costs nothing on the lattice, because ten is two times five: the move shifts twos and fives together and changes nothing else. That is why 24 millimetres and 0.024 metres are one address.

The π-degree. The degree of an address is the power of π it carries, and the degree says what kind of thing the value is. An even degree is a **room** — a state, a thing that sits; it pairs, like a pair of circles. An odd degree is a **road** — a transport, a thing that carries; it is the unpaired circle. A half degree is a **door** — a source, which squares to a whole address.

The day, 864. The day is 86,400 seconds [$2^7 \cdot 3^3 \cdot 5^2$], written 864 at its decade. It is the ground state of the DNA helix and the gear through which a per-second value becomes a per-day value.

The time ladder. A rate given per second is carried up the clocks by fixed steps: × 60 to the minute, × 60 to the hour, × 24 to the day. The amount is the same; only the choice of clock changes — the same quantity counted in seconds or counted in days. From the day the orbit is completed one of two ways — × 360 gives the year as a degree value, × 2π gives the year as a radian value. The two answers are two faces of one year, and both are read.

The two gears. Two numbers carry energy between the theory's registers and appear throughout the record. **10,368** [$2^7 \cdot 3^4$] carries an energy in electron-volts to kilojoules per mole. **31,104** [$2^7 \cdot 3^5$] carries an energy in electron-volts to a circumference. When a quantity of the body lands on one of them, it is speaking in the theory's own units.

The veil. The veil is 180/π = 57.29577951308232, the number that turns radians into degrees. In the Universal Force of Time a wavelength in nanometres is an angle in degrees directly; multiply it by π/180 — cross the veil — and the bare value it carries appears.

The register, and what it is to be alive. A register is a level at which T is read. A living node holds an **address** — its instruction, written in its genetic code, the **Strand-1** of the double helix — and runs the **flow** that reads and governs that address, the **Strand-2**. To be alive is to carry both. An infection is something foreign done to one living host register.

The conversion grammar. One value takes several forms, and fixed steps move it between them: a frequency divided by 2π is a free fall; a free fall times 49.5035535 [7776/(50π)] is a wavelength; a wavelength times π²/8 is a mass.

Free fall. In the Universal Force of Time there is no gravity, and a free fall is not a pull. It is the flow of time at a place, in metres per second, every second — time showing itself in one more form, which current science takes for a gravitational fall. A planet makes one turn; where the turn comes in at less than 24 hours, time makes up the difference with a flow at that place, height or depth, so that the turn and the flow together make 24 hours. For the Earth, the free fall on the celestial register, **9.818362093946918** [$5^{12}/(2^7 \cdot 3^9 \cdot \pi^2)$], times 2400 — the 24-hour day, carried two decades — is the Earth's sidereal rotation, **23,564.06902547260** [$5^{14}/(2^2 \cdot 3^8 \cdot \pi^2)$]: 23 hours, 56 minutes and 4 seconds on the clock.

The speeds of light. The theory's speed of light on the lattice is 300,000 km/s [$3 \cdot 10^5$] exactly. The record also reads it on its three registers: on the Earth's surface, G1, 299,789,233.6830893 m/s [$2^3 \cdot 3^5 \cdot 5^6 \cdot \pi^2$]; one register up, G2, and one register down, G0, each one G-bond step away.

The three registers, G0, G1 and G2. The record reads the same value at more than one level: G1, the surface register of the Earth; G2, the celestial register; G0, the register below. A value and its neighbour one register up stand one **G-bond step** apart, 1.000090150603356 [$5^{10}/(2^4 \cdot 3^9 \cdot \pi^3)$].

The 612 step. A second fixed step, 1.000612842467911 [$2^9 \cdot 3^5 \cdot \pi/5^8$] — helium's weight divided by four, and 36,864 × 864 × π read at its decade. Where a family of lines stands G1, G2 and then one step further, the further step is this one.

The helical turn. The helical turn, 1.004693930041152 [$5^6/(2^6 \cdot 3^5)$], is the step by which the DNA helix climbs one turn. A value carried "one helical turn up" is multiplied by it.

What a landing is worth. Multiply or divide two lattice numbers and the answer is always on the lattice; that much is guaranteed and is not evidence. What counts is a result that lands on a **named object** the theory had already fixed — the day, the speed of light, hydrogen's blue line, the proton — at a bare power of ten. Each such landing in this paper is marked as arithmetic or as a landing, in its own sentence.

PART I — VIRUSES AND PARASITES AS MEDICINE KNOWS THEM

1. The virus

A virus is a short length of genetic code — DNA or RNA — wrapped in a coat of protein and, in many cases, an outer envelope of fat taken from the last cell it left. It has no metabolism of its own: it cannot make energy, build protein or copy itself. Outside a cell it is inert, and some viruses can be crystallised like salt. Inside a cell everything changes. The virus attaches to a receptor on the cell's surface, enters, and releases its code; the cell's own machinery reads that code as if it were the cell's own instruction and builds what it specifies — more virus — until the cell is spent and bursts, or buds off new particles until it dies. Biology has long argued over whether such a thing is alive.

Whole virus particles range in size from tens to hundreds of nanometres. Commonly quoted textbook diameters are about **30 nm** for poliovirus, **90 nm** for adenovirus, **120 nm** for HIV and **300 nm** for the poxviruses.

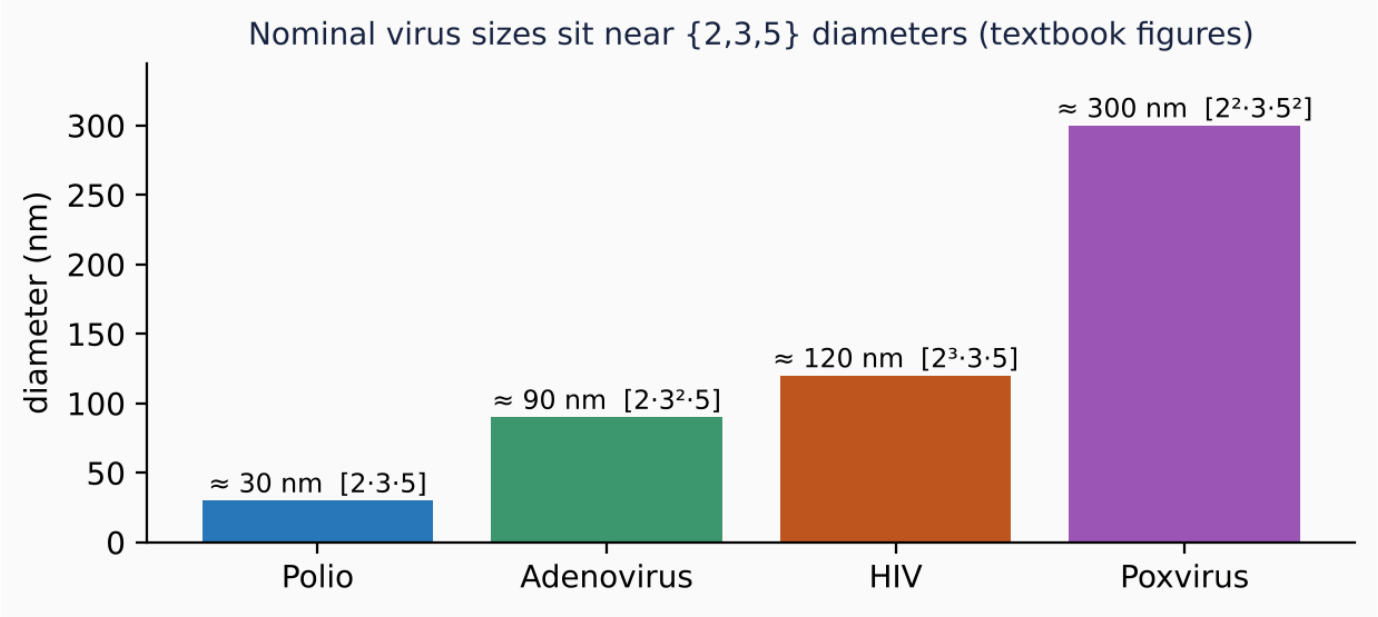


Figure 2 — Nominal virus sizes. Commonly quoted diameters for four viruses — rounded textbook figures, offered as context only.

2. The parasite

A parasite is a fully living organism — single-celled like the malaria parasite *Plasmodium*, or many-celled like a worm — that lives in or on a host and feeds from it. Malaria is the clearest case. The parasite spends part of its life inside red blood cells, where it consumes haemoglobin, the oxygen carrier, and in particular deals with **haem**, the iron-holding ring at the centre of haemoglobin. That ring is a **porphyrin**; its relative with magnesium at the centre is chlorophyll. The host is left anaemic and exhausted. Many antimalarial drugs work by blocking the parasite's handling of the haem it frees.

3. Resistance — why RNA viruses outrun drugs

DNA viruses copy their code with enzymes that proofread; most RNA viruses do not, and they mutate on the order of ten thousand times faster. A drug is shaped to fit one site on one viral protein. When the virus mutates, the site changes shape and the drug no longer fits: resistance. That is why influenza, HIV and the coronaviruses escape single drugs, and why HIV and tuberculosis are treated with combinations — a virus that must escape two or three drugs at once rarely can.

4. Integration — why HIV is not cured

A retrovirus such as HIV copies its RNA into DNA and splices that DNA permanently into the chromosomes of the cells it infects, where it sits as a **provirus**, copied with the cell's own genes at every division. Modern drugs suppress HIV so well that a treated patient can carry no detectable virus for decades — but the provirus remains in resting cells, and when treatment stops the virus returns. Suppression cannot remove what has become part of the cell's own genome. Gene editors that cut DNA at a chosen site, guided by a sequence of about **20 bases**, are being tested as a way to cut the provirus out.

5. The prion

At the edge of the subject sits the prion: not a virus, not an organism, but a single misfolded protein. It carries no genetic code. It spreads by contact — a misfolded prion touches a normally folded copy of the same protein and causes it to misfold too — and in the brain the misfolding spreads until tissue fails, as in Creutzfeldt–Jakob disease.

6. What specific light has done to microbes

Ultraviolet light has been used to kill microbes for a century, almost always at **254 nm**, the line of the low-pressure mercury lamp. It works, but it damages human skin and eyes, so it can only be used in empty rooms. In the last few years laboratories have reported two wavelengths that change this. These are their results as they reported them; the wavelengths this paper works with in Section 11 are theirs, and the credit for finding that they act is theirs.

222 nm far-ultraviolet. Light at **222 nm** kills microbes but cannot pass the outer dead layer of human skin or the tear film of the eye, so it can be used while people are present. David Brenner's group at Columbia showed in 2020 that low doses of 222 nm light inactivate airborne human coronaviruses (*Scientific Reports*, 2020). Ewan Eadie's group in Dundee, with Brenner, found that five filtered 222 nm lamps in a room-sized chamber cut airborne *Staphylococcus aureus* by 98.4 per cent — the equivalent of 184 extra air changes an hour — within skin exposure limits (*Scientific Reports*, 2022). Takahiro Niikura's group at Kobe exposed surgical tissue to 222 nm and to 254 nm: at 222 nm there was no significant DNA damage in muscle, bone or cartilage, while at 254 nm between 17 and 52 per cent of cells were damaged, despite a two-and-a-half-times smaller dose (*Photochemistry and Photobiology*, 2022). David Welch and the Brenner group exposed hairless mice to 222 nm daily for sixty-six weeks and found no skin cancers or pre-cancerous change.

405 nm violet. Visible violet light at **405 nm** kills bacteria by exciting porphyrin molecules inside them, which release reactive oxygen. Michelle Maclean's group at Strathclyde, who developed the method, reported in 2026 that 405 nm light cut surface bacteria by 97 to 99 per cent and strongly inhibited the formation of biofilms (*Proceedings of SPIE*, 2026). Francesco Restelli's group in Milan lit a neurosurgical ward with 405 nm and found more surfaces clean at five months than in a comparison ward, though the difference had gone by one year (*Neurosurgery*, 2025).

That is infection as medicine knows it, and the light results as the laboratories found them, given in full because what follows reads every part.

PART II — INFECTION IN THE UNIVERSAL FORCE OF TIME

7. To be alive is to carry T-flow

Biology has never settled whether a virus is alive because it asks the wrong question. The Universal Force of Time answers it cleanly. **To be alive is to carry T-flow.** A living node does two things at once: it holds an address — the instruction written in its genetic code, the Strand-1 of the double helix — and it runs the flow that reads, regulates and renews that address, the Strand-2 governor that turns instruction into ordered life. A virus has only the first. It is an address written down with nothing running to read it: a **flow-less T-template**. That is why it is neither alive nor dead but waiting — it can do nothing until it finds a node whose flow it can borrow.

A parasite is the other way about: it carries both address and flow — it is fully alive — but it is filed to a register the host cannot share, and it lives by tapping the host's flow and returning nothing. An RNA virus carries a single strand: an address with no governor to hold it still. A retrovirus carries an address that writes itself into the host's own. And the prion is what is left when even the address is taken away and only the misfolding remains: proof that infection, at bottom, is about addresses being rewritten, not about any particular molecule carrying a code. **Name what an agent carries and you have named what it can do.**

8. The sizes

The nominal diameters of whole virus particles — about 30, 90, 120 and 300 nm for polio, adenovirus, HIV and the poxviruses — all sit on {2,3,5}: 30 [$2\cdot3\cdot5$], 90 [$2\cdot3^2\cdot5$], 120 [$2^3\cdot3\cdot5$], 300 [$2^2\cdot3\cdot5^2$]. These are rounded textbook figures, and round figures sit on the lattice easily, so the clustering is offered as suggestive of register structure and no more. Where the lattice would have liked a cube it did not get one: HIV is quoted near 120, not 125 [5^3], and the cube is not forced.

9. The 222 nm line is the square of the speed of light

The far-ultraviolet light that kills microbes while sparing skin sits near 222 nm. In the Universal Force of Time a wavelength is a value, and a value that does work sits on the lattice. Stephen Daubney's chain for this one is short and striking. The theory's speed of light on the lattice is 300,000 kilometres a second [$3\cdot10^5$]. Square it: **9**, at its decade. Read that as a wavelength and carry it to a mass, times $\pi^2/8$: 11.10330495122553. Double it: **22.20660990245106 — 222.0660990245106 nm, which is $(3\pi/2)^2$ [$3^2\cdot\pi^2/2^2$]**, a room.

The square of the speed of light is the number that turns mass into energy. The light that destroys a microbe's code while passing harmlessly over the dead outer layer of human skin is, in this reading, the speed of light squared, read as a mass and doubled.

And the line is reached by more than one road. The theory's free fall of exactly **54** [$2\cdot3^3$], met in the companion paper on NAD as the first of three linked values (54, 54.00486813258123 and 54.03796460924681, one G-bond step and one 612 step apart), can be read as a frequency. Each of the theory's four speeds of light divided by each of those three frequencies, taken two-fifths of the way, gives a line near 222 nm — and **three of the twelve land**

on the same line, (3π/2)²: the surface speed of light against 54, the celestial speed against its own celestial frequency, and the lattice speed against the frequency one 612 step on. Each register's speed matched to its own frequency arrives at one place.

THE 222 NM LINES, NUMBER FIRST

speed / frequency (x 2/5)	line (nm)	kind	
lattice c / 54	222.2222222222222	room	= 2000/9 [2^4.5^3/3^2], no pi
lattice c / 54.00486813258123	222.2021905606761	road	
c G2 / 54	222.0861184173226	road	
lattice c / 54.03796460924681 }			
c G1 / 54 }	222.0660990245106	room	= (3pi/2)^2 - three ways
c G2 / 54.00486813258123 }			
c G0 / 54 = c G1 / 54.00486...	222.0460814362962	road	
c G0 / 54.00486813258123	222.0260656525168	room	
c G2 / 54.03796460924681	221.9300908399365	road	
c G1 / 54.03796460924681	221.9100855118368	room	
c G0 / 54.03796460924681	221.8900819870669	road	

neighbouring lines stand one G-bond step (1.000090150603356) or one 612 step (1.000612842467911) apart

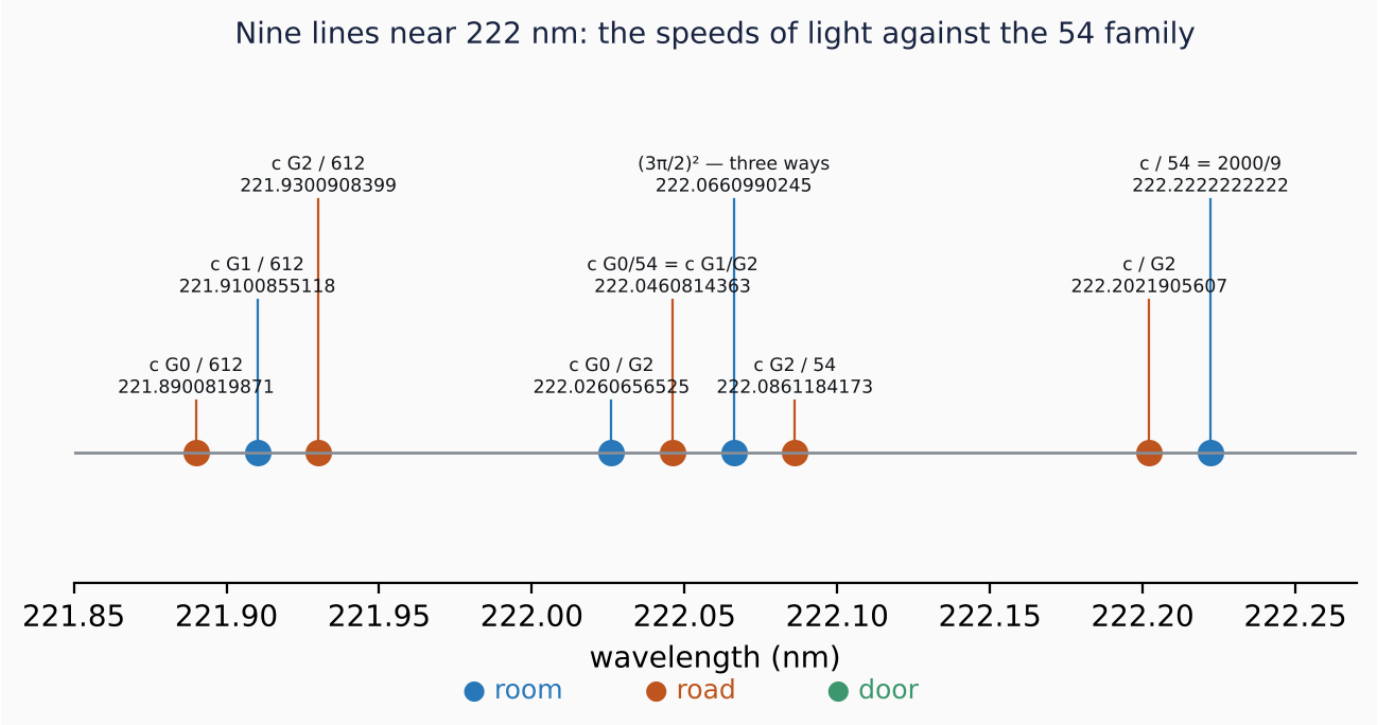


Figure 3 — Nine lattice lines lie in the 222 nm band. Each is one of the theory's speeds of light divided by one of the 54 family, two-fifths of the way. Three routes meet on (3π/2)², the speed of light squared read as a mass and doubled; the lattice speed against 54 gives 2000/9.

10. The 405 nm line is hydrogen's Lyman line divided by three

Violet light at 405 nm kills bacteria by exciting the porphyrins inside them. Stephen Daubney's reading of this band is one step from hydrogen. Hydrogen's first ultraviolet line, **Lyman-α, is 121.5 nm** — written 1215 at its decade — and it is a quarter of the blue Balmer line Hβ, 486 [2·3⁵]. **Divide the Lyman line by three and you have 405 [3⁴·5]**, exactly, with no π. So the violet line is the Lyman series divided by three; and since each Lyman face is a quarter of a face of Hβ, every face of Hβ the record holds — divided by four for its Lyman face, then by three — carries over to a 405 line of the same kind. The record holds nine faces of Hβ, each reached by its own chain.

THE 405 NM LINES, NUMBER FIRST (each = a Lyman face / 3 = an H-beta face / 4 / 3)

H-beta face (nm)	address	405 line (nm)	kind	
485.9561907561986	2^5.3^14.pi^3/5^10 (G0)	404.9634922968322	road	
486	2.3^5 (G1)	405	room	= 3^4.5
486.0219061029146	sqrt3.5^5/(2.pi^1.5) (dual)	405.0182550857622	door	
486.0438131932311	5^10/(2^3.3^4.pi^3) (G2)	405.0365109943593	road	
486.1346329988157	bound proton, measured air	405.1121941656798	door	
486.1390709859538	free proton, the air comb	405.1158924882948	door	
486.1708107248373	2^3.5.3^3.5/pi	405.1423422706977	door	
486.2978414394047	the quantum base x 4/3	405.2482011995039	road	
486.3416814832213	4800/pi^2, the Moho x 4/3	405.2847345693511	room	

the first four stand G0, G1, the dual and G2 - one G-bond step from G0 to G1 and from G1 to G2

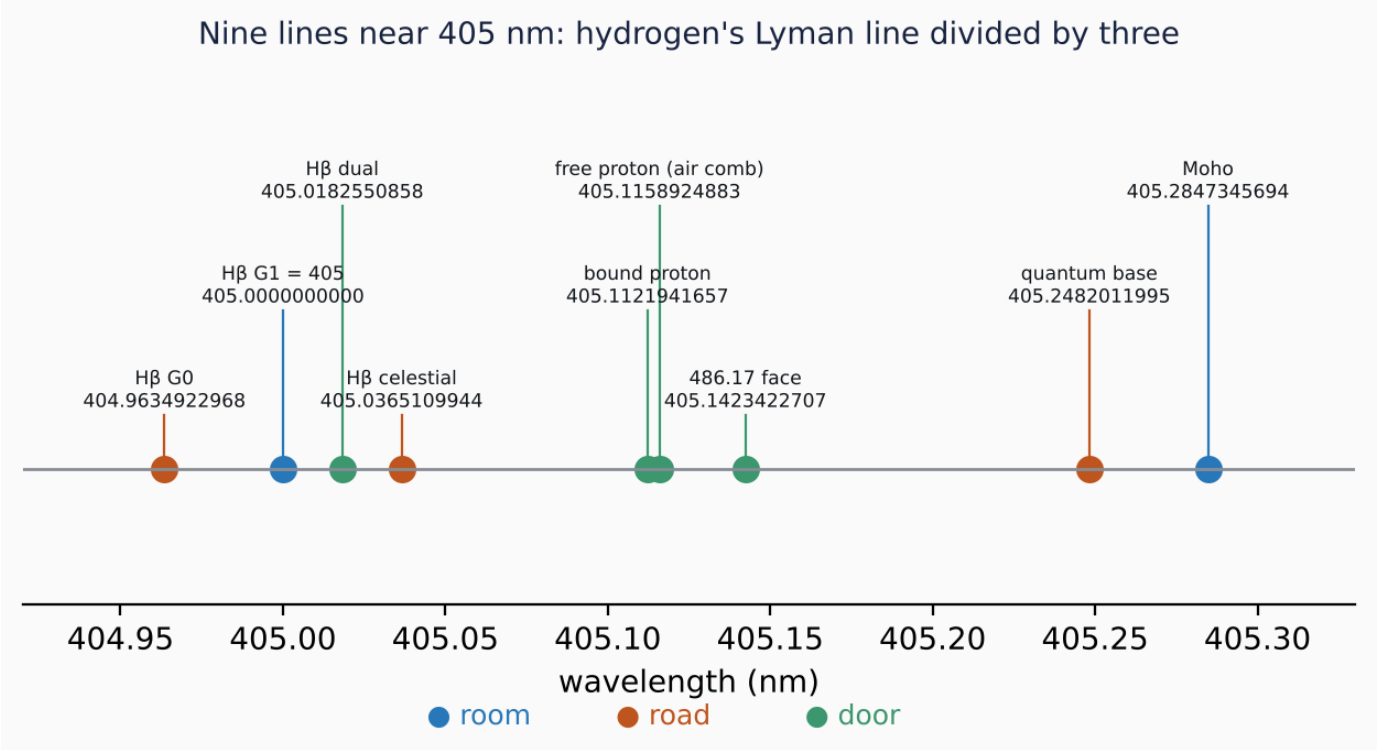


Figure 4 — Nine lattice lines lie in the 405 nm band, each a Lyman face of hydrogen divided by three — one of the record's faces of Hβ divided by four, then three. Hβ on the surface register gives 405 exactly; the two faces of Hβ in air — one from the free proton, one from the bound proton — give 405.1158924882948 and 405.1121941656798.

Two of the nine come from the proton. The record's air Balmer comb, 486.1390709859538, lives on the free-proton rung; and the bound proton, carried through the atomic-weight dimension rather than the kilogram mass, lands on 486.1346329988157 — on science's own measured value for Hβ in air. The violet light that kills bacteria is, in this reading, hydrogen's own blue line — the line the proton writes — carried to its Lyman face and divided by three.

And the ring it acts on is the one Part III meets again. The porphyrins that 405 nm light excites inside bacteria are the same family of ring as the haem the malaria parasite drains from the blood and the chlorophyll that takes in the Sun's light in a leaf: one ring structure, branched on {2,3}, carrying oxygen in the blood, receiving the Sun in the leaf — and, in a bacterium, taking in hydrogen's violet and destroying the cell that holds it.

11. The lines the theory offers the research

Where these wavelengths come from. The 222 and 405 nm wavelengths are not this paper's discovery. They come from the research groups whose work is set out in Section 6: David Brenner's group at Columbia, Ewan Eadie's group in Dundee and Takahiro Niikura's group at Kobe for 222 nm (references 6 to 8), and Michelle Maclean's group at Strathclyde and Francesco Restelli's group in Milan for 405 nm (references 9 and 10). It was their results that pointed this paper to these two parts of the spectrum, and their work is the supporting evidence on which these sections are built. What this paper adds is the theory's reading of those wavelengths: the exact

lattice lines that lie within them, each with the chain that reaches it — offered to those groups, and to any team so minded, as specific lines to test.

The theory does not rank the lines; every one is a lattice value reached from something the record already holds, and which gives the strongest result — the most microbes killed for the least harm to the host — is a question only an experiment can answer. The nine lines near 222 nm span about a third of a nanometre and the nine near 405 nm about the same. The far-ultraviolet lamps in use are filtered excimer lamps whose output spreads over several nanometres, and 405 nm LEDs spread wider still, so each shines all the lines of its band at once. To test them one by one a laboratory needs narrow-line, tunable light, held and checked at the line. The lines are given as values only; how any light is given in a room or to a person is held in the Foundation's clinical reference.

PART III — FOUR ROUTES, FOUR CORRECTIONS

12. One host register, four things done to it

A medical paper of the Universal Force of Time acknowledges the illness, reads the problem as the distinct routes by which it arises, and pairs each route with the correction that would set it right. In infection the problem is plainly not single. Every infection, from a head cold to malaria to HIV, is one foreign agent doing something to one living host register — and there are only four things that can be done. A virus can **borrow** the host's flow; a parasite can **drain** it; an RNA address can **drift** within it; a retrovirus can **integrate** into it. Four routes, because four is the honest count, and they are sorted by how deeply the agent has entered the host — the penetration ladder — because that decides how much the remedy must do.

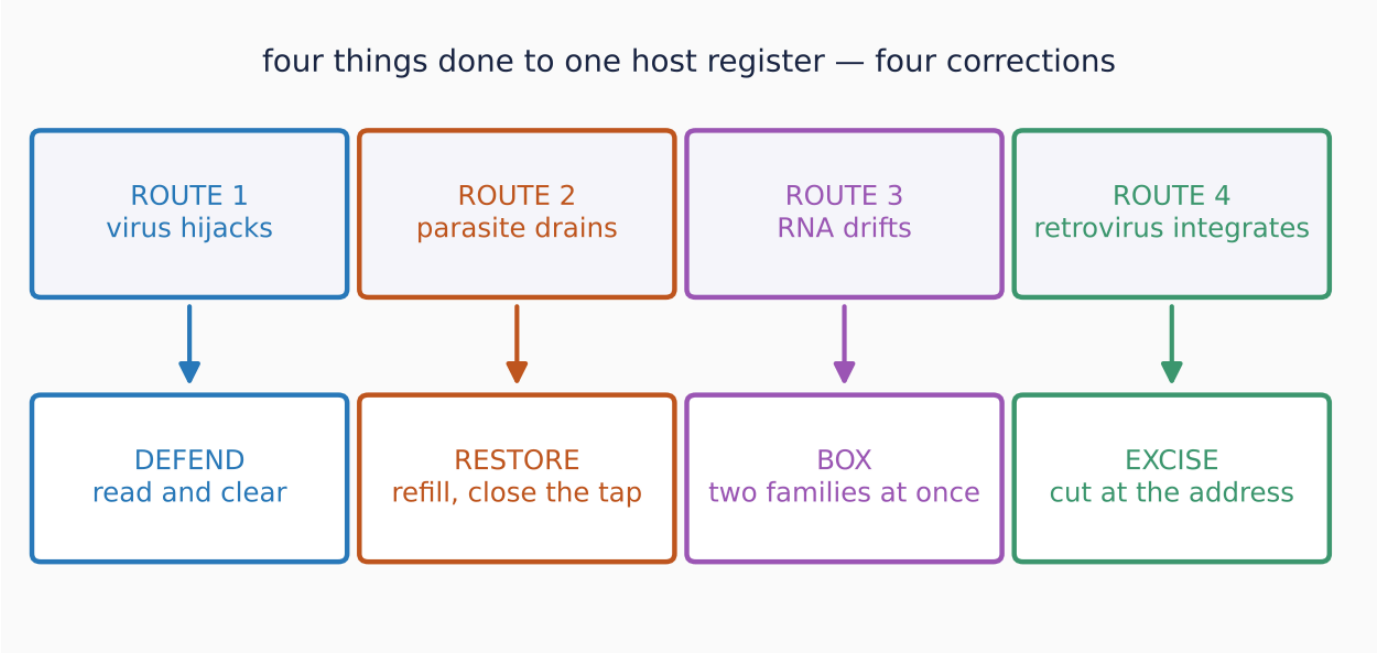


Figure 5 — The architecture of the paper. Four things done to one host register, each paired with the correction that answers it: viral hijack — defend; parasitic drain — restore; RNA drift — box; retroviral integration — excise.

13. Route 1 — the virus hijacks the host register

A virus is a flow-less template. Let it into a living cell and the cell's own flow — the engine the virus lacks — begins to read the viral address as if it were the cell's own, and builds what it specifies until the cell is spent. The host is not poisoned from outside; it is turned against itself, running a borrowed instruction to its own ruin. And because the virus only borrows — it has added a false address but altered nothing of the host's own — this is the most recoverable of the four.

Correction 1 — defend: read and clear the mismatched address before the cell is spent. The immune system, in the theory, is a fleet of T-sentinels whose work is to read every address a cell displays and ask whether it belongs. A cell running a viral template displays a mismatched address, and a healthy sentinel reads the mismatch and removes the cell before the virus has finished copying. Every antiviral defence — interferon raising the alarm, killer cells deleting the infected cell, antibodies tagging loose particles — is this one principle: read the address,

and clear what does not belong. And the defence can begin before the virus reaches a cell at all: light at the 222 nm lines destroys the template in the air and on surfaces, outside the host, where the borrowed address has not yet been read. The principle is reading and clearing; the specific means are held in the Foundation's clinical reference. A borrowed register, defended in time, leaves nothing behind.

14. Route 2 — the parasite drains an incompatible carrier

A parasite is fully alive — address and flow — but filed to a register the host cannot share, and it survives by tapping the host's T-energy and giving nothing back. Malaria drains the blood's iron–porphyrin register, the haem ring at the centre of haemoglobin, and the host pays in anaemia and exhaustion. This is a drain, not a hijack: the host's instructions are untouched, but its carrier is being emptied.

Correction 2 — restore: refill the carrier and close the tap. If the fault is a carrier being emptied, the correction has two halves that go together: restore what is drained, rebuilding the iron–porphyrin register so the host is not left anaemic while the infection is fought; and deny the drain its supply, cutting off what the incompatible organism needs to continue. The historical antimalarials attack the parasite's handling of the very haem it drains — the same logic read from the parasite's side. The principle is restoration of the drained carrier; the agents and the means of denying the drain are held in the Foundation's clinical reference.

15. Route 3 — the RNA address drifts off the drug node

An RNA virus carries only Strand-1: instruction with no governor. With no Strand-2 to hold the address fixed, it drifts at every copying — RNA viruses mutate on the order of ten thousand times faster than DNA viruses, an order of magnitude and not a lattice constant. A drug is cut to fit one node, one precise address; the address drifts a step past it, and the drug, still perfectly shaped for an address that is no longer there, grips nothing. Resistance is not the virus growing stronger — it is the target moving while the weapon stays aimed.

Correction 3 — box it on two prime families at once. If one drug fails because the address drifts past its one node, the correction is to pin the virus on two nodes at once, drawn from different prime families — an address on {2,3} and an address on {5,π}. One drift cannot move both: the drift that frees it from the first leaves it caught by the second. Joint escape is the product of two improbabilities, not their sum, and the virus is boxed. This is why combination therapy turned HIV into a managed condition and why tuberculosis is fought on a multi-drug front. The theory sharpens it to a prediction: combinations drawn from two different prime families should box a virus better than two aimed at the same family. Which addresses, on which families, is held in the clinical reference.

16. Route 4 — the retrovirus integrates into the genome

A retrovirus writes its template permanently into the host's genome, where it is copied thereafter as part of the self. Suppression quiets the register; it cannot remove it. A thing made part of the self cannot be cleared by defending against it from outside.

Correction 4 — excise the register at its address. If the fault is a template integrated into the self, the only true correction is to cut it out at its address. That needs an instrument able to find one site among three billion bases and act only there — an address-precise editor whose guide is long enough to be unique and no longer. The guide a modern gene editor uses is **20 bases [$2^2 \cdot 5$]**, and that is not arbitrary: twenty is close to the shortest code that names a single site in a genome of that size; shorter, and the address is ambiguous. The principle is excision at the address — the register removed, not silenced; the guides, editors and delivery are held in the Foundation's clinical reference.

17. The order law — the penetration ladder

The four corrections are not interchangeable, and the way they bind is one line: **the harder an agent is to be rid of, the more the remedy must do — defend what is only borrowed, cut out what has been made part of the self.**

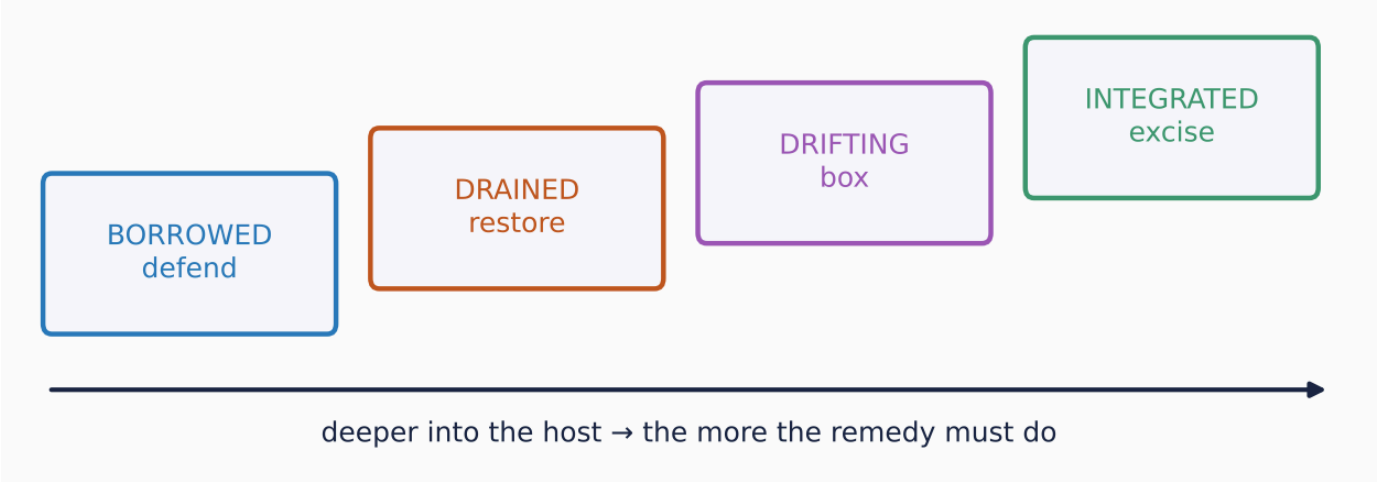


Figure 6 — The penetration ladder. Borrowed, drained, drifting and integrated, read in order of how deeply the agent has entered the host. The deeper the penetration, the more decisive and precise the correction must be.

A borrowed register is defended; a drained carrier is restored; a drifting address is boxed; an integrated provirus is excised. The dividing line falls after drift: borrowed, drained and boxed are all clearable while the agent remains in some sense separate from the host, but the integrated provirus has crossed into the self and must be cut out. And the earliest rung of the ladder can be met before the host is touched at all: the light at the 222 and 405 nm lines acts on the agent in the air and on surfaces, where nothing has yet been borrowed.

18. The resolution — the clinical trial is the next step

Lay the four side by side and the miscellany resolves. We have acknowledged the illness — infection told not as a bestiary of unrelated germs but as four things that can be done to one living host register. We have read what an agent is by what it carries, and found the line between living and not-living in the theory's own terms: to be alive is to carry T-flow. We have read the two wavelengths that kill microbes and found them on the lattice — the far-ultraviolet as the speed of light squared, reached three ways; the violet as hydrogen's Lyman line divided by three, two of its faces written by the proton. We have read the problem as four routes and given for each its correction — defend, restore, box, excise — and bound them with the penetration ladder. And we have set out, for the research groups whose wavelengths these are, the exact lines the theory finds within them.

The corrections are stated as principles precisely because the next step is not to prescribe them to a reader but to put them to a clinical trial.

PROPOSITIONS

- **P-VIR-1.** To be alive is to carry T-flow: a living node holds an address (Strand-1) and runs the flow that reads it (Strand-2). A virus is a flow-less T-template, able to act only by borrowing a host's flow.
- **P-VIR-2.** Every infection is one foreign agent doing one of four things to one living host register: borrow, drain, drift, integrate.
- **P-VIR-3.** The prion — no code, rewriting by contact — shows that infection at bottom is the rewriting of addresses.
- **P-VIR-4.** Nominal virus diameters (30, 90, 120, 300 nm) sit on {2,3,5}; the reading is suggestive only, and the 125 [5^3] cube is not forced.
- **P-VIR-5.** The far-ultraviolet line 222.0660990245106 nm is $(3\pi/2)^2$ — the lattice speed of light squared, read as a mass and doubled.
- **P-VIR-6.** The same line is reached three ways from the speeds of light and the 54 family — each register's speed against its own frequency; the 222 band holds nine lattice lines, 221.8900819870669 to 222.2222222222222 [2000/9].
- **P-VIR-7.** The violet line 405 nm is hydrogen's Lyman line divided by three: Lyman-α 121.5 nm (1215 at its decade) = Hβ 486 [$2\cdot3^5$] ÷ 4, and 1215 ÷ 3 = 405 [$3^4\cdot5$]; the record's nine faces of Hβ give nine 405 lines, 404.9634922968322 to 405.2847345693511.

- **P-VIR-8.** Two of the 405 lines come from the proton — the free-proton air comb (405.1158924882948) and the bound proton on the measured air line (405.1121941656798).
- **P-VIR-9.** The porphyrin ring that 405 nm light excites in bacteria is the family of the haem the malaria parasite drains and of chlorophyll: one {2,3}-branched ring.
- **P-VIR-10.** Route 1: the virus hijacks. Correction 1: defend — read and clear the mismatched address; and destroy the template before it reaches the host.
- **P-VIR-11.** Route 2: the parasite drains. Correction 2: restore — refill the carrier and close the tap.
- **P-VIR-12.** Route 3: the RNA address drifts. Correction 3: box it on two prime families at once; joint escape is a product of improbabilities.
- **P-VIR-13.** Route 4: the retrovirus integrates. Correction 4: excise at the address, with a guide of 20 bases [$2^{2}\cdot5$], the shortest unique address.
- **P-VIR-14.** Order law: the penetration ladder — the deeper the agent, the more the remedy must do; the earliest rung can be met in the air, before the host is touched.
- **P-VIR-15.** Within each research wavelength the theory offers exact lines to test; it does not rank them, and narrow-line light is how the best is found.

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APPENDIX — EVERY NUMBER, REBUILT

Every value can be rebuilt with any calculator, from twos, threes, fives and π. The script V_calc.py, run at forty-four digits, asserts every station and stops if any fails; it passed in full.

```
THE OBJECTS, NUMBER FIRST
   lattice speed of light           300,000 km/s               3.10^5
   its square, as a wavelength      9                          3^2
   x pi^2/8 = mass ; x2             11.10330495122553 ; 22.20660990245106     (3pi/2)^2
   surface speed of light G1        299,789,233.6830893 m/s    2^3.3^5.5^6.pi^2
   the 54 family                    54 ; 54.00486813258123 ; 54.03796460924681
   G-bond step ; 612 step           1.000090150603356 ; 1.000612842467911
   222 lines                        221.8900819870669 ... 222.2222222222222 (nine)
   H-beta, surface                  486                        2.3^5
   Lyman-alpha ; / 3                121.5 (1215) ; 405         3^5/2 ; 3^4.5
   405 lines                        404.9634922968322 ... 405.2847345693511 (nine)
   virus diameters (nominal)        30 ; 90 ; 120 ; 300 nm     2.3.5 ; 2.3^2.5 ; 2^3.3.5 ; 2^2.3.5^2
   editor guide                     20 bases                   2^2.5
```

A NOTE ON THE NUMBERS

Throughout this paper a quantity is given first as the plain value a clinician or a laboratory would measure — a size, a wavelength, a length of code — and only then, in brackets, as its place on the {2,3,5,π} lattice. The bracket is the address; the physical number is the thing you can hold. Part I gives medicine's account, and the laboratories' results, as they give them; where medicine's figures are nominal or orders of magnitude, they are given as such. Parts II and III give the theory's own account, mark every result as arithmetic, a reading or a landing, and state the corrections as principles. The lattice lines within the research wavelengths are given in full as values, with their chains; how any light is given, and the corrective detail, are held in the Foundation's clinical reference and are not prescribed here.

The Daubney Foundation is in ongoing discussions with medical establishments regarding clinical trials of Universal Force of Time solutions to the conditions described in this paper. Any institution or researcher wishing to put themselves forward for participation in these trials is invited to make themselves known through: thedaubneyfoundation@gmail.com

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