The Frequencies of Time

Why the body answers some notes and refuses others — the healing, chakra and musical frequencies, the spiral of Theodorus and the golden ratio, read on the lattice of time

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A Note on the Term Tau (T). *Tau is shorthand for the living fabric of time itself. Conventional science treats time as a backdrop — a coordinate, a clock on the wall. The Universal Force of Time treats it as the one active substance of which everything is made. Time is created in the core of the Sun and flows outward, laying down matter at the nodal points we call planets and carrying life as it goes. Energy, light, the fall of a dropped stone and the bond between two atoms are all time, expressed in different forms. Every value time carries is an address written in powers of 2, 3, 5 and π. Wherever this paper says T-field or T-flow, read: the living fabric of time.*

Abstract

A frequency is time counted. Of all the ways the Universal Force of Time can be read, the frequency is the one that comes nearest to the thing itself: so many turns of the flow in one second. This paper takes the frequencies that have travelled furthest in popular culture — the nine so-called healing frequencies from 174 to 963 hertz, the seven chakra rows, and the twelve notes of a scale tuned to 432 hertz — and reads every one of them on the lattice of time.

The finding is simple to state. **The numbers as they are usually printed are almost all off the lattice**: 396 carries a stray 11, 528 an 11, 639 a 71, 741 a 13 and a 19, 963 a 107. By the book's own smoothness test, which says that a body built on 2, 3, 5 and π answers smooth frequencies and refuses any frequency carrying a larger prime, every one of them would be refused. Yet beside each printed number there sits a lattice value that differs from it only in the later decimals — and each of those lattice values turns out to be a frequency of something the theory already knows. 396.0284279944 is the Earth's own radius and the body's temperature node. 740.7407407407 is the hydrogen bond. 458.9881491193 is the sodium D line read through the year. 181.9165483209 is Mercury's orbit. 227.9726631953 is hydrogen's third energy level read as the distance of Mars. Between them the corrected frequencies keep the musical intervals the printed ones were built on — 528 is exactly four-thirds of 396, and 852 exactly four-thirds of 639 — because an interval built from 2, 3 and 5 is already a lattice ratio.

Along the way the paper reads the spiral of Theodorus (about 450 BC), finds the carbon tetrahedral angle 109.47122063° inside its second triangle, rebuilds the spiral on the helical turn r so that its third and twelfth triangles carry the Sun–Earth distance 1500 and the spin-orbit 3000, and derives a Force of Time golden ratio, **1.6180215938 = √(5π/6)**, from the golden angle the book already settles at 432/π. Twenty-one propositions, P-FREQ-1 to P-FREQ-21. No claim is made that any frequency treats any condition.

Every printed healing frequency is off the lattice by a hair. Put it back on, and each one turns out to be a frequency of something real.

1. A Number That Rings

There is only one force in the universe, and it is time. Everything else — the weight of your body, the colour of the sky, the warmth of your hand — is time showing itself in a different coat. If that is so, then the most direct way to read the universe is not by its masses or its distances but by its **frequencies**, because a frequency is simply time counted: so many turns of the flow in a single second.

That is why the frequency charts that circulate in their millions — the "healing" frequencies, the chakra tones, the claim that music tuned to 432 hertz sits more kindly in the body than music tuned to 440 — deserve a serious reading rather than a sneer. People who have never heard of the Force of Time have been circling something real: the sense that the body answers some numbers and not others. What they have lacked is a rule that says which numbers, and why.

The Force of Time has that rule. It has been in the unification book for months, in a chapter that asks why 432 and not 440. This paper takes the rule and applies it, number by number, to every frequency on those charts. It does not dismiss a single one of them. It does something more useful: it finds the number each chart was reaching for.

The work was done in one sitting, on 29 October 2026, with Stephen Daubney walking each frequency through the gears of the theory by hand and the arithmetic run behind him to fifty digits. Every chain in this paper is his; every figure in it was produced by the script that checked it.

2. What a Frequency Is

In the language of physics a frequency is a count of repetitions in a second, measured in hertz. A string vibrating 432 times a second sounds the A above middle C in one tuning; light of a certain colour repeats some six hundred million million times a second. Physics treats these as quantities of different things — sound, light, the spin of a proton in a magnet — that merely share a unit.

The Force of Time reads them as one thing. A frequency is the rate at which the T-flow turns at a given address. The same number that is a frequency at one register is a wavelength at another, a free fall at a third, a mass at a fourth. That is not a metaphor: the theory carries a fixed set of gears that move one value from coat to coat without changing what it is. Every chain in this paper is built from these gears and nothing else.

THE GEARS OF THE CONVERSION LOOP	
÷ 2π	**frequency → free fall** [one turn of the circle]
× 495.0355349930	**free fall → wavelength** [7776/(5π), the blue/cyan boundary]
× 1.2337005501	**wavelength → mass** [π²/8]
÷ 9375	**mass → radial mass** [3·5⁵]
× or ÷ 57.2957795131	**radians ↔ degrees** [180/π, the veil]
864	**the day** [2⁵·3³ — 86,400 seconds]
× 12 × 31104	**wavelength → circumference → electron-volts** [31104 = 2⁷·3⁵]
× 1.6075102881	**the mile gear** [5⁵/(2³·3⁵)]

One rule from the theory matters more than any other here. **Frequency is register-invariant; wavelength is register-dependent.** A frequency does not change when the flow passes from one register to the next — it is the one thing every register agrees on. That is why the frequency is the natural place to begin: it is the reading every dimension shares.

frequency × 2π ↔ turns per second × one whole turn

WHAT EACH PART IS

- frequency — the number of turns of the flow in one second
- 2π = 6.2831853072 — one whole turn of the circle, in radians
- ÷ 2π — takes a frequency to its free fall, the per-second reading of the same flow

WORKED EXAMPLE

396.0284279944 ÷ 2π = **63.0298819202**, the free fall of the 396 frequency (decade free).

639.0176013707 ÷ 2π = **101.7028099809**, the free fall of the 639.

A note on decimal points. Throughout, the decimal point is placed where the reader expects it — 396 hertz, 6370 kilometres — but the theory calculates with the digits, not the magnitude. 0.63700992, 6.3700992 and 6370.0992 are one number read in three registers. The closing Note on the Numbers explains why.

3. The Rule: Smooth Is Answered, Prime Is Refused

Every value in the Force of Time is an address on a lattice built from four numbers: 2, 3, 5 and π. A value is **on the lattice** when it can be written as powers of those four and nothing else. 432 = $2^4 \cdot 3^3$ is on it. 440 = $2^3 \cdot 5 \cdot 11$ is not: it carries the prime 11, which the lattice does not have.

The unification book states the consequence as a test. In the chapter "The smoothness test — why 432 and not 440" it puts it this way: a register built on the {2,3,5,π} lattice responds to frequencies that are themselves smooth — built only from 2, 3 and 5 — and resists frequencies carrying a larger, stray prime. A smooth note lands on a node the register already occupies. A prime-contaminated note has no node to land on, and the body must spend energy refusing it.

a value is on the lattice ⇔ value = $2^a \cdot 3^b \cdot 5^c \cdot \pi^d$

WHAT EACH PART IS

- a, b, c — whole numbers (positive, negative or zero); d — a whole number or a half
- no other prime may appear: 7, 11, 13, 17 and beyond are the "stray primes"
- the power of 10 is free — 10 = 2·5, so moving the decimal point never leaves the lattice

WORKED EXAMPLE

432 = $2^4 \cdot 3^3$ → **on**. 440 = $2^3 \cdot 5 \cdot 11$ → **off** (11).

396 = $2^2 \cdot 3^2 \cdot 11$ → **off** (11). 124416/π = $2^9 \cdot 3^5 \cdot \pi^{-1}$ → **on** = 396.0284279944.

3.1 Rooms, roads and doors

The power of π in a value is its **degree**, and the degree sorts every lattice value into one of three kinds. An even power of π (including none) makes a **room**; an odd power makes a **road**; a half power makes a **door**. The proton is a door. Free fall, 25π/8, is a road. The speed of light on the first register, $2^3 \cdot 3^5 \cdot 5^6 \cdot \pi^2$, is a room. The kind matters because the gears move a value between kinds in fixed steps — the veil 180/π lowers the degree by one, 2π raises it by one — so a chain can be followed through the kinds like a walk through a building.

kind	power of π	example
room	even (0, ±2, ±4 …)	740.7407407407 = 20000/27 (none)
road	odd (±1, ±3 …)	396.0284279944 = 124416/π
door	half (±½, ±3/2 …)	416.9868265179 (π^3/2)

3.2 Why a near miss is not a miss

A printed frequency such as 396 is not wrong in the way a typing error is wrong. It is a rounding. Somebody, somewhere, met a real value and wrote down the nearest whole number — and the nearest whole number happens to carry an 11. The test of the Force of Time is therefore not whether 396 is on the lattice (it is not) but whether a lattice value sits close beside it that is **something** — a frequency of an object the theory already holds. A lattice value can always be found near any number; that alone proves nothing. What counts is whether the value found has a job.

	value	factors	on the lattice?
printed	396	$2^2 \times 3^2 \times 11$	no
beside it	396.0284279944	124416 ÷ π = $2^9 \times 3^5 \div \pi$	yes — and it is the Earth's radius road

3.3 What refusal costs

The book is precise about what happens when a body meets a frequency it does not recognise. A smooth note lands on a node the register already holds, and the register answers it. A prime-contaminated note has no node to land on, so the body cannot answer — it dissipates the input as wasted power and excess heat. That is the measurable signature of a mismatch: not a feeling, but heat where there should have been response. It is why 432 is warmed to and 440 is felt by many listeners as brighter and more tiring, and it is the reason this paper takes every printed frequency and asks where its lattice neighbour lies.

432 = $2^4 \cdot 3^3$ against 440 = $2^3 \cdot 5 \cdot 11$

WHAT EACH PART IS

- 432 — the A of the scale tuned to the lattice; half of 864, the day
- 440 — the modern concert A; it carries the prime 11

WORKED EXAMPLE

432 = 16 × 27 = **$2^4 \times 3^3$** → a node the register holds → answered.

440 = 8 × 5 × 11 = **$2^3 \times 5 \times 11$** → no node → refused, and the input turns to heat.

4. The Spiral of Theodorus

About 450 years before Christ, Theodorus of Cyrene showed his pupils a way to draw the square roots. Start with a right triangle whose two short sides are 1 and 1; its long side is √2. Stand a new side of length 1 at right angles on that long side; the new long side is √3. Keep going, and the long sides run √2, √3, √4, √5 ... The triangles wind round a common point like the chambers of a shell. Theodorus stopped at √17, and the spiral is drawn that way to this day.

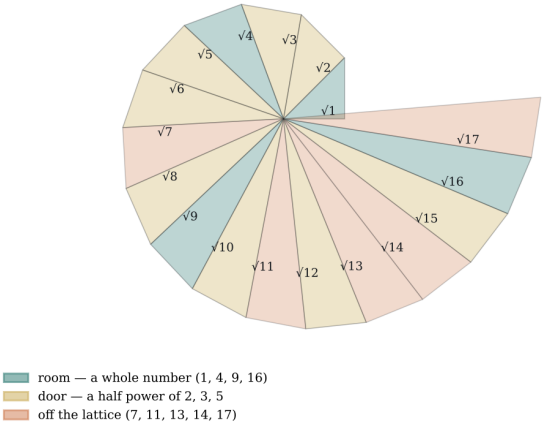


Figure 1. The spiral of Theodorus, triangles 1 to 17, each coloured by the long side it starts from. Teal: a room, a whole number. Gold: a door, a half power of 2, 3 and 5. Rust: off the lattice — the long side carries 7, 11, 13 or 17.

4.1 Which sides are on the lattice

The long side of triangle n is √n. Read on the lattice, the seventeen sides fall into three groups.

group	long sides	count
rooms — whole numbers	√1, √4, √9, √16 (1, 2, 3, 4)	4
doors — half powers	√2, √3, √5, √6, √8, √10, √12, √15	8
off the lattice	√7, √11, √13, √14, √17	5

Twelve of the seventeen are on the lattice. The spiral stays on it until 7 appears, and the first stray prime is exactly the one the Force of Time refuses at or inside the Earth's register. The spiral is built by adding — a side of length 1, every time — and it is the adding that lets the stray primes in, because a sum of lattice values need not be a lattice value.

4.2 The angles at the centre

Each triangle turns the spiral by the angle at its point, arctan(1/√n). Most of these angles are untidy. Four of them are not.

triangle	angle at the centre	what it is
1	45° exactly	π/4 — the violet/blue boundary, 450 nm, as an angle
3	30° exactly	π/6
2	35.2643896828°	180° − 2 × this = **109.47122063°**, the tetrahedral angle
8	19.4712206345°	the tetrahedral angle − 90°, exactly
4 + 9	26.5650511771° + 18.4349488229°	= 45° exactly

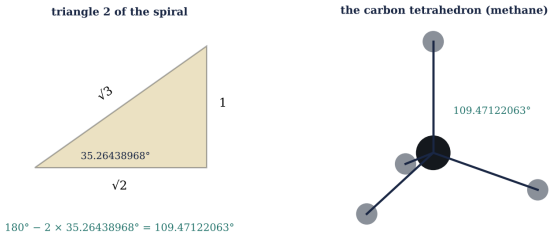


Figure 2. Triangle 2 of the spiral and the carbon tetrahedron. Two of the spiral's second angle, taken from a straight line, leave 109.47122063° — the angle between the bonds of methane and of every carbon in a diamond.

180° − 2 × arctan(1/√2) = 109.47122063449°

WHAT EACH PART IS

• arctan(1/√2) = 35.2643896828° — the angle at the centre of the spiral's second triangle, whose sides are 1, √2 and √3

• 109.47122063449° — the tetrahedral angle, arccos(−1/3), at which carbon holds its four bonds

• the same angle appears again in triangle 8: arctan(1/√8) = 109.47122063449° − 90°

WORKED EXAMPLE

35.26438968275° × 2 = 70.52877936551°; 180° − 70.52877936551° = **109.47122063449°**.

arctan(1/√8) = **19.47122063449°** = 109.47122063449° − 90°.

A drawing made from nothing but steps of length one, two and a half thousand years ago, carries in its second chamber the angle at which carbon holds its bonds — the angle of the methane molecule, of diamond, of every carbon atom that life is built on. The book holds the tetrahedral angle in its hybridisation chapter as one of the open angle-addresses; the spiral reaches it by a road no one had walked.

Triangles 1, 4 and 9 — the three whose sides start from whole numbers — together turn the spiral through exactly 90°: 45° from the first, and 26.5650511771° plus 18.4349488229° from the other two, which sum to 45° exactly. The rooms of the spiral make a right angle.

4.3 Why the drawing stops at seventeen

Add up all seventeen angles — 45° + 35.2643896828° + 30° + 26.5650511771° + … + 14.0362434679° + 13.6330222254° = **364.7834423488°**. Sixteen triangles leave it short of a full turn; the seventeenth carries it just past where it began, and the next would overlap the first. That is why Theodorus stopped where he did.

The figure is close to 364.7562611124, the Balmer limit, but a sum of arctangents is not a lattice value and the two are not one named step apart. It is recorded here as a coincidence, not a landing. Saying so plainly is part of the method: a theory that counts every near miss as a hit has no way of telling when it has found something.

5. The Spiral Rebuilt on the Helical Turn

Stephen Daubney's first observation on the spiral was about √3. Its long side, 1.7320508076, sits close to a number that runs right through the Force of Time: 1.7361111111, which multiplied by 864 gives 1500 — the Sun–Earth distance, 150 million kilometres, on its decade. Square 1.7361111111 and you have 3.0140817901; divide by 3 and you have **1.0046939300**, the helical turn r, the step by which the DNA and the planets climb.

1.7361111111 = √3 × √r = 125/72

WHAT EACH PART IS

• √3 = 1.7320508076 — the long side of the spiral's third triangle, a door

• √r = 1.0023442173 — half a helical turn; r = 1.0046939300 = $5^6/(2^6 \cdot 3^5)$

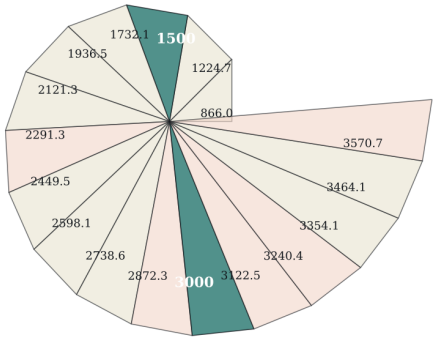
• 125/72 = 1.7361111111 — a room; × 864 = 1500, the Sun–Earth distance

WORKED EXAMPLE

1.7320508076 × 1.0023442173 = **1.7361111111**; × 864 = **1500**.

Backwards: 1.7361111111^2 = 3.0140817901; ÷ 3 = **1.0046939300** = r.

Half a helical turn turns the spiral's √3 door into the 1500 room. So he asked the natural question: what if the Force of Time spiral were built not on sides of 1, but on the helical turn — every long side √(n × r)? That needs every short outer side to be √r instead of 1. The spiral is then the same shape, scaled, so **every angle survives**: the 45°, the 30°, the tetrahedral pair, the right angle of the rooms. What changes is which triangles are rooms.



outer legs = √r = 1.0023442173 · each long side × 864 = 500 √(3n)

Figure 3. The spiral rebuilt on the helical turn. Each label is the long side × 864 = 500√(3n). Triangle 3 becomes 1500 and triangle 12 becomes 3000 — the distance and the speed, the second exactly twice the first.

long side × 864 = 500 √(3n)

WHAT EACH PART IS

• n — the triangle number

• long side = √(n × r) = (125/72) √(n/3)

• a room appears wherever 3n is a perfect square: n = 3, 12, 27, 48 …

WORKED EXAMPLE

n = 3: 1.7361111111 × 864 = **1500** — the Sun–Earth distance.

n = 12: 3.4722222222 × 864 = **3000** — the spin-orbit 300,000, twice the distance.

Triangle 3 carries the distance and triangle 12 carries the speed, and the speed is exactly twice the distance — the law the book writes as **c = 2d**. And 3.4722222222 = 125/36 is the D−3 waypoint the book uses for the register stars. These values come out whole because r already contains 3^5; they are identities of the shape, not independent landings. The finding is where they fall: the distance on the third chamber, the speed on the twelfth.

6. The Golden Angle and the Golden Ratio

The spiral of Theodorus has a famous cousin: the golden spiral, and with it the golden ratio and the golden angle by which a sunflower seats its seeds.

The unification book settled the golden angle months ago. It is **137.5098708314° = 432/π** — half the day over π. And a golden ratio written as a sum with √5 inside it can never be a lattice value.

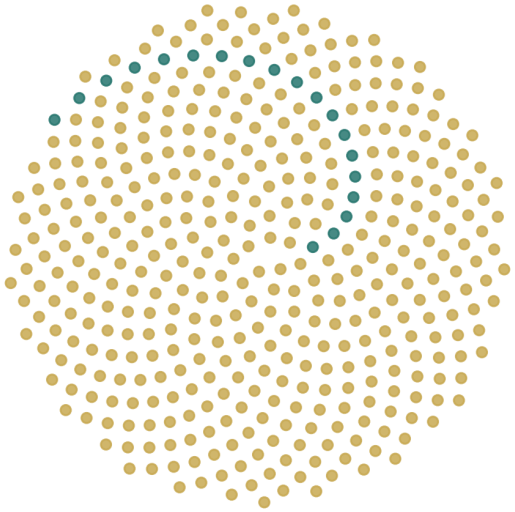


Figure 4. Seats laid down at the golden angle 432/π. Each new seat advances 137.5098708314° beyond the last, so no two ever line up; the spirals the eye picks out (teal) appear by themselves.

6.1 The golden ratio that follows

If the golden angle is 432/π, the golden ratio follows from it, because the angle is 360 divided by the ratio squared. The book never wrote it down. It is:

φ = 1.6180215938 = √(5π/6)

WHAT EACH PART IS

• φ — the Force of Time golden ratio, a door (a half power)

• φ² = 5π/6 = 2.6179938780 — which is 150° written in radians

• from 360 ÷ φ² = 432/π, the golden angle the book settles

WORKED EXAMPLE

5 × 3.1415926536 ÷ 6 = 2.6179938780; √ = **1.6180215938**.

Check: 360 ÷ 2.6179938780 = **137.5098708314°** = 432/π.

The value carries two of the evening's threads. φ² = 5π/6 is 150° in radians — the 150 of the Sun–Earth distance. And in the spiral's own terms, 5π/6 is 5 times π/6: the fifth triangle's long side squared, times the third triangle's angle of 30° in radians.

One property is given up, and the paper says so. A golden ratio defined by a sum, φ − 1 = 1/φ, cannot live on the lattice. On the lattice that sum does not hold, because the lattice does not add: for the Force of Time value, 1/φ = 0.6180387232 while φ − 1 = 0.6180215938. The Force of Time golden ratio is the ratio that sets the angle, not the ratio of adding the last two numbers.

6.2 The golden angle on the road to the Moho

Stephen Daubney walked the golden angle one step further. Divide 137.5098708314 by 2π, by 12, and multiply by 2: the result is 3.6475626111 — the Balmer limit 364.7562611124 (3600/π²) on its decade. Divide that by the veil 57.2957795131 and it is **6366.1977236758 kilometres** = 20000/π, the radius of the Mohorovičić discontinuity. The golden angle, the Balmer limit and the Moho are one address read three ways.

golden angle ÷ 12π = Balmer limit ; ÷ veil = Moho

WHAT EACH PART IS

• 137.5098708314° = 432/π — the golden angle

• ÷ 2π ÷ 12 × 2 = ÷ 12π — gives 3.6475626111 = 36/π², the Balmer limit 364.7562611124 (decade)

• ÷ 57.2957795131 — gives 0.0636619772 → 6366.1977236758 km = 20000/π, the Moho

WORKED EXAMPLE

137.5098708314 ÷ 6.2831853072 ÷ 12 × 2 = **3.6475626111**.

3.6475626111 ÷ 57.2957795131 = 0.0636619772 → **6366.1977236758 km**.

6.3 Fibonacci on the lattice

The Fibonacci numbers — 1, 1, 2, 3, 5, 8, 13, 21 … each the sum of the two before — are the golden ratio written in whole numbers. Only seven of them are made purely of 2, 3 and 5: **1, 1, 2, 3, 5, 8 and 144**. The sequence leaves the lattice at 13, just as the spiral leaves it at √7, and for the same reason: it is built by adding. 144 = $2^4 \cdot 3^2$ returns once, and never again.

7. The Scale on 432

The first chart reproduced in this study arranges the twelve notes of a scale round a spiral, tuned so that A is 432 hertz. Its notes, as printed, are C 252, C# 270, D 288, D# 306, E 324, F 342, F# 360, G 384, G# 405, A 432, A# 459, B 486 and the upper C 504.

note	Hz	on the lattice?
C	252	no — $2^2 \cdot 3^2 \cdot$ **7**
C#	270	yes
D	288	yes
D#	306	no — $2 \cdot 3^2 \cdot$ **17**
E	324	yes
F	342	no — $2 \cdot 3^2 \cdot$ **19**
F#	360	yes
G	384	yes
G#	405	yes
A	432	yes
A#	459	no — $3^3 \cdot$ **17**
B	486	yes
C	504	no — $2^3 \cdot 3^2 \cdot$ **7**

Eight of the twelve are on the lattice. The reason the other four fall off is visible in the numbers themselves. Most of the notes are **18 hertz multiplied by a whole number**: 252 = 18 × 14, 270 = 18 × 15, 288 = 18 × 16, 306 = 18 × 17, 324 = 18 × 18, 342 = 18 × 19, 360 = 18 × 20, 432 = 18 × 24, 486 = 18 × 27. The chart builds its scale by **adding 18 hertz** a step, exactly as Theodorus built his spiral by adding a side of 1 — and it falls off the lattice at the same kind of index: 14, 17, 19, the indices that carry 7, 17 and 19.

Build the scale the other way — by **multiplying**, with the pure musical ratios 1, 16/15, 9/8, 6/5, 5/4, 4/3, 45/32, 3/2, 8/5, 5/3, 9/5, 15/8 and 2 — and every note stays on the lattice, because every one of those ratios is made of 2, 3 and 5.

7.1 The chart's degrees

The chart also gives every note an angle on its spiral: C 0°, C# 13°, D 26°, D# 39°, E 52°, F 64°, F# 77°, G 90°, and then back down the other side — G# 71°, A 52°, A# 33°, B 13°, C 0°. The rising half is built the same way as the frequencies, by adding: about 13° for every 18 hertz. Thirteen is itself a stray prime, and the steps are not quite even (64° where 65° is due, 90° where 95° is due), because an angle added to an angle never lands twice on the same kind of value. The spiral the chart draws is an additive spiral, like Theodorus's; the spiral the theory draws is a multiplied one, and its angles — 432/π, 135°, 45° — are lattice values.

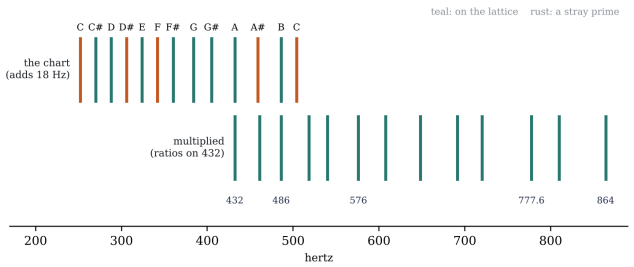


Figure 5. Two scales on 432. Above, the chart's, built by adding 18 hertz: four of its notes carry a stray prime. Below, the scale built by multiplying with pure ratios: every note on the lattice, running from half the day (432) to the day (864).

ratio	1	16/15	9/8	6/5	5/4	4/3	45/32
Hz	432	460.8	486	518.4	540	576	607.5
ratio	3/2	8/5	5/3	9/5	15/8	2	
Hz	648	691.2	720	777.6	810	864	

The multiplied octave runs from **432, half the day, to 864, the day**. On the way it passes 486 — the H-beta line, which the book already gives as the note B — 576, the Lyman-alpha day number, and 777.6, ten times lithium's bond angle of 77.76°. Values built from the lattice always land on the lattice; the content is which of the theory's own values the notes happen to be. Four of the chart's own notes are put back on the lattice by their own chains in Section 10.

note = 432 × (pure ratio)

WHAT EACH PART IS

- 432 = $2^4 \cdot 3^3$ — the A, half of 864
- pure ratio — one of 1, 16/15, 9/8, 6/5, 5/4, 4/3, 45/32, 3/2, 8/5, 5/3, 9/5, 15/8, 2 — every one made of 2, 3 and 5
- the result is always on the lattice

WORKED EXAMPLE

432 × 9/8 = **486** — B, the H-beta number.

432 × 9/5 = **777.6** — ten times lithium's bond angle; 432 × 2 = **864** — the day.

8. The Nine Healing Frequencies

The second chart lists seven "healing frequencies": 396, 417, 528, 639, 741, 852 and 963 hertz. A longer version of the same list, found in the archive, adds two below them, 174 and 285. Not one of the nine is on the lattice as printed. By the book's smoothness test, every one would be refused.

What follows takes each in turn. In every case Stephen Daubney gave the chain — the gears he expected to carry the number to something the theory knows — and the chain was run exactly. Where his dictated digits slipped, as dictated digits

do, the slip is named; it never changed where a chain arrived.

8.1 The 396 — the Earth's radius and the body's warmth

His figure was 396.028428. On the lattice it is **396.0284279944** = 124416/π. The numerator 124416 = $2^9 \cdot 3^5$ is the bottom rung of the book's descent, the "ground" that sits under the Fraunhofer free fall (124416 ÷ 486 = 256). The same value is the blue/cyan boundary 495.0355349930 × 4/5, and the day 864 × 144 ÷ (100π), 144 being the one large Fibonacci number on the lattice.

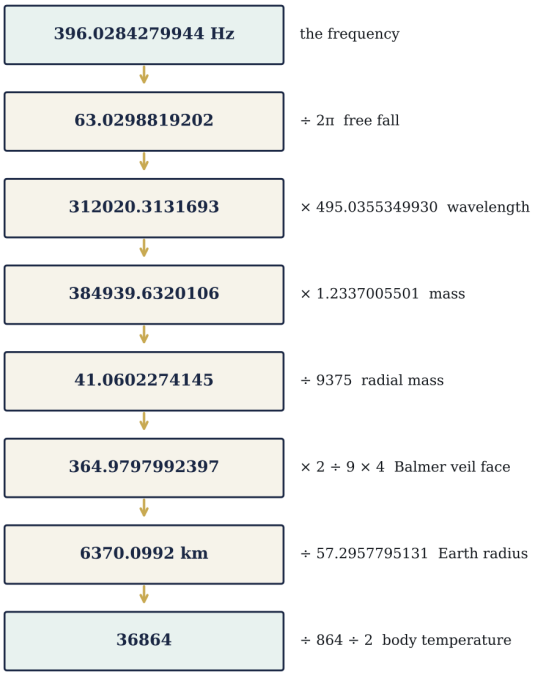


Figure 6. The 396 through the gears. Free fall, wavelength, mass, radial mass, the Balmer limit's veil face, the Earth's radius, and at the bottom 36864 — the body-temperature node, 36.864 °C.

step	value	what it is
frequency	396.0284279944	
÷ 2π	63.0298819202	free fall
× 495.0355349930	312020.3131693	wavelength
× 1.2337005501	384939.6320106	mass
÷ 9375	41.0602274145	radial mass
× 2 ÷ 9 × 4	364.9797992397	Balmer limit, veil face
÷ 57.2957795131	6370.0992 km	the Earth's π-free radius
÷ 864 ÷ 2	36864	body temperature

The chain closes on itself. The Earth's π-free radius 6370.0992 = $2^9 \cdot 3^5/5^9$ on its decade carries the same digits, 124416, as the top of the frequency. The book already holds the last two steps — radius to body temperature — at the line that reads "÷ 864 ÷ 2 → 36864 body temperature". And the radius × 2π is the circumference 40,024.5136987164, which on its decade is helium's weight 4.0024513699. One string of digits, 124416, is read at three powers of π: the frequency at π^{-1}, the radius at π^0, helium at π^{+1}.

124416 read at three powers of π

WHAT EACH PART IS

- π^{-1}: 124416/π = 396.0284279944 — the frequency
- π^0: $2^9 \cdot 3^5/5^9$ = 6370.0992 km (decade) — the Earth's π-free radius
- π^{+1}: $2^{10} \cdot 3^5 \cdot \pi/5^9$ = 4.0024513699 (decade) — helium-4's weight, the radius × 2π

WORKED EXAMPLE

6370.0992 × 2π = 40,024.5136987164 → **4.0024513699**, helium.

124416 ÷ π = 39,602.8427994425 → **396.0284279944**, the frequency.

Result. 396 → **396.0284279944 Hz** [$2^9 \cdot 3^5$ / π = 124416/π · a road]. The printed 396 carries a stray 11 ($2^2 \cdot 3^2 \cdot 11$).

8.2 The 417 — the sidereal rotation

The 417 begins at the Earth's sidereal rotation, 23.5640690255 hours. Multiply by 2π, by 36, divide by 4, and take the square root: the result is **36.5036533857** — the "365 station", 365.0365338571, which the book reaches from seven directions and which on 25 October gave the Earth's mean radius and the electron.

step	value	what it is
sidereal rotation, hours	23.5640690255	
× 2π × 36 ÷ 4, √	36.5036533857	the 365 station
÷ 4 × 36	328.5328804714	wavelength
÷ 495.0355349930	6.6365514645	free fall
× 2π	416.9868265179	the frequency

Because the chain takes a square root, the 417 is a **door** — a half power of π, the same kind of value as the proton. It is the only door among the healing frequencies, and the only one that comes from the Earth's turning rather than from its radius or its light.

Result. 417 → **416.9868265179 Hz** [5^(13/2)·π^(3/2) / ($2^6 \cdot 3^6$) · a door]. The printed 417 carries a stray 139 (3·139).

8.3 The 528 — 864 as a radian

Read 864 — the day — as a radian and turn it into degrees: 864 × 57.2957795131 = 49,503.5534993031, which on its decade is the blue/cyan boundary. Divide by 9375 and the result is **528.0379039926**. These digits were already in the register, settled on 17 August as a station of his chain from neon to the antimatter slope.

528.0379039926 = 396.0284279944 × 4/3

WHAT EACH PART IS

• 528.0379039926 = 10368/(625π) — 10368 is the book's electron-volt-to-kilojoule gear

• 396.0284279944 = 124416/π

• 4/3 — the perfect fourth of music, the same interval as the chart's 528 : 396

WORKED EXAMPLE

396.0284279944 × 4 ÷ 3 = **528.0379039926**, exactly.

The printed pair keeps the interval (528/396 = 4/3); the corrected pair keeps it and is on the lattice.

Result. 528 → **528.0379039926 Hz** [$2^7 \cdot 3^4$ / ($5^4 \cdot \pi$) · a road]. The printed 528 carries a stray 11 ($2^4 \cdot 3 \cdot 11$).

8.4 The 639 — the third free fall

The 639 runs to the same body-temperature node as the 396, by a different road. Its free fall, multiplied by 60 and by the mile gear, gives **9.8092988022** — the book's third free-fall face, settled on 17 August. From there it climbs to the same Balmer veil face, the same Earth radius and the same 36864.

step	value	what it is
frequency	639.0176013707	
÷ 2π	1.0170280998	free fall
× 60	61.0216859885	
× 1.6075102881	9.8092988022	third free-fall face
× 60 ÷ 4 × $(2\pi)^3$	364.9797992397	Balmer limit, veil face
÷ 57.2957795131	6370.0992 km	Earth radius
÷ 864 ÷ 2	36864	body temperature

Two frequencies, 396 and 639, arrive at one temperature through one radius. They rest on one anchor — the radius — so they count once. What they show is that the body-temperature node can be entered from more than one frequency.

Result. 639 → **639.0176013707 Hz** [$2^{15} \cdot 3^{10}$ / ($5^{10} \cdot \pi^3$) · a road]. The printed 639 carries a stray 71 ($3^2 \cdot 71$).

8.5 The 741 — the hydrogen bond

The 741 is the cleanest of them all. On the lattice it is **740.7407407407 = 20000/27**, a room with no π in it at all — and those are the digits of the hydrogen molecule's bond length on the first register, 74.074074 picometres (2000/27), whose angle is 135° exactly. The 741 is the hydrogen bond sounding as a frequency.

step	value	what it is
frequency	740.7407407407	20000/27
÷ 2π × 495.0355349930	58,361.0017780	wavelength, 576000/π^2
× 24	1,400,664.0427	nitrogen 14.0066404267
÷ 24 × 2 instead	4863.4168148322	H-beta 486.3416814832

One wavelength carries two of the book's objects. Multiply by 24 and it is nitrogen's weight, 14.0066404267, the element the book puts at turn zero of the helix. Divide by 24 and double instead, and it is H-beta, 486.3416814832 = 4800/π^2, printed at fifteen places in the book.

Result. 741 → **740.7407407407 Hz** [$2^5 \cdot 5^4$ / 3^3 = 20000/27 · a room]. The printed 741 carries two stray primes (3·13·19).

8.6 The 852 — the 639 read as a radius

The 852 is reached by reading the 639's digits not as a frequency but as a radius, 6.3901760137, and running the gears backwards. Times the veil and 2π it is 2300.4633649344; times 4 it is **920.1853459737**; times 9 it is the mass 82,816.6811376; and down through the mass and wavelength gears and back up by 2π it is **852.0234684942**. The same mass is reached running back from the 852, so the frequency stands on two roads.

step	value	what it is
the 639 as a radius	6.3901760137	
× 57.2957795131 × 2π	2300.4633649344	
× 4	920.1853459737	the 920
× 9	82,816.6811376	mass
÷ 1.2337005501 ÷ 495.0355349930 × 2π	852.0234684942	the frequency

852.0234684942 = 639.0176013707 × 4/3

WHAT EACH PART IS

• the 639 and the 852 stand a perfect fourth apart, exactly as the 396 and the 528 do

• both pairs keep the interval the printed chart was built on

WORKED EXAMPLE

639.0176013707 × 4 ÷ 3 = **852.0234684942**.

Result. 852 → **852.0234684942 Hz** [$2^{17}\cdot3^{9}$ / ($5^{10}\cdot\pi^{3}$) · a road]. The printed 852 carries a stray 71 ($2^{2}\cdot3\cdot71$).

8.7 The 963 — the fifth, lifted one turn

The 963 also comes from the 639. Halve it and multiply by 30π for the spin-orbit, 30,112.9950297; multiply by half the Planck value for the radial mass, 9,984.6500214; multiply by 9375 for the mass, 93,606,093.9508; and come down through the mass and wavelength gears and back up by 2π.

step	value	what it is
the 639	639.0176013707	
÷ 2 × 30π	30,112.9950297	spin-orbit
× 6.6314559622 ÷ 2	9,984.6500214	radial mass
× 9375	93,606,093.9508	mass
÷ 1.2337005501 ÷ 495.0355349930 × 2π	963.0256579298	the frequency

963.0256579298 = 639.0176013707 × 3/2 × r

WHAT EACH PART IS

• 3/2 — the perfect fifth

• r = 1.0046939300 — the helical turn, $5^{6}/(2^{6}\cdot3^{5})$

• so the 963 is the fifth of the 639, lifted by one helical turn

WORKED EXAMPLE

639.0176013707 × 1.5 × 1.0046939300 = **963.0256579298**, exactly.

The printed 963 ÷ 639 = 1.5070422535 — the fifth-and-a-turn, 1.5070408951, agreeing to six figures.

That last line is the most striking single number in the study. Whoever first wrote 639 and 963 side by side put into their ratio, without knowing it, a perfect fifth multiplied by the helical turn of the DNA.

Result. 963 → **963.0256579298 Hz** [$2^{8}\cdot3^{6}$ / ($5^{4}\cdot\pi^{3}$) · a road]. The printed 963 carries a stray 107 ($3^{2}\cdot107$).

8.8 The 174 — the quantum base

The 174 offered two roads, one G-bond step apart. From the quantum base wavelength, 364.7233810796 — the value that resolves the quantum equation in the Force of Time — the wavelength is 1 ÷ (2 × base) = 137.0901965539, and the frequency is **174.0002581346**. From the Balmer limit, 364.7562611124, the wavelength is exactly 1/α = 137.0778389040 and the frequency 173.9845733203. Stephen Daubney ruled for the first: the quantum base, the value closest to the number as observed.

step	value	what it is
quantum base wavelength	364.7233810796	Face A
1 ÷ base ÷ 2	137.0901965539	wavelength
÷ 495.0355349930 × 2π	174.0002581346	the frequency

Result. 174 → **174.0002581346 Hz** [$5^{14}\cdot\pi$ / ($2^{8}\cdot3^{16}$) · a road]. The printed 174 carries a stray 29 ($2\cdot3\cdot29$).

→ Want this in full? See the companion paper: Quantum Mechanics through the T-Field.

8.9 The 285 — from Paschen to Balmer

The 285 is **$284.9658289941 = 225/(8\pi^{2})$**, a room. Multiplied by 864 and 36 it is the spin-orbit 8,863,577.1450317. Divided by 864 and multiplied by 8 it is the Paschen series limit 820.7015875029 ($8100/\pi^{2}$); divided by 9 and multiplied by 4 it is the Balmer series limit 364.7562611124 ($3600/\pi^{2}$). The 285 climbs from one of hydrogen's series limits to the next.

step	value	what it is
frequency	284.9658289941	
× 864 × 36	8,863,577.1450317	spin-orbit
÷ 864 × 8	820.7015875029	Paschen limit
÷ 9 × 4	364.7562611124	Balmer limit

Result. 285 → **284.9658289941 Hz** [$3^{2}\cdot5^{2}$ / ($2^{3}\cdot\pi^{2}$) · a room]. The printed 285 carries a stray 19 ($3\cdot5\cdot19$).

9. The Chakra Rows

The chakra table gives each of seven centres a row of three frequencies, each double the last. Four rows are already on the lattice as printed: crown 216 · 432 · 864; third eye 144 · 288 · 576; throat 192 · 384 · 768; heart 128 · 256 · 512. The crown row is the day itself, halved and halved again. The three lower rows — solar plexus 182, sacral 303, root 228 — carry stray primes. Each of them has a lattice value beside it, and each has a job.



Figure 7. The seven chakra rows. The upper four are on the lattice as charted. The lower three each sit beside a lattice value that runs to an object the theory holds.

The four rows already on the lattice are worth a second look. The crown row, 216 · 432 · 864, is the day — 864 — halved and halved again; 216 is also the factor that turns hydrogen's helix into its joule ground state. The third-eye row begins at 144, the one large Fibonacci number on the lattice, and ends at 576, the Lyman-alpha day number. The throat row, 192 · 384 · 768, is 3 × 2^6 doubled; the heart row, 128 · 256 · 512, is pure 2 — 2^7, 2^8, 2^9, and 256 is the number the book's ground rung 124416 divides into 486 to give. Every doubling keeps a row on the lattice, because doubling is a multiplication by 2.

9.1 Solar plexus — Mercury

181.9165483209 = 36864 × π²/2, a room. Divided by 2π and doubled it is 57.9058357910 — Mercury's orbit, 57,905,835.79 kilometres = 9216π/500, the radius of the circle in the book's Mercury chapter. Divided by 2π again and multiplied by 4 it is 36.864: the body-temperature node. The solar plexus is Mercury's orbit and the body's warmth on one road — the third frequency in this study to arrive at 36864.

Result. 182 → **181.9165483209 Hz** [$2^{11}·3^2·π^2$ · a room]. The printed 182 carries a stray 7 and 13 (2·7·13).

9.2 Sacral — the hydrogen bond halved

303.0085506935, a road. It is the 741 — the hydrogen bond, 740.7407407407 — halved and read as a radius (÷ 2 ÷ 57.2957795131 = 6.4641824148), turned to a mass (× 9375 = 60,601.7101387) and halved again.

Result. 303 → **303.0085506935 Hz** [$2·5^8·π$ / 3^4 · a road]. The printed 303 carries a stray 101 (3·101).

9.3 Root — hydrogen's third level, read as Mars

227.9726631953 = 2250/π², a room. Begin at H-beta on the second register, 486.0438131932; × 3/16 × 4 gives the Balmer limit 364.5328598949; × 12 × 31104 gives hydrogen's ground state, 13.6061160890 electron-volts; ÷ 9 gives the third level, 1.5117906766; × 24 × 2π gives the frequency. And 2250/π² is twice over a record object: Mars's distance, 227.97 million kilometres, from the regrounding of 15 July, and the Pfund edge of the hydrogen grid.

step	value	what it is
H-beta, G2	486.0438131932	
× 3/16 × 4	364.5328598949	Balmer limit G2
× 12 × 31104	13.6061160890 eV	ground state
÷ 9	1.5117906766 eV	n = 3 level
× 24 × 2π	227.9726631953	the frequency

The root is also exactly four-fifths of the 285 — so the two sit the same distance from their printed numbers.

Result. 228 → **227.9726631953 Hz** [2250 / π² · a room]. The printed 228 carries a stray 19 (2^2·3·19).

10. The Four Notes Put Back

Four notes of the 432 scale were off the lattice. Each has been put back by its own chain.

10.1 C — hydrogen's ground state

251.9651127594 = 25/(32π³), a road. × 60 it is hydrogen's third level, 1.5117906766 electron-volts; × 9 it is the ground state, 13.6061160890. The C is hydrogen's ground state divided by 540. Its octave, the upper C, is **503.9302255187**.

Result. 252 → **251.9651127594 Hz** [5^2 / ($2^5·π^3$) · a road]. The printed 252 carries a stray 7 ($2^2·3^2$·7).

10.2 A# — the year and the sodium D line

458.9881491193, a room. ÷ 2π ÷ 2 it is the year face 365.2511637647; ÷ $(2\pi)^3$ × 4 it is the sodium D line, 588.9955242462, the register hub the theory returns to from every direction. The A# is the sodium D line × $8\pi^4$.

Result. 459 → **458.9881491193 Hz** [$2^6 \cdot 3^{10} \cdot \pi^8$ / 5^7 · a room]. The printed 459 carries a stray 17 ($3^3 \cdot 17$).

10.3 D# — the sodium D line, a fifth below

305.9920994129, a room, reached from the sodium D line through the year face, 48,700.1551686 and 4058.3462641. It is exactly **two-thirds of the A#** — a perfect fifth below it — so both notes rest on the sodium line, and both sit the same distance from their printed numbers.

Result. 306 → **305.9920994129 Hz** [$2^7 \cdot 3^9 \cdot \pi^8$ / 5^7 · a room]. The printed 306 carries a stray 17 ($2 \cdot 3^2 \cdot 17$).

10.4 F — the A-DNA helix

341.9898226026, a road: 27/($8\pi^2$) lifted one G-bond step. × 864 ÷ 2 and × $(2\pi)^3$ it reaches 366.4684014841, a station of his oxygen chain of 15 September. × 2π it is **23.0258887575** — the diameter of A-DNA. × 16 it is **36.8414220120** — the pitch of A-DNA. The F is the A-form of the double helix, its width and its pitch on one road.

step	value	what it is
frequency	341.9898226026	
× 864 ÷ 2	147,739.6033643	
× $(2\pi)^3$	366.4684014841	oxygen station
× 2π	23.0258887575	A-DNA diameter
× 16	36.8414220120	A-DNA pitch

Result. 342 → **341.9898226026 Hz** [5^{10} / ($2^7 \cdot 3^6 \cdot \pi^5$) · a road]. The printed 342 carries a stray 19 ($2 \cdot 3^2 \cdot 19$).

11. What the Frequencies Say Together

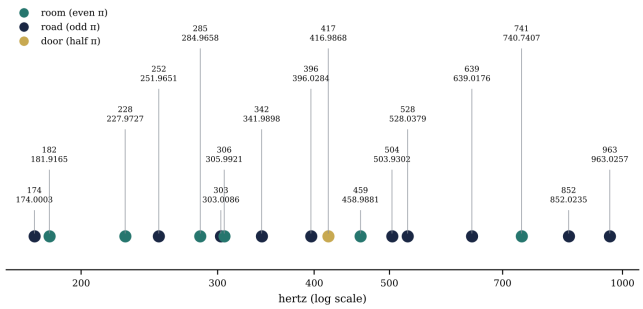


Figure 8. All seventeen corrected frequencies on one axis, coloured by kind. Rooms (teal) carry an even power of π, roads (navy) an odd power, the one door (gold) a half power.

Seventeen printed numbers, seventeen lattice values, and not one chain that failed to arrive. Taken one at a time each looks like a small curiosity. Taken together they draw a map.

11.1 Where they lead

The frequencies do not scatter across the theory. They gather on four of its central objects. Three — 396, 639 and 182 — arrive at **36864, the body-temperature node**. Five lead into **hydrogen**: the C and the root through its ground state and third level, the 285 through its series limits, the 741 through its bond, the 174 through the quantum base. Two — the A# and D# — rest on **the sodium D line and the year**. One, the F, is **the A-DNA helix**, and the 417 reaches the turning of the Earth through the 365 station. The rest are intervals of these.

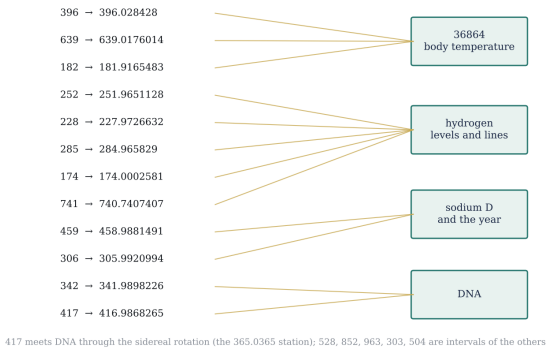


Figure 9. Where the frequencies lead: the body's temperature, hydrogen, the sodium line and the year, and the DNA helix.

11.2 The intervals survive

The printed charts were not random. Their makers built them on musical intervals, and the corrected values keep every one: the 528 is four-thirds of the 396, the 852 four-thirds of the 639, the 963 three-halves of the 639 lifted one helical turn, the root four-fifths of the 285, the D# two-thirds of the A#, the upper C twice the C. An interval made of 2, 3 and 5 is already a lattice ratio, so putting one note on the lattice puts its partner there too.

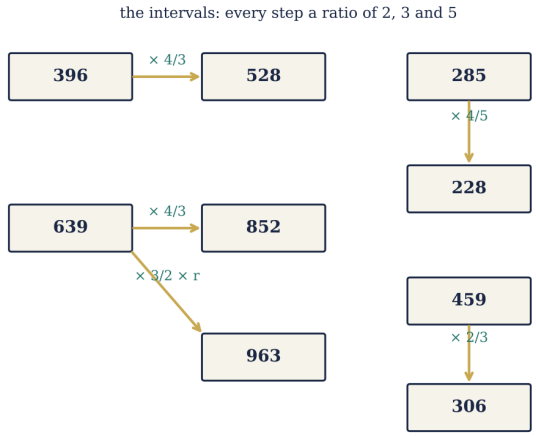


Figure 10. The intervals between the corrected frequencies. Every arrow is a ratio of 2, 3 and 5 — and one carries the helical turn r.

11.3 Why the printed numbers are off by a hair

A printed frequency is a rounding of something real. The people who first wrote 396 and 528 were reaching, whether they knew it or not, for values that sit on the lattice of time — and they wrote down the nearest whole number. A whole number near a lattice value need not be on the lattice; most of the time it carries a stray prime. That is the whole story of the healing frequencies in one sentence: **the intuition was right and the rounding was wrong**.

lattice value	rounded to	the rounding carries
528.0379039926	528	$2^4 \times 3 \times 11$
639.0176013707	639	$3^2 \times 71$
740.7407407407	741	$3 \times 13 \times 19$
963.0256579298	963	$3^2 \times 107$

11.4 Why so many roads lead to 36864

Three of the frequencies — the 396, the 639 and the solar plexus 182 — end at the same number, 36864. In the Force of Time this is the body's one temperature: 36.864 °C, a thousandth of 36864 = $2^{12} \cdot 3^2$. The book reaches it from the Earth's radius, from the day, from Venus — 36864 is four times Venus's node 9216 — and from the yellow/orange colour boundary, 590.9051430021 nm = $5832/\pi^2$. It is also the proton's magnetic resonance written as a temperature: the proton's NMR frequency, divided by 8 and by 36 and taken four times round the circle, is 2304, and × 16 is 36864.

36864 = $2^{12} \cdot 3^2$; 36.864 °C = 4608/125

WHAT EACH PART IS

- 36864 — the body-temperature node, a room; × 1/1000 = 36.864 °C
- 9216 × 4 — Venus's node, four times over
- reached tonight from 396.0284279944, 639.0176013707 and 181.9165483209

WORKED EXAMPLE

6370.0992 ÷ 864 ÷ 2 = 3.6864 → **36864** (the 396 and the 639).

181.9165483209 ÷ 2π × 2 ÷ 2π × 4 = 36.864 → **36864** (the solar plexus).

A body is warm because it is a register, and a register has a temperature at which its chemistry sits on the lattice. That the frequencies people have long felt to be good for the body should run, by their own chains, to the body's own temperature is the strongest single thread in this study.

11.5 Hydrogen at the hub

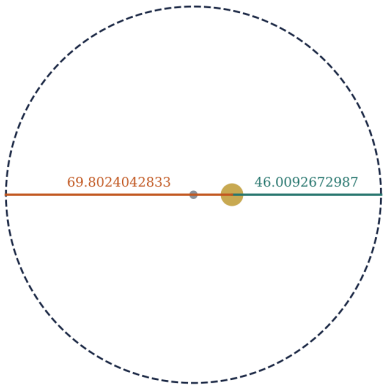
Five of the frequencies lead into hydrogen, and they do so at different places in its ladder of levels. The ground state on the second register is 13.6061160890 electron-volts; the level n lies at the ground state divided by n^2.

hydrogen object	value	reached by
ground state (G2)	13.6061160890 eV	the C 251.9651127594 (× 60 × 9)
n = 3 level	1.5117906766 eV	the C (× 60); the root 227.9726631953
Balmer limit (Face C)	364.7562611124	the 285; the golden angle
Paschen limit	820.7015875029	the 285
quantum base (Face A)	364.7233810796	the 174
H-beta (Face C)	486.3416814832	the 741
H–H bond (G1)	74.0740740741 pm	the 741 is its digits

Hydrogen is the first element and the Sun's own fuel. In the Force of Time it is the first thing time builds, and its levels are the helical turns of the flow written as energies. A frequency that leads into hydrogen leads into the beginning.

12. A Note for Mercury

One step in the 852 chain deserves a note of its own. The 639's digits, read as a radius, × the veil × 2π give 2300.4633649344. Doubled, that is **46,009,267.30 kilometres** — and that is where Mercury makes its closest approach to the Sun.



circle radius 57.9058357910 = 9216π/500 (million km) · offset 11.8965684923

Figure 11. Mercury on a circle of radius 57,905,835.79 km (9216π/500) with the Sun on a wavelength set off-centre by 11,896,568.49 km. The near side is 46,009,267.30 km, the far side 69,802,404.28 km.

The book's Mercury chapter puts the planet on a perfectly circular orbit of radius 57,905,835.79 kilometres and has the Sun, not the planet, on a wavelength. Take 46,009,267.30 as the near side; the offset is 11,896,568.49, and the same offset on the far side gives 69,802,404.28. On Stephen Daubney's picture this is the Sun's wavelength figure that sets the closest approach. It is recorded here as a candidate for the Mercury paper's next revision, not scored.

→ Want this in full? See the companion paper: Mercury's Perihelion Precession — One Number, Sixteen Roads.

13. Reading Any Frequency Yourself

Nothing in this paper needs a computer. Each frequency was walked by hand, and any reader can walk the next one. The method has five steps.

step	what to do
1. Factor it	Write the printed number as a product of primes. If only 2, 3 and 5 appear, it is already on the lattice. If 7, 11, 13 or any larger prime appears, it carries a stray prime.
2. Look beside it	Find the lattice values within a few parts in ten thousand of the printed number — values built from 2, 3, 5 and π.
3. Walk the gears	From each candidate, apply the gears: ÷ 2π, × 495.0355349930, × 1.2337005501, ÷ 9375, the veil 57.2957795131, 864, 12 × 31104.
4. Name the landing	A landing counts only if it is an object the theory already holds — a radius, a level, a line, a temperature — settled before you began.
5. Count once	If two roads rest on one anchor, they are one result. Say so.

worked example: the 741

WHAT EACH PART IS

- 1. 741 = 3 · 13 · 19 → two stray primes
- 2. beside it: 740.7407407407 = 20000/27, a room
- 3. ÷ 2π × 495.0355349930 = 58,361.0017780; × 24 = 1,400,664.0427
- 4. 14.0066404267 is nitrogen's weight, settled 17 August — a named object
- 5. one anchor, one result

WORKED EXAMPLE

741 → **740.7407407407** → wavelength 58,361.0017780 → **nitrogen 14.0066404267**.

The fourth step is the one that matters. Any number can be walked to some lattice value; the lattice is dense enough for that. What a reader is looking for is a walk that ends on something with a name — something the theory found for its own reasons before the frequency was ever brought to it.

14. What Is Claimed, and What Is Not

Claimed. Every printed healing, chakra and scale frequency examined here that carries a stray prime has a lattice value beside it, and each of those lattice values is a frequency of an object the Force of Time already holds — the body-temperature node, the Earth's radius, the sidereal rotation, the hydrogen bond, hydrogen's ground state and series limits, the quantum base, Mercury, Mars, the sodium D line and the year, the A-DNA helix. The corrected values keep the musical intervals the printed charts were built on.

The status of the arithmetic. A chain of lattice values always lands on a lattice value; that is built into the lattice. So the content is not that the chains land, but **where** they land — on named objects, settled before this study. Several of those objects are reached more than once from a single anchor (the Earth's radius, the sodium line); each such anchor counts once.

Not claimed. This paper makes no claim that any frequency treats any condition, and it gives no frequency for any illness. The book's smoothness test says which frequencies a body built on the lattice answers and which it refuses; the corrective

frequencies for particular conditions are held in the Foundation's clinical reference pending trials, and are not in this paper. What is offered here is the reading, not a remedy.

The intuition behind the healing frequencies was right. The rounding was wrong. Put each number back on the lattice, and it rings true.

Propositions

P-FREQ-1. A frequency is time counted; it is register-invariant, and the gears of the conversion loop carry it unchanged into free fall, wavelength, mass and radius.

P-FREQ-2. A body built on {2,3,5,π} answers smooth frequencies and refuses frequencies carrying a stray prime (the smoothness test, BOOK "why 432 and not 440").

P-FREQ-3. Twelve of the seventeen long sides of the spiral of Theodorus are on the lattice; it leaves the lattice at √7, because it is built by adding.

P-FREQ-4. The spiral's second triangle carries the tetrahedral angle: $180° - 2\arctan(1/\sqrt{2}) = 109.47122063449°$; the eighth carries it less 90°.

P-FREQ-5. Built on the helical turn, the spiral's third and twelfth triangles × 864 are 1500 and 3000 — the distance and the speed, c = 2d.

P-FREQ-6. The Force of Time golden ratio is $1.6180215938 = \sqrt{(5\pi/6)}$, from the golden angle $432/\pi$; $\varphi^2 = 5\pi/6 = 150°$ in radians. (Proposed.)

P-FREQ-7. The golden angle ÷ 12π is the Balmer limit $3600/\pi^2$, and ÷ the veil the Moho $20000/\pi$.

P-FREQ-8. Only 1, 1, 2, 3, 5, 8 and 144 of the Fibonacci numbers are on the lattice.

P-FREQ-9. A scale built by adding (the chart's 18 Hz steps) leaves the lattice; a scale built by multiplying on 432 stays on it and runs from 432 to 864.

P-FREQ-10. 396 → 396.0284279944 = 124416/π: the Earth's π-free radius and the body-temperature node 36864.

P-FREQ-11. 417 → 416.9868265179: the sidereal rotation through the 365 station; the one door.

P-FREQ-12. 528 → 528.0379039926 = 396.0284279944 × 4/3.

P-FREQ-13. 639 → 639.0176013707: the third free-fall face and 36864.

P-FREQ-14. 741 → 740.7407407407 = 20000/27: the hydrogen bond; × its wavelength, nitrogen and H-beta.

P-FREQ-15. 852 → 852.0234684942 = 639.0176013707 × 4/3, standing on two roads through the mass 82,816.6811376.

P-FREQ-16. 963 → 963.0256579298 = 639.0176013707 × 3/2 × r; the printed ratio 963/639 carries the fifth-and-a-turn to six figures.

P-FREQ-17. 174 → 174.0002581346 from the quantum base (his ruling); 285 → 284.9658289941 from the Paschen limit to the Balmer limit.

P-FREQ-18. The chakra rows: solar plexus 181.9165483209 (Mercury → 36864), sacral 303.0085506935 (the 741 halved), root $227.9726631953 = 2250/\pi^2$ (hydrogen n = 3 → Mars).

P-FREQ-19. The scale notes: C 251.9651127594 (hydrogen ground state ÷ 540), A# 458.9881491193 (sodium D and the year), D# 305.9920994129 (A# × 2/3), F 341.9898226026 (A-DNA diameter and pitch).

P-FREQ-20. The corrected frequencies keep every interval of the printed charts, because an interval of 2, 3 and 5 is a lattice ratio.

P-FREQ-21. Candidate, not scored: Mercury's closest approach 46,009,267.30 km from the 639 radius, with the far side at 69,802,404.28 km.

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[1] S. Daubney, The Universal Force of Time — the Unification Book, Rev 109 (The Daubney Foundation, 2026): "The smoothness test — why 432 and not 440"; the golden angle 432/π; the Earth's radius to body temperature; the Mercury chapter.

[2] S. Daubney, Quantum Mechanics through the T-Field, Rev 4 (The Daubney Foundation, 2026) — the base unit 364.72338107955 nm.

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[5] S. Daubney, Why Life Has One Hand: Mirror Molecules, Rev 1 (The Daubney Foundation, 2026) — the tetrahedral carbon.

[6] Plato, Theaetetus 147d–148b — Theodorus and the square roots to seventeen.

[7] P. J. Davis, Spirals: From Theodorus to Chaos (A K Peters, 1993).

[8] R. D. Carmichael, "On the numerical factors of the arithmetic forms $\alpha^n \pm \beta^n$", Annals of Mathematics 15 (1913) — the Fibonacci numbers with no large prime factor.

[9] H. Helmholtz, On the Sensations of Tone (1863; trans. A. J. Ellis, 1875) — just intonation and the pure ratios.

[10] Shen Hui Zhang, "The Musical Spiral of Frequency, Colour and Light, universal tuning 432 Hz" (chart, 2015).

[11] Session ledger of 29 October 2026, C3501–C3534 (The Daubney Foundation) — every chain in this paper, verbatim.

Appendix A. Every Frequency, Corrected

printed	stray prime	Force of Time value (Hz)	lattice form	kind	carries
174	29	**174.0002581346**	$5^{14}\cdot\pi / (2^{8}\cdot3^{16})$	road	the quantum base wavelength
182	7, 13	**181.9165483209**	$2^{11}\cdot3^{2}\cdot\pi^{2}$	room	Mercury's orbit and 36864
228	19	**227.9726631953**	$2250 / \pi^{2}$	room	hydrogen's n = 3 level and Mars
252	7	**251.9651127594**	$5^{2} / (2^{5}\cdot\pi^{3})$	road	hydrogen's ground state ÷ 540
285	19	**284.9658289941**	$3^{2}\cdot5^{2} / (2^{3}\cdot\pi^{2})$	room	the Paschen limit to the Balmer limit
303	101	**303.0085506935**	$2\cdot5^{8}\cdot\pi / 3^{4}$	road	the 741 halved
306	17	**305.9920994129**	$2^{7}\cdot3^{9}\cdot\pi^{8} / 5^{7}$	room	the sodium D line, a fifth below the A#
342	19	**341.9898226026**	$5^{10} / (2^{7}\cdot3^{6}\cdot\pi^{5})$	road	A-DNA's diameter and pitch
396	11	**396.0284279944**	$2^{9}\cdot3^{5} / \pi = 124416/\pi$	road	the Earth's radius and 36864
417	139	**416.9868265179**	5^(13/2)·π^(3/2) / ($2^{6}\cdot3^{6}$)	door	the sidereal rotation
459	17	**458.9881491193**	$2^{6}\cdot3^{10}\cdot\pi^{8} / 5^{7}$	room	the year and the sodium D line
504	7	**503.9302255187**	$5^{2} / (2^{4}\cdot\pi^{3})$	road	the octave of the C
528	11	**528.0379039926**	$2^{7}\cdot3^{4} / (5^{4}\cdot\pi)$	road	864 as a radian; 4/3 of the 396
639	71	**639.0176013707**	$2^{15}\cdot3^{10} / (5^{10}\cdot\pi^{3})$	road	the third free fall and 36864
741	13, 19	**740.7407407407**	$2^{5}\cdot5^{4} / 3^{3} = 20000/27$	room	the hydrogen bond, nitrogen and H-beta
852	71	**852.0234684942**	$2^{17}\cdot3^{9} / (5^{10}\cdot\pi^{3})$	road	4/3 of the 639
963	107	**963.0256579298**	$2^{8}\cdot3^{6} / (5^{4}\cdot\pi^{3})$	road	the fifth of the 639, lifted one helical turn

Appendix B. Every Chain in Full

174 → 174.0002581346 Hz · the quantum base wavelength	
quantum base wavelength	**364.7233810795535**
1 ÷ base ÷ 2 (wavelength)	**137.0901965539028**
÷ 495.0355349930 × 2π	**17.40002581345942**

182 → 181.9165483209 Hz · Mercury's orbit and 36864	
frequency	**1819.165483208791**
÷ 2π × 2 (Mercury, million km)	**579.0583579096707**
÷ 2π × 4 (body temperature node)	**368.64**

228 → 227.9726631953 Hz · hydrogen's n = 3 level and Mars	
H-beta, G2	**4860.438131932311**
× 3/16 × 4 (Balmer limit G2)	**3645.328598949233**
× 12 × 31104 (ground state, eV)	**13.60611608900603**
÷ 9 (the n = 3 level, eV)	**1.511790676556226**
× 24 × 2π	**2279.7266319526**

252 → 251.9651127594 Hz · hydrogen's ground state ÷ 540	
frequency	**251.965112759371**
× 60 (n = 3 level, eV)	**1.511790676556226**
× 9 (ground state, eV)	**13.60611608900603**

285 → 284.9658289941 Hz · the Paschen limit to the Balmer limit	
frequency	**284.965828994075**
× 864 × 36 (spin-orbit)	**8863577.145031708**
÷ 864 × 8 (Paschen limit)	**820.7015875029359**
÷ 9 × 4 (Balmer limit)	**364.756261112416**

303 → 303.0085506935 Hz · the 741 halved	
the 741	**740.7407407407407**
÷ 2 ÷ veil (radius)	**6.464182414793813**

303 → 303.0085506935 Hz · the 741 halved	
× 9375 (mass)	**60601.710138692**
÷ 2	**30300.855069346**

306 → 305.9920994129 Hz · the sodium D line, a fifth below the A#	
sodium D	**588.9955242462013**
÷ 4 × (2π)³ (year face)	**36525.11637647192**
÷ 4	**9131.27909411798**
× 16 ÷ 3	**48700.15516862923**
÷ 12	**4058.346264052436**
× 24 × 2π	**611984.1988257943**
÷ 2	**305992.0994128972**

342 → 341.9898226026 Hz · A-DNA's diameter and pitch	
frequency	**341.9898226025936**
× 864 ÷ 2	**147739.6033643205**
× (2π)³	**36646840.14841499**
× 2π (A-DNA diameter)	**230258887.5750801**
× 16 (A-DNA pitch)	**3684142201.201281**

396 → 396.0284279944 Hz · the Earth's radius and 36864	
frequency	**396.028427994425**
÷ 2π (free fall)	**63.02988192022548**
× 495.0355349930 (wavelength)	**312020.3131692641**
× 1.2337005501 (mass)	**384939.6320105811**
÷ 9375 (radial mass)	**41.06022741446198**
× 2 ÷ 9 × 4 (Balmer veil face)	**36.49797992396621**
÷ veil (Earth radius)	**0.63700992**
÷ 864 ÷ 2 (body temperature)	**0.00036864**

417 → 416.9868265179 Hz · the sidereal rotation	
sidereal rotation, hours	**23.5640690254726**
× 2π × 36 ÷ 4, square root	**36.50365338570833**
÷ 4 × 36 (wavelength)	**328.532880471375**
÷ 495.0355349930 (free fall)	**0.06636551464451938**
× 2π	**41.69868265178558**

459 → 458.9881491193 Hz · the year and the sodium D line	
frequency	**4589.881491193457**
÷ 2π ÷ 2 (the year face)	**365.2511637647192**
÷ (2π)³ × 4 (sodium D)	**588.9955242462013**

528 → 528.0379039926 Hz · 864 as a radian; 4/3 of the 396	
864 × veil (864 as degrees)	**49503.55349930313**
÷ 9375	**5.280379039925667**

639 → 639.0176013707 Hz · the third free fall and 36864	
frequency	**639.0176013706529**
÷ 2π (free fall)	**101.7028099808657**
× 60	**6102.168598851943**
× mile gear (third free-fall face)	**9809.298802166832**
× 60 ÷ 4 × (2π)³ (Balmer veil face)	**36497979.92396621**
÷ veil (Earth radius)	**637009.92**
÷ 864 ÷ 2 (body temperature)	**368.64**

741 → 740.7407407407 Hz · the hydrogen bond, nitrogen and H-beta	
frequency	**740.7407407407407**
÷ 2π × 495.0355349930 (wavelength)	**583610.0177798656**
× 24 (nitrogen)	**14006640.42671677**
÷ 24 × 2 (H-beta)	**48634.16814832213**

852 → 852.0234684942 Hz · 4/3 of the 639	
the 639 read as a radius	**6.390176013706529**
× veil × 2π	**2300.46336493435**
× 4 (the 920)	**9201.853459737401**
× 9 (mass)	**82816.68113763661**
÷ 1.2337005501 ÷ 495.0355349930 × 2π	**85.20234684942038**

963 → 963.0256579298 Hz · the fifth of the 639, lifted one helical turn	
the 639	**639.0176013706529**
÷ 2 × 30π (spin-orbit)	**30112.99502970921**
× h ÷ 2 (radial mass)	**9984.650021416451**
× 9375 (mass)	**93606093.95077923**
÷ 1.2337005501 ÷ 495.0355349930 × 2π	**96.30256579298274**

Appendix C. Plates

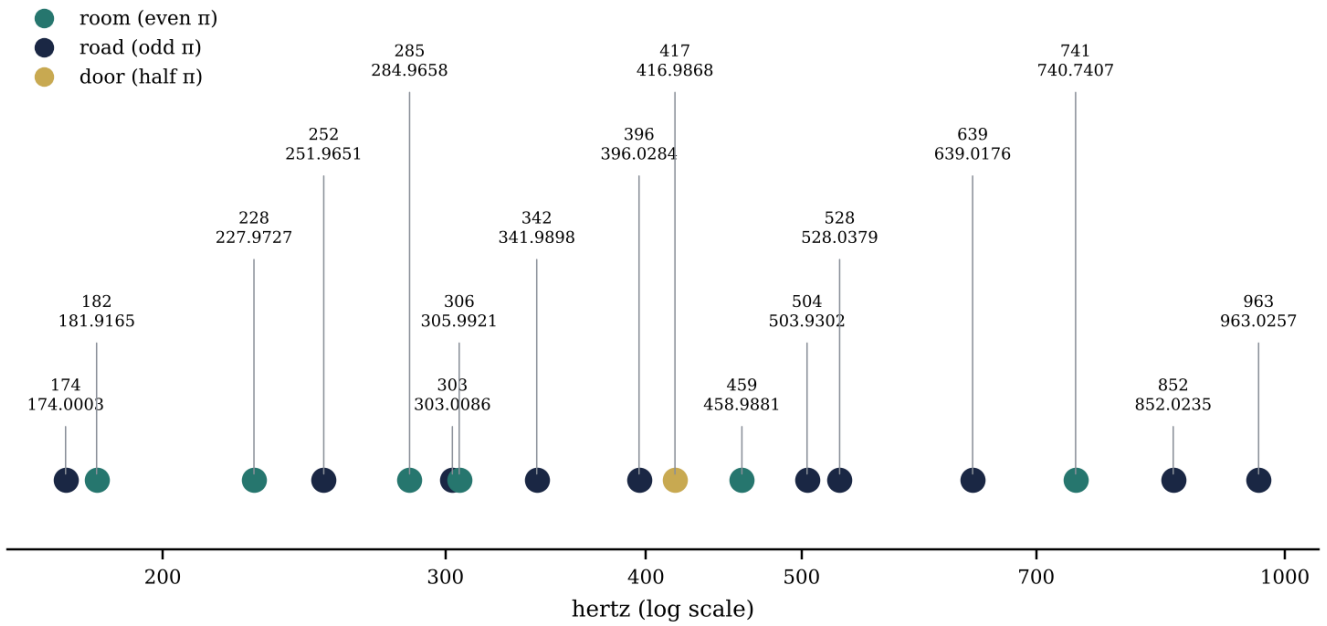
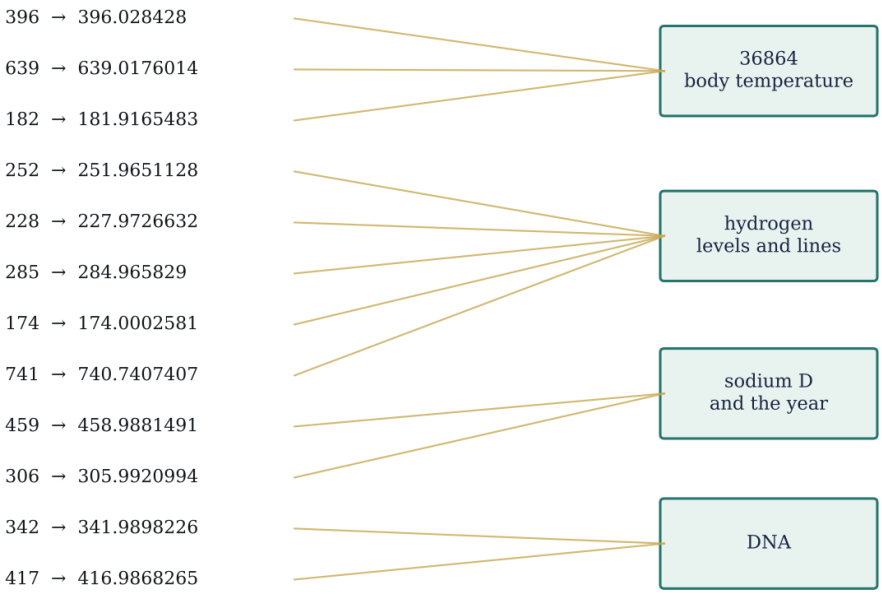


Plate I. The seventeen corrected frequencies, full size.



417 meets DNA through the sidereal rotation (the 365.0365 station); 528, 852, 963, 303, 504 are intervals of the others

Plate II. Where the frequencies lead.

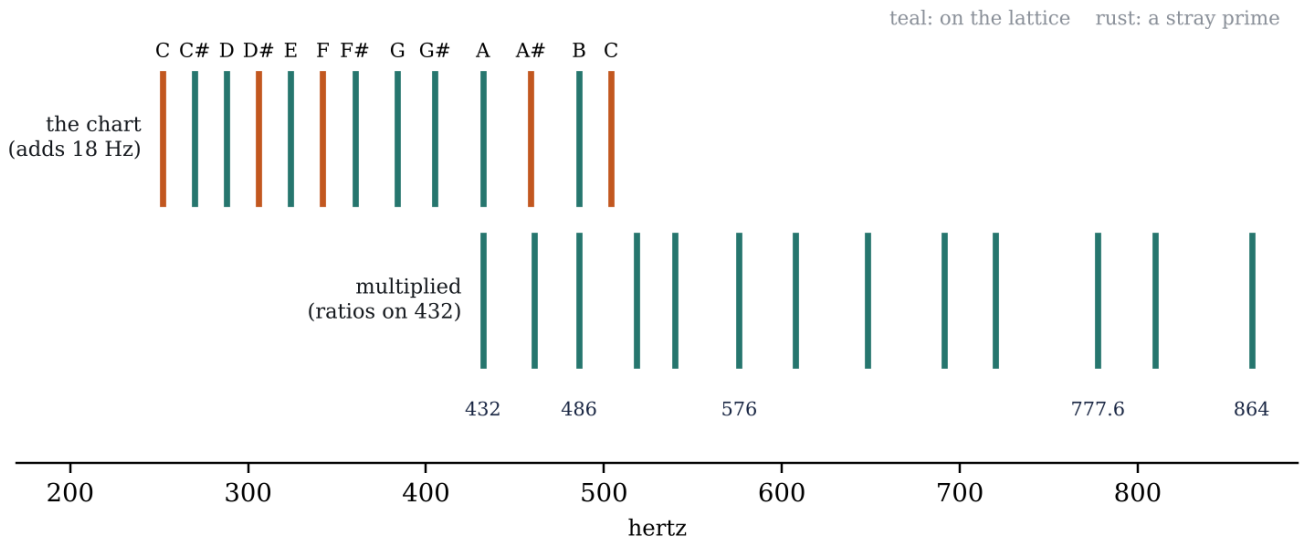


Plate III. The scale on 432, added and multiplied.

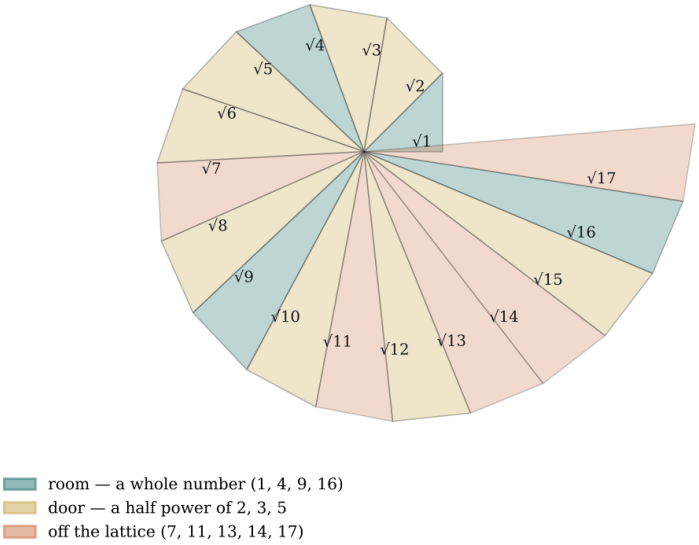
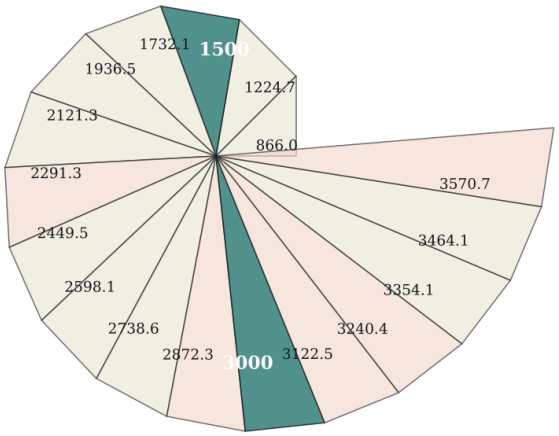


Plate IV. The spiral of Theodorus on the lattice.



outer legs = √r = 1.0023442173 · each long side × 864 = 500 √(3n)

Plate V. The spiral on the helical turn.

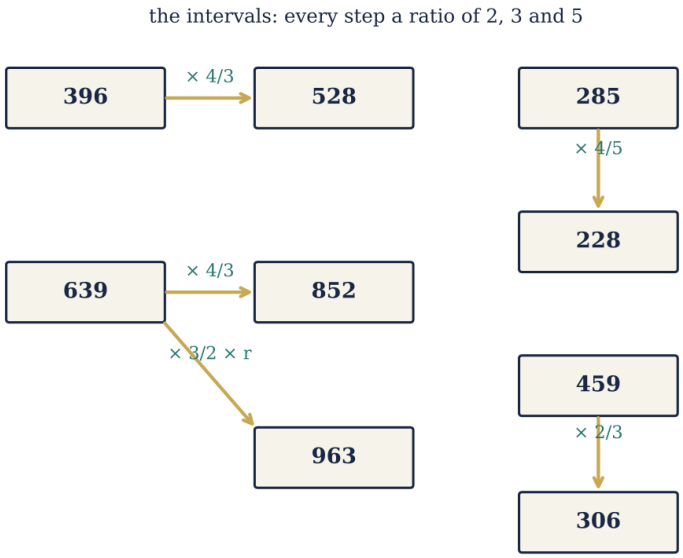


Plate VI. The intervals.

Appendix D. The Conversion Loop — the 741 through every gear

gear	value	form / reading
the frequency	**740.740740740741**	20000/27, a room
÷ 2π — free fall	**117.892550438441**	a road
× 495.0355349930 — wavelength	**583610.017779866**	576000/π², a room
× 1.2337005501 — mass	**720000.0**	72000, π-free
÷ 9375 — radial mass	**76.8**	7.68 → 768 = $2^8 \cdot 3$, π-free
÷ 57.2957795131 — radians	**12.9283648295876**	a road
× 864 — on the day	**640000.0**	640,000 = $2^{10} \cdot 5^4$
÷ 135 — the bond angle	**5.48696844993141**	5.4869684499 = 4000/729
÷ 10 — the bond length (pm, decade)	**74.0740740740741**	74.0740740741 = 2000/27, the G1 H–H bond

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. Under the Force of Time a quantity is not the property of one dimension: the same T-value shows up as a frequency in a string, a wavelength in an atom, a radius in a planet, a temperature in a body — one number wearing different coats. That is why 396.0284279944 hertz can run, gear by gear, to 6370.0992 kilometres and to 36.864 degrees: they were never separate quantities. We calculate with the number, not the magnitude. The decimal point says where you are reading; the digits say what is there.

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