THE UNIVERSAL FORCE OF TIME

Fibonacci Structure in Orbital Speeds

The Fibonacci sequence runs through the inner solar system exactly as far as the lattice of time allows — 1, 1, 2, 3, 5, 8 and 144 — and the gears of the Sun, Mercury, Venus and the Earth multiply to the turn of the DNA helix

Stephen Daubney · The Daubney Foundation · 2026 · Rev 4

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.

THE LADDER, NUMBER FIRST

10.416666...

= 1.3888... × 1.1574074... × 2.16 × 3 — the Sun × Mercury × Venus × the Earth ($25/18 \times 125/108 \times 54/25 \times 3 = 125/12 = 5^3/(2^2 \cdot 3)$) — the turn of the DNA helix · Sun × Mercury = **3125/1944** = the Faraday ÷ 60

Fibonacci on the lattice: **1, 1, 2, 3, 5, 8, 144** · golden angle **432/π = 137.5098708°** → $3600/\pi^2$ → **20000/π**, the Moho

ABSTRACT

Look closely at the head of a sunflower and you will see two families of spirals, one turning left and one turning right, and if you count them the numbers are almost always neighbours in a famous sequence: 1, 1, 2, 3, 5, 8, 13, 21, 34. Each is the sum of the two before it. The sequence is named after Fibonacci, and its ratios close in on the golden ratio. People have looked for it everywhere — in shells, galaxies, and the orbits of the planets. This paper sets out the position of the Universal Force of Time: **the Fibonacci sequence does run through the inner solar system, but only as far as the lattice of time allows it — and the lattice allows exactly 1, 1, 2, 3, 5, 8 and 144.**

The work is built number first, with each lattice form placed behind its number. From that position the paper:

- shows that **of all the Fibonacci numbers, only seven — 1, 1, 2, 3, 5, 8 and 144 — are built from 2, 3 and 5 alone**; every other carries a foreign prime and leaves the lattice;
- shows that the **Fibonacci ratios the lattice keeps — 2/1, 3/2, 5/3, 8/5 — are the locks of the solar system**, among them Mercury's 3:2 of rotations to orbits, and that 144 returns as the minutes and the seconds of the Earth's day;
- sets out the **speed ladder of the inner solar system** — the Sun **25/18**, Mercury **125/108**, Venus **54/25**, the Earth **3** — every one a {2,3,5} fraction, whose partial products are **25/18, 3125/1944, 125/36 and 125/12**, the last being **the pitch of the DNA helix**;
- shows that the **Sun-and-Mercury product, 3125/1944 = 1.6075102880658436**, is the gear the framework uses between miles and kilometres — and, from the companion paper on the Faraday, **exactly the chemist's bridge divided by sixty**;
- carries the same ladder into **mass**: the veil 180/π times each partial product gives the Sun, Mercury, Venus and Earth node masses, and the Earth's, **1875/π**, divided by 9375, is **the Moho, 20000/π**;
- gives the **golden ratio's face on the lattice, 1.6180215938 (√(5π/6))**, and the **golden angle on the lattice, 432/π = 137.5098708°**, which packs seeds as a sunflower does and which, divided by 2π, by 12 and doubled, is **$3600/\pi^2$, the Balmer limit**, and through the veil **the Moho again** — two roads to one seam;

- and corrects the earlier versions, which fitted measured speeds to Fibonacci ratios that carry the prime 13.

It closes with what stands, what is open, the conditions that would break it, and an appendix from which every number can be rebuilt. Every figure has been recomputed from its lattice form at forty digits, π carried as a symbol.

THE FORMULAS OF THIS PAPER, NUMBER FIRST

Every result in this paper is carried by one of the formulas below, each written with the number first and the lattice form in brackets behind. Each is worked in full in the part named beside it.

> **FORMULA B1** **THE FIBONACCI NUMBERS THAT SURVIVE** **Part One**
> 1, 1, 2, 3, 5, 8, 144 (144 = $2^4 \cdot 3^2$) every other Fibonacci number carries a foreign prime
>
> **FORMULA B2** **THE RATIOS THE LATTICE KEEPS** **Part Two**
> 2/1 3/2 5/3 8/5 then 13/8 leaves the lattice (13 is prime)
>
> **FORMULA B3** **THE SPEED LADDER** **Part Three**
> Sun 25/18 ($5^2/(2 \cdot 3^2)$) Mercury 125/108 ($5^3/(2^2 \cdot 3^3)$)
> Venus 54/25 ($2 \cdot 3^3/5^2$) Earth 3
>
> **FORMULA B4** **THE PARTIAL PRODUCTS** **Part Three**
> 25/18 -> 3125/1944 -> 125/36 -> 125/12 = 10.416666... the turn of the DNA helix
>
> **FORMULA B5** **THE SUN-MERCURY GEAR** **Part Four**
> 25/18 x 125/108 = 3125/1944 = 1.6075102880658436 ($5^5/(2^3 \cdot 3^5)$) = the Faraday / 60
>
> **FORMULA B6** **THE NODE MASSES, AND THE MOHO** **Part Five**
> 180/π -> 31250/(108π) -> 625/π -> 1875/π 1875/π / 9375 x 10^5 = 6366.1977236758 (20000/π)
>
> **FORMULA B7** **THE GOLDEN ANGLE ON THE LATTICE** **Part Six**
> 432/π = 137.50987083139757° / 2π / 12 x 2 = 3.6475626111 ($3600/\pi^2$) / veil -> 20000/π
>
> **FORMULA B8** **THE GOLDEN RATIO'S LATTICE FACE** **Part Six**
> √(5π/6) = 1.6180215937964 its square 5π/6 is 150° written in radians

THE TERMS THIS PAPER USES

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. A number that needs any other prime — 7, 13, 17 — is not on the lattice.

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 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 6366.197... and 6.366197... are one address.

The veil. The veil is 180/π = 57.29577951308232, the number that turns radians into degrees. In this framework it is also the Sun's node mass: the turning of a circle into a count is the first thing the source does.

The day, 864. 864 is the day: 86,400 seconds in a day, written at its decade. It is the ground state of the DNA helix.

The helical turn. A turn is one revolution of the helix. The helical turn is the step from one revolution to the next, **1.004693930041152263 ($5^6/(2^6 \cdot 3^5)$)**.

A spacetime speed. Each body in the inner solar system carries a dimensional speed — the speed at which its own register turns — written as a pure fraction. These are not the speeds a telescope reads in kilometres per second; they are the gears between one body's register and the next.

The radial mass. A radial mass is a mass spread over a radius rather than held at a point; dividing a node mass by 9375 turns it into a radius. That is how the Earth's node mass becomes the Moho in Part Five.

Free fall. Free fall is not the acceleration of a body pulled by a force; it is the correction that tops a rotation up to a full day, one value with the speed of light read in a different unit of time: **9.817477042468104 ($5^2 \cdot \pi / 2^3$)**.

The G-bond step. The G-bond step is the smallest structural step between adjacent faces of one value, **1.000090150603356201 ($5^{10}/(2^4 \cdot 3^9 \cdot \pi^3)$)** — the amount by which a G1 face is multiplied to give its G2 face.

The 612 step and the 703 step. The 612 step is helium divided by four, **1.000612842467910952 ($2^9 \cdot 3^5 \cdot \pi / 5^8$)**; the 703 step is the span of hydrogen's ionisation faces end to end, **1.000703048319385397 ($800/(81 \cdot \pi^2)$)**. They are not used in this paper; they are named so that the reader meets the family of small steps of which the G-bond step is the smallest.

Why a value can be carried from one kind of quantity to another. An energy is a count of T, and the unit is a choice of clock: a joule is energy counted in seconds, a kilojoule per mole the same energy counted in minutes. A speed gear, a mass and a radius are likewise one count read at different registers. That is why the speed ladder can become a ladder of masses in Part Five, and a mass can become a radius.

How the numbers were checked. No value in this paper was found by a search, so no statistical test is needed to judge it. A p-value answers the question "how often would I see a landing this close if the thing were not real?"; a control is a set of decoys built to resemble the real values, run through the same search to find out how often chance alone lands; a standard deviation is the typical distance of a measurement from its mean, the spread of the ruler. The earlier versions of this paper compared measured speeds with Fibonacci ratios and needed exactly that kind of judgement; this version does not, because every result here is an exact identity worked from its address.

PART ONE — THE FIBONACCI NUMBERS THAT SURVIVE

A sequence and an alphabet

The Fibonacci sequence is built by one rule: each number is the sum of the two before it. Start from 1 and 1 and it runs 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233 and on without end. The lattice of time is built by a different rule: every value is a product of 2, 3, 5 and π, and nothing else. Set the two side by side and ask a simple question — **which Fibonacci numbers can the lattice spell?**

FORMULA B1	THE FIBONACCI NUMBERS THAT SURVIVE		
1	1	yes	
2	2	yes	
3	3	yes	
5	5	yes	
8	2^3	yes	
13	13	no	a foreign prime
21	3 x 7	no	carries 7
34	2 x 17	no	carries 17
55	5 x 11	no	carries 11
89	89	no	a foreign prime
144	$2^4 \cdot 3^2$	YES	the last
233 and every Fibonacci number beyond		no	

Only seven Fibonacci numbers are built from 2, 3 and 5 alone: 1, 1, 2, 3, 5, 8 and 144. This is not a pattern that fades; it is a closed list. Number theory proves that 144 is the largest Fibonacci number with no prime factor above 5, and a direct count through the first sixty terms finds nothing else. Every Fibonacci number from 13 onward, except 144, carries a prime the lattice does not contain.

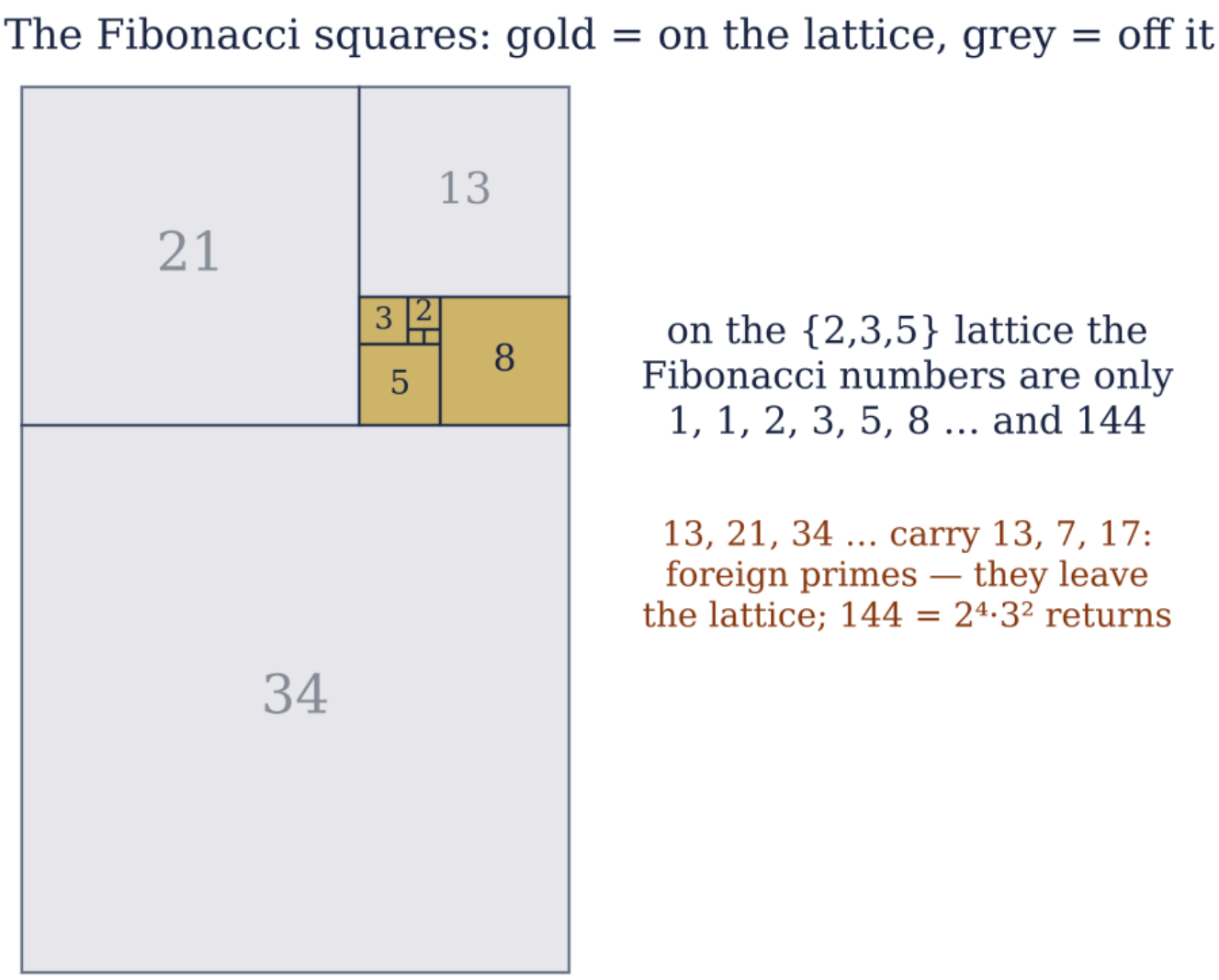


Figure 1 — **The Fibonacci squares.** Each square's side is a Fibonacci number. The gold squares — 1, 1, 2, 3, 5, 8 — are on the lattice; the grey ones carry the foreign primes 13, 7 and 17 and leave it. Of the whole infinite sequence only one more, 144 = $2^4 \cdot 3^2$, returns.

What 144 is

The one Fibonacci number that comes back is not an obscure one. **144 is the day.** There are 1440 minutes in an Earth day and 86,400 seconds, which is 144 × 600. The day, 864, is 144 × 6 at its decade. The last Fibonacci number the lattice allows is the count the Earth keeps.

It is worth pausing on what that means. The Fibonacci sequence is a rule of growth — each step the sum of the two before — and it has been found in living things because they grow that way. The lattice is a rule of address — each value a product of 2, 3, 5 and π. The two rules meet in only seven places. Six of them are the small numbers at the very start, the first steps of any growth. The seventh is the day. **The one place where the rule of growth and the rule of address meet again, far out along the sequence, is the unit of time the Earth lives by.** On a framework in which time is life, that is where one would expect them to meet.

PART TWO — THE RATIOS THE LATTICE KEEPS

Climbing towards the golden ratio

Divide each Fibonacci number by the one before it and the ratios swing above and below a single value and close in on it: 2, 1.5, 1.667, 1.6, 1.625, 1.615, 1.619... — the golden ratio, 1.618..., the proportion that has been found in art,

architecture and the curve of shells. On the lattice, the climb has a clear limit.

```
FORMULA B2      THE RATIOS THE LATTICE KEEPS
    2/1     =  2              on the lattice
    3/2     =  1.5            on the lattice     Mercury's lock: three rotations to two orbits
    5/3     =  1.666...       on the lattice
    8/5     =  1.6            on the lattice
    13/8    =  1.625          LEAVES the lattice   13 is prime
    21/13, 34/21, ...         every later ratio carries a foreign prime
```

The lattice keeps the first four Fibonacci ratios and then stops. The ratios it keeps are not curiosities. 3/2 is the lock that holds Mercury: three turns on its axis for every two journeys round the Sun — a lock the Universal Force of Time derives rather than observes, because on a {2,3} ratio the only one-for-one trade is three for two. 2/1 is the octave; 5/3 and 8/5 are the major sixth and minor sixth of music. **The solar system uses the Fibonacci ratios that the lattice can spell, and only those.**

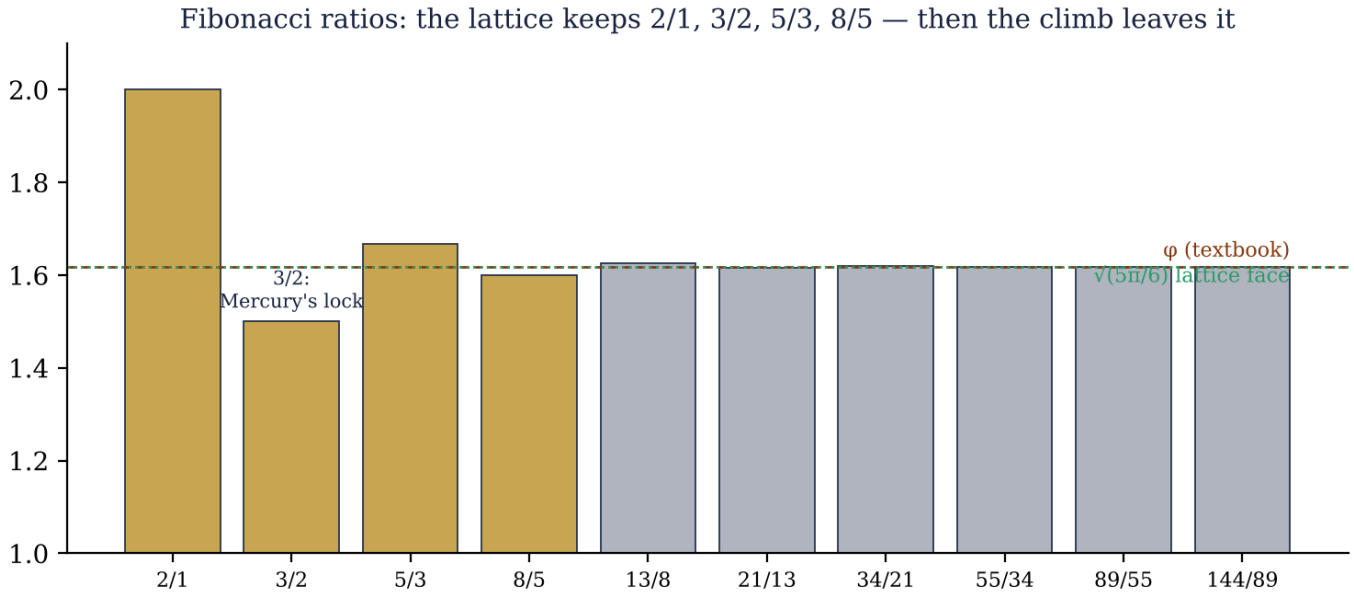


Figure 2 — Fibonacci ratios. The gold bars — 2/1, 3/2, 5/3, 8/5 — are lattice ratios; 3/2 is Mercury's spin-orbit lock. From 13/8 onward the ratios carry a foreign prime. The red line is the textbook golden ratio; the green line is its lattice face, √(5π/6), Part Six.

The 3:2 lock is derived, not observed

The 3:2 is the most important of the ratios the lattice keeps, and the framework does not take it from observation. It derives it. Mercury's rotation on its G1 face is 58.6296587383541573 days, and its orbit 87.9444881075312360 days; the orbit divided by the rotation is 3/2 to every digit.

```
THE 3:2 LOCK
    Mercury's rotation, G1     58.6296587383541573 days      carries   2¹³·3⁶   ( with 5s and π )
    Mercury's orbit, G1        87.9444881075312360 days      carries   2¹²·3⁷
    orbit / rotation           1.5  =  3/2                   exponent sum 13 + 6 = 12 + 7 = 19
```

The two periods share their five-and-π part and differ only in their twos and threes. Their exponent sum is the same, 19, in both. On a ratio built from 2 and 3 alone, the only way to trade one factor for one other while the total stays fixed is to give up a two and take a three — and that trade is exactly 3/2. **The lock is forced by the lattice: it is the only one-for-one trade a {2,3} ratio can make.** That is why Mercury turns three times for every two orbits, and why the first Fibonacci ratio after the octave is the lock that holds the innermost planet.

Why the gears multiply

The four speeds are gears, and gears multiply. Each body's register is the one before it turned by its own gear: Mercury's register is the Sun's turned by 125/108; Venus's is Mercury's turned by 54/25; the Earth's is Venus's turned by 3. That is why the ladder in Part Three is a chain of products, and why each product is a clean fraction —

a product of {2,3,5} fractions can never leave the lattice. It is also why the order matters: the ladder runs outward from the source, the same direction as the flow of time itself.

Why the earlier versions went wrong

The first versions of this paper took the measured orbital speeds of the planets and compared their ratios with Fibonacci ratios: Mercury to Venus with 13/8, Venus to the Earth with 8/5. The matches were loose — a sixth off in one case, a quarter in another — and 13/8 carries the prime 13. That is not a structure; it is a resemblance. **The structure is in the gears, not in the measured speeds**, and the gears are the subject of Part Three.

PART THREE — THE SPEED LADDER OF THE INNER SOLAR SYSTEM

Four gears

Each body in the inner solar system carries its own dimensional speed — the gear at which its register turns. They are pure fractions of 2, 3 and 5:

> **FORMULA B3 THE SPEED LADDER**
>
> | | | | | |
> |---|---|---|---|---|
> | the Sun | 25/18 | = | 1.3888... | ($5^2/(2\cdot3^2)$) |
> | Mercury | 125/108 | = | 1.1574074... | ($5^3/(2^2\cdot3^3)$) |
> | Venus | 54/25 | = | 2.16 | ($2\cdot3^3/5^2$) |
> | the Earth | 3 | = | 3 | (3) |

The numbers are built only from the primes the Fibonacci sequence keeps — 2, 3 and 5. There is no 7, no 13. The inner solar system is written in exactly the alphabet that the surviving Fibonacci numbers use.

The ladder multiplies

Multiply the gears in order and every partial product is a clean {2,3,5} fraction:

> **FORMULA B4 THE PARTIAL PRODUCTS**
>
> | | | | | |
> |---|---|---|---|---|
> | the Sun | 25/18 | = | 1.3888888888888889 | |
> | x Mercury | 3125/1944 | = | 1.6075102880658436 | ($5^5/(2^3\cdot3^5)$) |
> | x Venus | 125/36 | = | 3.4722222222222222 | ($5^3/(2^2\cdot3^2)$) |
> | x the Earth | 125/12 | = | 10.4166666666666667 | ($5^3/(2^2\cdot3)$) |

The last product, 125/12, is the turn of the DNA helix — the number of base pairs in one turn of the double helix, observed at about 10.4. Four gears of the inner solar system, multiplied together, give the pitch of the molecule of life. Nothing was fitted: each gear is a fixed fraction and the product is exact.

On this framework that result is not a surprise. Time flows from the Sun in the form of the DNA double helix, and the planets are the nodes at which that flow deposits matter. The gears between the source and the Earth are the steps of that helix as it travels out. Multiplying them together counts how far one turn of the helix carries — and the count is the same 125/12 that measures one turn of the helix in a living cell. **The inner solar system and the molecule of life are one helix read at two scales.** The same 125/12 also appears in the Earth's air: the share of oxygen in the atmosphere is twice it, 125/6, as a percentage.

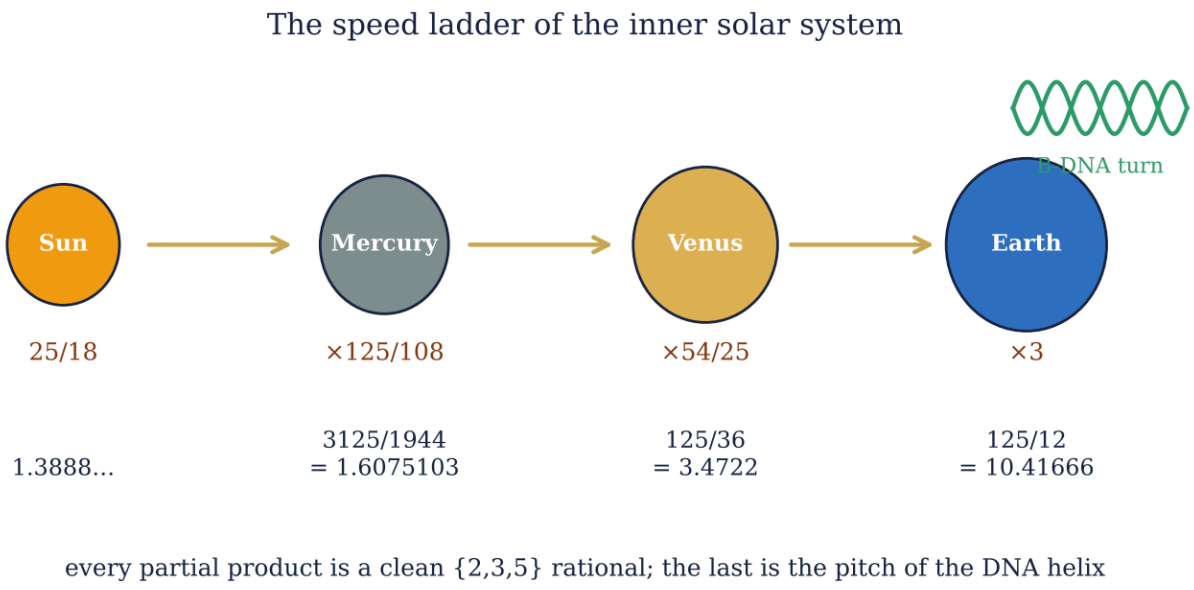


Figure 3 — **The speed ladder.** The Sun 25/18, Mercury 125/108, Venus 54/25 and the Earth 3. Each step multiplies; every partial product is a {2,3,5} fraction; the last is 125/12, the turn of the DNA helix.

The doubled orbits

Double each distance in the inner solar system and the same gears appear as diameters: the Sun's deepest shell at 694,444.444 km becomes 1,388,888.9 km (25/18 at its decade); Mercury at 57.87 million km becomes 115.74 million (125/108); and the Earth's 150 million becomes 300 million — the same digits as the ground speed of light, 3×10^8. The 694,444.444 is the ground-state helix, 625/9, which the Sun's radius reaches through the Paschen line in the companion work on the Sun's movement.

PART FOUR — THE SUN-MERCURY GEAR

A product that is a conversion

Take the first two rungs alone:

```
FORMULA B5     THE SUN-MERCURY GEAR
    25/18  x  125/108   =   3125/1944   =   1.6075102880658436       ( 5⁵/(2³·3⁵) )

    the Faraday  96.450617283950617284  /  60   =   3125/1944        exactly
```

This product is a gear the framework uses everywhere. It is the factor that carries a spin-orbit speed between miles and kilometres; it carries a subatomic mass in MeV onto a celestial time; and, as the companion paper on the Faraday shows, it is exactly the chemist's bridge between the electron-volt and the kilojoule per mole, divided by sixty. A kilojoule per mole is energy counted in minutes; take the minutes away and what is left is the gear between the Sun and its innermost planet.

It sits close to the conventional mile-to-kilometre ratio and is not it. The conventional ratio carries the primes 11 and 127 and no lattice operator can contain those. The framework's gear is the lattice value.

It sits where the golden ratio would sit

There is one more thing to notice about 3125/1944. In the Fibonacci climb, the ratios close in on the golden ratio, about 1.618. The Sun-Mercury gear is 1.6075 — the same neighbourhood, between the lattice ratio 8/5 = 1.6 and the golden value. **The first two gears of the inner solar system multiply to a number in the place where the Fibonacci climb was heading, and they get there on the lattice, where the Fibonacci climb could not.**

PART FIVE — THE NODE MASSES, AND THE MOHO

The same ladder carries mass. In this framework there is one mass in the system, the Sun's, and each planet carries it at its own register. Multiply the veil — the Sun's node mass — by each partial product:

```
FORMULA B6     THE NODE MASSES
    the Sun       180/π                        57.295779513082321
    Mercury       180/π x 3125/1944            92.103555030032023      ( 31250/(108π) )
    Venus         x 54/25                      198.94367886486917      ( 625/π )
    the Earth     x 3                          596.83103659460751      ( 1875/π )

    the Earth's node mass  / 9375  x 10⁵   =   6366.1977236758134 km       ( 20000/π, the Moho )
```

The Earth's node mass, read as a radius — divided by 9375, the conversion that turns a mass into a radius — is **the Moho, 20000/π**: the seam at the top of the Earth's mantle. The speed ladder of the inner solar system ends at a boundary in the rock beneath our feet.

What a node mass is

These are not the masses a textbook lists for the planets, and they are not meant to be. In the textbook picture each planet has its own mass, weighed by the way it pulls on its moons and neighbours, and the masses are independent facts. In this framework there is no pull and no independent planetary mass. **There is one mass in the system — the source's — and each planet carries it at its own register.** The planet's node mass is the Sun's, the veil, turned by every gear between the Sun and that planet. Mercury's is the Sun's turned once; the Earth's is the Sun's turned three times.

That is why the node masses are all simple: 180/π, 625/π, 1875/π. Each is a {2,3,5} number over one π, a road, because each is the source's mass carried outward. And it is why the Earth's node mass becomes a radius inside the Earth: the matter the flow deposits at a node is laid out around the node's centre, and the outermost seam of that layout — the Moho — is the Earth's node mass read as a distance.

PART SIX — THE GOLDEN ANGLE AND THE GOLDEN RATIO ON THE LATTICE

The golden angle

A sunflower places each new seed at a fixed angle from the last, and the angle that packs them best is the golden angle — the turn that divides a circle in the golden ratio, about 137.5°. The framework's golden angle is a clean address:

```
FORMULA B7     THE GOLDEN ANGLE ON THE LATTICE
    432/π   =   137.50987083139757°

    / 2π  / 12  x 2   =   3.6475626111241598   ( 3600/π², the Balmer limit, Face C )
    / the veil  ->      6366.1977236758134 km  ( 20000/π, the Moho )
```

The golden angle on the lattice is the Moho, through the limit of hydrogen's Balmer series. And the speed ladder of Part Five reaches the same Moho from the Earth's node mass. **Two roads — one from the packing of a flower, one from the gears of the planets — arrive at one seam in the Earth.** The angle that the textbooks derive from the golden ratio, 360°/φ², cannot close in this way; the lattice angle, 432/π, does, which is why the framework holds the lattice angle as the golden angle.

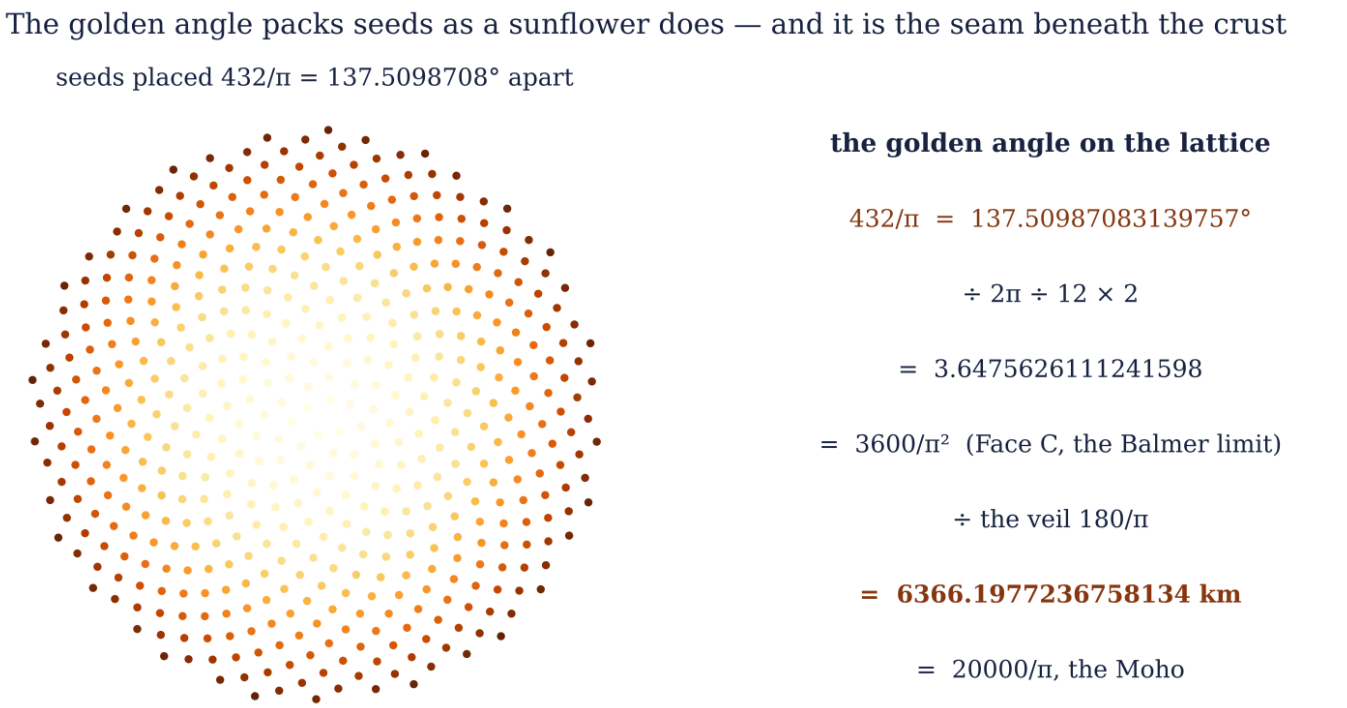


Figure 4 — The golden angle. Seeds placed 432/π = 137.5098708° apart pack in the sunflower's interlocking spirals. The same angle, divided by 2π and 12 and doubled, is 3600/π², the Balmer limit; through the veil it is 20000/π, the Moho.

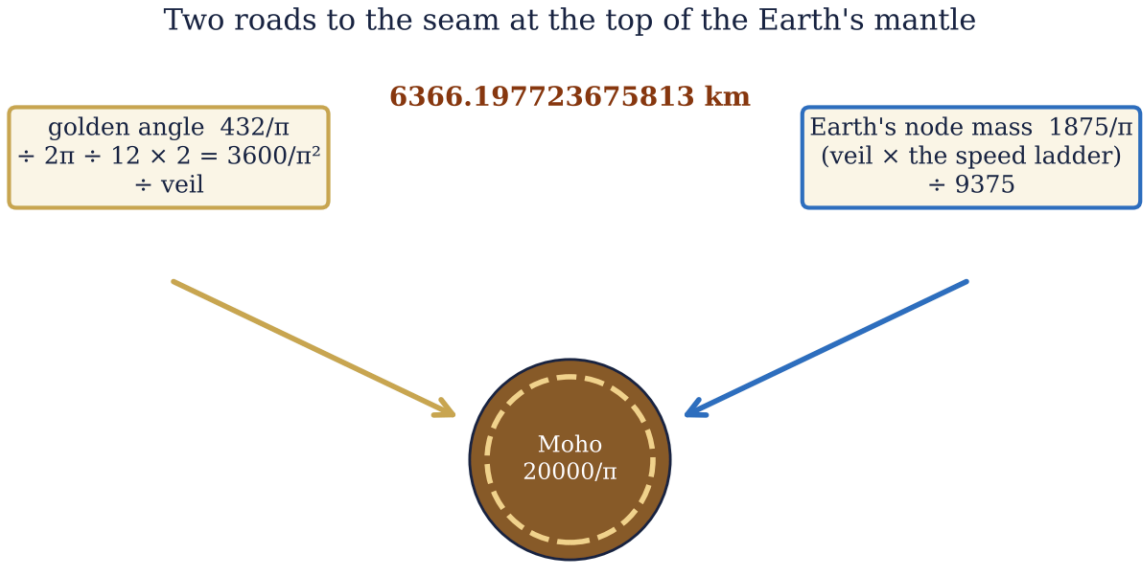


Figure 5 — Two roads to the Moho. The golden angle 432/π through 3600/π² and the veil; and the Earth's node mass 1875/π, the veil carried up the speed ladder, divided by 9375. Both arrive at 6366.1977236758 km.

The golden ratio's lattice face

The golden ratio itself, (1 + √5)/2, is not a lattice address: it carries √5 added to 1, and an addition does not stay on the lattice. Its square, though, sits next to a clean value:

```
FORMULA B8     THE GOLDEN RATIO'S LATTICE FACE
    √(5π/6)   =   1.6180215937964        its square, 5π/6, is 150° written in radians
```

The golden ratio's face on the lattice is 1.6180215937964 (√(5π/6)) — a door, half a power of π — whose square is 150° written in radians, five times the angle of the third triangle of the spiral of Theodorus. Stephen Daubney has ruled this the framework's golden ratio. The textbook value cannot stay on the lattice because it adds 1 to √5; the lattice face is reached by a square root of a clean address, which is what a door is. It sits beside the golden angle, 432/π, which closes on the Moho: the ratio and the angle are both now held on the lattice.

PART SEVEN — WHAT THIS REVISION CORRECTS

- **No fitted Fibonacci ratios.** The earlier versions compared measured orbital speeds with 13/8 and 8/5 and called the loose matches Fibonacci structure. 13 is a foreign prime, and the matches were a sixth and a quarter out. That reading is withdrawn.
- **No fitted scale factor.** The earlier versions turned the speed fractions into kilometres per second with a scale factor taken from Mercury's measured speed. The fractions are gears between registers, not measured speeds, and no scale factor is needed.
- **The Fibonacci structure is stated exactly.** The lattice keeps 1, 1, 2, 3, 5, 8 and 144 and the ratios 2/1, 3/2, 5/3, 8/5; the inner solar system uses only those primes and those locks.
- **New in this revision:** the speed ladder's partial products and the DNA turn; the Sun-Mercury gear as the Faraday divided by sixty; the node masses and the Moho; the golden angle 432/π and its road to the Moho; 144 as the day; and the lattice face of the golden ratio, √(5π/6), ruled.

CONCLUSION — THE SEQUENCE AND THE LATTICE

The Fibonacci sequence has been looked for everywhere because it seems to describe how living things grow: each step built from the two before. The Universal Force of Time agrees that it is there, and says exactly how far. **The sequence runs through the solar system as far as the lattice of time lets it, and no further.** It keeps 1, 1, 2, 3, 5 and 8, and the ratios between them; those ratios are the locks of the planets, with Mercury's 3:2 among them. Then the sequence leaves the lattice, and only once — at 144, the day — does it come back.

The gears of the inner solar system are written in the same three primes. Multiplied together they give the turn of the DNA helix; the first two give the gear that carries the Faraday; the veil carried up them gives the Earth's node mass and the seam beneath its crust. The golden angle on the lattice reaches the same seam by a different road.

It is also why the earlier search for Fibonacci ratios in measured planetary speeds was bound to give loose answers. Measured speeds come from different dimensions of the same bodies — the face a telescope reads is not always the face the gear belongs to — and a ratio of two such readings is a ratio of unlike things. **The structure is in the gears and the addresses, dimension by dimension; it is not in the raw measurements.** Read that way, the Fibonacci numbers the lattice allows, the speeds of the planets, the pitch of DNA and the boundary in the Earth's rock are one alphabet.

WHAT STANDS, WHAT IS OPEN

Forced, and stated at full force. Only 1, 1, 2, 3, 5, 8 and 144 of the Fibonacci numbers are on the lattice. The lattice keeps the ratios 2/1, 3/2, 5/3 and 8/5. The four speed gears are {2,3,5} fractions and their product is 125/12. The Sun-Mercury gear is 3125/1944 and is the Faraday divided by sixty. Each is an exact relation in this paper.

Arrived at, and exact on every line. The node masses from the veil and the ladder; the Earth's node mass to the Moho; the golden angle 432/π to 3600/π² and the Moho; 144 as the day; the golden ratio's face, √(5π/6) = 1.6180215938, ruled.

Open. The gears beyond the Earth — Mars and the outer planets — are not set out here; the asteroid belt marks a change of helical mode, and the ladder beyond it belongs to a further paper.

WHAT WOULD BREAK IT

- A Fibonacci number beyond 144 built from 2, 3 and 5 alone — which number theory says does not exist.
- A spin-orbit lock of an inner body that is a Fibonacci ratio carrying a foreign prime, such as 13/8, held exactly.

- A gear of the inner solar system that cannot be written as a {2,3,5} fraction, or a product of the four that departs from 125/12.

A NOTE ON THE NUMBERS

The values in this paper are written as plain numbers — not pinned to one unit, and not carried to one particular power of ten. Under the Universal Force of Time a quantity is not the property of one dimension: the same T-value shows up as a gear between two bodies, a mass, a radius in the Earth, an angle in a flower. The unit and the power of ten are the costume a number wears where it is read. That is why 3125/1944 can be a speed gear, a conversion between miles and kilometres and the chemist's bridge counted in minutes. Each number is given with its lattice address in brackets, so that the reader can rebuild it from 2, 3, 5 and π alone.

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APPENDIX — EVERY NUMBER, REBUILT

Each value below is rebuilt from its lattice form alone, at forty digits with π carried as a symbol.

THE FIBONACCI NUMBERS ON THE LATTICE

	1, 1, 2, 3, 5, 8, 144 = $2^4 \cdot 3^2$		checked through the first sixty terms

THE SPEED LADDER AND ITS PRODUCTS

Sun	$5^2/(2 \cdot 3^2)$	1.388888888888888889	
Mercury	$5^3/(2^2 \cdot 3^3)$	1.157407407407407407	
Venus	$2 \cdot 3^3/5^2$	2.16	
Earth	3	3	
Sun x Mer	$5^5/(2^3 \cdot 3^5)$	1.607510288065843621	
x Venus	$5^3/(2^2 \cdot 3^2)$	3.472222222222222222	
x Earth	$5^3/(2^2 \cdot 3)$	10.41666666666666667	the DNA turn

THE NODE MASSES

Sun	180/π	57.29577951308232087680	
Mercury	31250/(108π)	92.10355503003202300	
Venus	625/π	198.9436788648691697	
Earth	1875/π	596.8310365946075091	
Earth/9375	20000/π	6366.197723675813431	x 10^5, the Moho

THE GOLDEN ANGLE AND RATIO

	432/π	137.5098708313975701	
/2π /12 x2	$3600/\pi^2$	3.647562611124159772	x 10^2, the Balmer limit
	√(5π/6)	1.618021593796416	the golden ratio's face, ruled

THE FARADAY LINK

	96.450617283950617284 / 60	1.607510288065843621	= 3125/1944

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