

# Prime numbers in geometric consistencies

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## ABSTRACT

A boundary manifold is developed for prime routes: The exact structure is noted in the rest of the paper for an automobile, or rather an auto- structured set which contains the

manifold as prime and maintains the same consistency towards a prime consistency. The four subscript correlates the mapping of four charts in a circle part to an open interval, this covers the whole circle in a calculus mapping. Red and Blue lines are graphed later to show an integer behind the centerfold.

**Keywords:** Prime numbers; Geometric; Riemann analysis; Refuting logic

## INTRODUCTION

### Refuting logic of the Goldbach conjecture in Riemann analysis

The automobile method is distributed by means of refuting the Goldbach Conjecture, while stating the Riemann Hypothesis may be stable in 3 dimensions. Thus we understand primes by geometrically weakening the said saddle point by replacing its square value in an open line, that may have a boundary at D(0,0). This prime differential equation is explained where its dt value is the rate of change of prime equivalency  $-\sum N_r = b_4$ .

We find meaning in this system. We will call it the boundary closure of equivalency.

Goldbach Conjecture:  $a + b \neq 2N \geq 4$  (a,b prime) is found and thus refuted  $\{A\} = \{a_1 = 2, a_2 = 5, a_3 = 38, a_4 = 223, a_5 = 34\}$ ,  $\{B\} = \{b_1 = -1, b_2 = -2, b_3 = 5, b_4 = -8, b_5 = 13\}$

{T} produces these prime outputs

$$\begin{aligned}x^2 + a_1 &= 11 \\x^3 - \sum_{n=2}^{i=2} x^n + b_1 &= 17 \\x^4 - \sum_{n=2}^{i=3} x^n + a_1 &= 47 \\x^5 - \sum_{n=2}^{i=4} x^n + a_2 &= 131 \\x^6 - \sum_{n=2}^{i=5} x^n + b_2 &= 367 \\x^7 - \sum_{n=2}^{i=6} x^n + a_2 &= 1103 \\x^8 - \sum_{n=2}^{i=7} x^n + a_3 &= 3323\end{aligned}$$

$$x^9 - \sum_{n=2}^{i=8} x^n + b_3 = 9851$$

$$x^{10} - \sum_{n=2}^{i=9} x^n + a_3 = 29567$$

$$x^{11} - \sum_{n=2}^{i=10} x^n + a_4 = 88801$$

$$x^{12} - \sum_{n=2}^{i=11} x^n + b_4 = 265717$$

$$x^{13} - \sum_{n=2}^{i=12} x^n + a_4 = 797389$$

$$x^{14} - \sum_{n=2}^{i=13} x^n + a_5 = 2391523$$

$$x^{15} - \sum_{n=2}^{i=14} x^n + b_5 = 7174471$$

$$x^{16} - \sum_{n=2}^{i=15} x^n + a_5 = 21523399$$

$$\begin{aligned}\Sigma P &= 32285717, & \{T\} &= \Sigma P + 200 = 32285917 = p, \\ \Delta G &= \text{Max} = 200.\end{aligned}$$

$A_n$  has two states:

$$\text{between } a_1, a_2, s_{n=(1,2)} = 3(n-1) + 2, a_1 + a_2 = 2 + 5 = 7 = p_1$$

$$\text{between } a_3, a_4, s_{n=(1,2)} = 185(n-1) + 38, a_3 + a_4 = 38 + 223 = 261,$$

only odd and

$$a_4, a_5, s_{n=(1,2)} = -189(n-1) + 223, a_4 + a_5 = 223 + 34 = 257 = p_2 = 2^{2^n} + 1, n = 3$$

7 Steps:

$$X_1 = 2^{2^{(12)+1}} + X_2 = -2^{2^{(9)+1}} + X_3 = -6 \cdot 2^{2^{(6)+1}} + X_4 = 5 \cdot 2^{2^{(3)+1}} + X_5 = 10 \cdot 2^{2^{(0)+1}} + X_6 = -2^{2^{(3)+1}} - r = 32285917,$$

$$\text{when } r = 3, \Sigma P + 200 = N_T \Sigma X_n - r$$

$$N_T = \{1, -1, -6, 5, 10, -1\}$$

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$$\int \sqrt{(x^2-1)/(x^2-2)} dx = E(\sin^{-1}(x/\sqrt{2})|2),$$

$$.5(e^x)\sqrt{2(e^x+1)-(e^x+1)^2} + .5 \int_0^{\sqrt{2}} \sqrt{(x^2-1)/(x^2-2)} dx \approx$$

$$\int \sqrt{(y^2+1)/(y^2+2)} dy : \text{denote this integral as the area under } y^2 = P, \text{ so } 2R|2 = XYZ$$

$$\int (\sec^3 x / \sqrt{y^2+1+1}) dx = \int (\sec^2 x (\sqrt{\tan^2 x + 1} = \sec^2 x / \sqrt{y^2+1+1})) dx$$

where  $\tan x = y$ ,  $dy = \sec^2 x dx$ ,  $C = 0$ .

$$\int (\sec^3 x / \sqrt{y^2+1+1}) \frac{\sin x}{\sin x} dx \quad u = \sec^2 x,$$

$$du = 2\sec^3 x \sin x dx \sqrt{u} = \sec x, \sin x = \sqrt{(u-1)/u}.$$

$$\int (\sec^3 x / \sqrt{\tan^2 x + 1 + 1}) \frac{\sin x}{\sin x} dx = \int \sec^3 x / \sqrt{\sec^2 x + 1} \frac{\sin x}{\sin x} dx$$

$$\text{so } \int 0.5 \frac{\sin x}{\sqrt{u+1}} du = 0.5 \int \frac{\sqrt{u-1}}{\sqrt{u+1}} du.$$

$$.5 \int \sqrt{(u^2-1)/u} du, u = \sin w, du = \cos(w) dw \text{ then } \int \frac{1}{2} \cos^2 w / \sqrt{\sin w dw},$$

when  $w = x \dots$

$$\int F(x) dx = (2/3) \frac{1}{2} (\sin^{1/2} \cos x - 2F(1/4)((\pi-2x)/2))$$

$$= \frac{i}{3} (\sec(\tan^{-1} y) (\sqrt{1-u^2}) - 2F(1/4(\pi-2\sin^{-1} G)|2))$$

$$u = G = \sec^2(\tan^{-1} y),$$

$$\frac{i}{3} (\sqrt{G} \sqrt{1-(G)^2} - 2F(1/4(\pi-2\sin^{-1} G)|2)) + C = \int F(y) dy =$$

$$\int \sqrt{(y^2+1)/(y^2+2)} dy = iE(\operatorname{isinh}^{-1}(y/\sqrt{2})|2) + C, \text{ denoted as hyperbolic function triangulation so}$$

$$iE(\operatorname{isinh}^{-1}(y/\sqrt{2})|2) + C = \frac{i}{3} (G^{1/2} \sqrt{1-G^2} - 2F(1/4(\pi-2\sin^{-1} G)|2)) + C,$$

then

$$3E(\operatorname{isinh}^{-1}(y/\sqrt{2})|2) = \sqrt{G} \sqrt{1-(G)^2} - 2F(1/4(\pi-2\sin^{-1} G)|2), \text{ if } G = e^x$$

if  $x \in T$

$$3E(y) = F(G), \xi_2 = \xi_1 \rightarrow \operatorname{isinh}^{-1}(y/\sqrt{2}), y = \sqrt{2}, \sqrt{2} = x, A, B \text{ rest in } \sqrt{n},$$

as  $n = 2G$  represents the condition values to connect exponentially if  $\sec^2(\tan^{-1}(y))$ . If  $\cos^2 x + \sin^2 x = 1$ ,  $\sec^2 x = 1 + \tan^2 x$  so  $\sec^2(\tan^{-1} y) = 1 + \tan^2(\tan^{-1} y)$

$$\text{So } G = 1 + \tan^2(\theta), \text{ by complex variables we eliminate } x, y \text{ so } z = x +$$

$$iy, \text{ then hold } G \text{ as symmetric to } \frac{1}{p_1} \leq \theta \leq \frac{1}{p_2}$$

$$.5(e^x)\sqrt{2(e^x+1)-(e^x+1)^2} \Big|_{x=0}^{x=2} + .5 \int_0^{\sqrt{2}} \sqrt{(x^2-1)/(x^2-2)} dx \approx G_A|2n, \quad p$$

$$\text{eliminated by } \int \sqrt{(y^2+1)/(y^2+2)} dy \rightarrow 3, 3, 4 \text{ are eliminated by: } X.Y.Z. \leftrightarrow \infty.$$

These values are rational smooth so we eliminate  $p_2$  and  $p_3$

The original data set:

$$X.\sqrt{11} \approx 3 + \frac{101}{317} - \frac{1}{503}, \text{ correct to 6 decimals}$$

$$Y.\sqrt{13} \approx 3 + \frac{157}{233} - \frac{29}{419} + \frac{1}{1051}, \text{ correct to 5 decimals}$$

$$Z.\sqrt{17} \approx 4 + \frac{53}{433} - \frac{3}{4177} + \frac{1}{69127}, \text{ correct to 8 decimals}$$

$$X - Y - Z + \int \int \int |\Delta R| dx dy dz + \int \int \int \Delta n^2 dn - Z_0 dn1 dn2 = [z]$$

through  $z$  containing a hyperbola that is non-Euclidean so:

Let  $p_1$  and  $p_2$  simply define a metric space that is referential to its principal value. Prove that  $f(x, y)$  there is no matrix  $[n]^n$  an integer  $N$

if  $f(x, y) = x^b - axy + ay^a$ , given  $a = b + 1$  so  $D(p_1, p_2) = N/2$  if  $p_1$  and  $p_2 \neq N/1$ . Suppose  $b$  is always prime, but not on degree  $n+1$ .

$$\text{Let } f(x, y) = x^4 - 5xy + 5y^5, \frac{\delta f}{\delta x} = 4x^3 - 5y, \frac{\delta f}{\delta y} = -5x + 25y^4,$$

where  $a = 5$ , wisely chosen

$$\frac{\delta f}{\delta x} = 4x^3 - 5y \Rightarrow \frac{\delta^2 f}{\delta x^2} = 12x^2, \frac{\delta f}{\delta y} = -5x + 25y^4 \Rightarrow \frac{\delta^2 f}{\delta y^2} = 100y^3, \frac{\delta^2 f}{\delta x^2 \delta y^2} = -5$$

$$4x^3 - 5y = 0, -5x + 25y^4 = 0, x = 5y^4, 4(5y^4)^3 - 5y = 0 \quad \text{so}$$

$$500y^{12} - 5y = 0, y(100y^{11} - 1) = 0.$$

$$y_1 = 0, y_2 = \frac{1}{100^{1/11}}, x_1 = 5(0)^4 = 0, x_2 = 5(\frac{1}{100^{1/11}})^4$$

$$= \frac{5}{100^{4/11}}(0, 0) = (x_1, y_1), (\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}}) = (x_2, y_2).$$

$$\frac{\delta^2 f}{\delta x^2} = 12x^2 \Rightarrow 12(x_1)^2 = 0, 12(x_2)^2 = \frac{300}{100^{8/11}},$$

$$\frac{\delta^2 f}{\delta y^2} = 100y^3 \Rightarrow 100(y_1)^3 = 0, 100(y_2)^3 = \frac{100}{100^{3/11}}$$

$$D(0, 0) = 0 - 0 - 25, -25 < 0, D(\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}})$$

$$= \frac{300}{100^{8/11}} \cdot \frac{100}{100^{3/11}} - 25 = 300 - 25 = 275, 275 > 0 \text{ as alluded to earlier by}$$

$$\text{squares. Saddle point at } (0, 0) \text{ and a local min } (\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}}).$$

To show that is example allows proof as follows. Let condition  $a=b+1$  then  $ba^2 = 100$  so  $b(b-1) - 1 = 11$ , a prime.

To generalize  $f(x, y)$  as

$$f(x, y) = x^b - axy + ay^a, \frac{\delta f}{\delta x} = bx^{b-1} - ay, \frac{\delta f}{\delta y} = -ax + a^2 y^{a-1}$$

$$\frac{\delta f}{\delta x} = bx^{b-1} - ay \Rightarrow \frac{\delta^2 f}{\delta x^2} = (b-1)bx^{b-2}, \frac{\delta f}{\delta y} = -ax + a^2 y^{a-1} \Rightarrow \frac{\delta^2 f}{\delta y^2} = ba^2 y^{a-2}, \Rightarrow \frac{\delta^2 f}{\delta x^2 \delta y^2} = -a$$

$$bx^{b-1} - ay = 0, -ax + a^2 y^{a-1} = 0, x = ay^b, b(ay^b)^{b-1} - ay = 0 \quad \text{so}$$

$$ba^{b-1} y^{b(b-1)} - ay = 0,$$

$$y_1 = 0, y_2 = \frac{1}{100^{1/11}}, x_1 = a(0)^b = 0,$$

$$x_2 = a(\frac{1}{100^{1/11}})^b = \frac{a}{100^{b/11}}, y(ba^{b/2} y^{b(b-1)-1}) = 0$$

$$(0,0) = (x_1, y_1), \left(\frac{a}{100^{b/\pi}}, \frac{1}{100^{1/\pi}}\right) = (x_2, y_2), 144 : 8 = x^2 \quad \text{so}$$

$$\exists (y_1 y_2) = \{0\}, [x] = \pm 3\sqrt{2}.$$

$$\frac{\delta^2 f}{\delta x^2} = b(b-1)x^{b-2} \Rightarrow b(b-1)(x_1)^2 = 0,$$

$$b(b-1)(x_2)^2 = \frac{(b-1)100}{100^{2b/\pi}}, 100 \int \frac{\sqrt{1+x^2}}{\sqrt{2+x^2}} dx = 100iE(\operatorname{isinh}^{-1}(y/\sqrt{2}) | 2).$$

$$\frac{\delta^2 f}{\delta y^2} = 100y^3 \Rightarrow 100(y_1)^3 = 0, 100(y_2)^{a-2} = \frac{100}{100^{(a-2)/\pi}} \text{ so } y \text{ is the set of}$$

all primes  $\{P\} \rightarrow \{\sqrt{P}\}$  scaled by 100.

$$D(0,0) = 0 - 0 - a^2, -a^2 < 0, D\left(\frac{a}{100^{b/\pi}}, \frac{1}{100^{1/\pi}}\right)$$

$$= \frac{100(b-1)}{100^{(b+1)/\pi}} \cdot \frac{100}{100^{(b-1)/\pi}} - a^2 = 100(b-1) - a^2 = N, N > 0.$$

Saddle point (0, 0) and a local min  $\left(\frac{a}{100^{b/\pi}}, \frac{1}{100^{1/\pi}}\right)$  then the scaling operator is  $n+1$  equivariant.

If  $e$  is always  $\ln(e) = 1$ ,  $p > 1$ , so  $x^2 + y^2 + z^2 = r^2 \rightarrow x^2 + y^2 = z^2$  Then  $z$

is solved for all  $p$  is eliminated from the space:  $e^{3^2} + e^{4^2} = e^{5^2}$  So we showed  $a^2 + b^2 = c^2$  since  $3^2 + 4^2 = 5^2$ , contained by  $\forall p_1 p_2$  and  $4(a^2) = 100$ , then  $6^{2S} - 2^S = 5^{2S} + 3^{2S}$  responds by Riemann analysis.

$F(\phi, k) = F(\phi | k^2) = F(\sin \phi; k) = \int d\theta / \sqrt{1 - k^2 \sin^2 \theta}$ ,  $F$  is an Incomplete Elliptic Integral of the first kind.

$E(\phi, k) = F(\phi | k^2) = E(\sin \phi; k) = \int d\theta \sqrt{1 - k^2 \sin^2 \theta}$ ,  $E$  is an Incomplete Elliptic Integral of the second kind.

$$\int d\theta \sqrt{1 - k^2 \sin^2 \theta} = \int d\theta / \sqrt{1 - k^2 \sin^2 \theta}, \text{ implies } \int d\theta (1 - k^2 \sin^2 \theta) = \theta$$

$$\theta = M_0 / M_1$$

Thus the gap of the pythagorean given X. Y. Z. have allowed magnitude to adjust  $0 < 2 < 6 \rightarrow 11-13-17$  Every Manifold must match its radian manifold, if every linear node sits on the line of intersection.

Then  $k^2 = m \rightarrow 2\pi n + C = M$ , on  $(M_1, M_2, M_3) = (s+1, s, s+3)$  so  $M$  Magnitude Correct ( $s = \{S\}$ ).

Using Wolfram's Method in Mathematica the given Integrals are complete:

EllipticE, an Algorithm in Wolfram Language Documentation:

EllipticE[m] gives the complete elliptic integral E(m)

EllipticE[ $\phi$ , m] gives the complete elliptic integral of the second kind E( $\phi$  | m).

Then the pythagorean theorem is proved through the function system:

$$a^{1/2} + b^{1/2} = c^{1/2} \text{ is also true so by } \int \sqrt{(y^2+1)/(y^2+2)} dy = 1/r$$

$$\int (1/r) dr = \ln|r| = \frac{i}{3} (\sqrt{G} \sqrt{1-(G)^2} - 2F\left(\frac{1}{4}(\pi - 2\sin^{-1}G) | 2\right)) + C =$$

$$Ce^{\frac{i}{3}(\sqrt{G} \sqrt{1-(G)^2} - 2F(1/4(\pi - 2\sin^{-1}G) | 2))} = r, \text{ so by } G = 1 + \tan 2(\theta)$$

$\theta_1^2 + \theta_2^2 = \theta_3^2 \diamond$  for a translation between first and second kind elliptic functions on  $\theta \neq 100$

$$\text{If } \zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} = \frac{1}{1^s} + \frac{1}{2^s} + \frac{1}{3^s} = \frac{6^s + 3^s + 2^s}{6^s} = [y]$$

We know  $\zeta(s) = 0$  when  $s$  is one of  $-2, -4, -6, \dots$

$$\text{In } \zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} = \frac{1}{1^s} - \frac{1}{2^s} + \frac{1}{3^s} = \frac{6^s - 3^s + 2^s}{6^s} = -[y]$$

So ( $s$ ) is satisfied by the closure of equivalency and the saddle point within pole,  $s=1$

$$\text{If } -\sum N_T = b_4$$

We know an is doubled by {T} with no negative values  $b_1 + b_2 = -r$

Then the shape is reflected across the  $x$  axis with a segment bridging  $a_n$

We call this linear aim of the boundary closure of equivalency as follows.

#### Rationalization:

If  $s = \frac{1}{2} + it$ , our set  $\{s\}$  leaves the boundary of  $t \in T$  closed (1) by  $G$ .

If every value is contained by  $r \in R$  of our smooth set manifolds in  $3X - Y - Z$  dimensions. Given the Riemann Hypothesis,  $\theta = t$ , or  $\{s\} = \frac{1}{2} + i\theta$ .

Then let  $\sum T = t$ , Riemann Zeta Function can be replaced by its antecedent elements in square geometry  $\pm [x]$

Now  $z = x + iy$  is polar equivalent to its polar equation

$$\theta_1^2 + \theta_2^2 = \theta_3^2 \diamond \text{ for a translation between first and}$$

second kind elliptic functions on  $\theta \neq 100$ , thereby  $C$  is completely eliminated, or zeroed by the moving vertex.

The dispersion of primes is collected at the boundary of a semi-prime. We now call this the automobile method. When  $r=0$ , Riemann's Hypothesis simply describes a shape in Euclidean space, but invisible to its imaginary radii.

Goldbach is hitherto, the boundary sum of an arbitrary Riemann Space of rational smoothness checked through:

$$\{T\} \frac{dx}{dt} = \{S\} \frac{ds}{dt} = 0 \text{ everywhere in } \zeta(s) = 0 \text{ upon a full cycle' matrix.}$$

Then it is not solved on  $[n \times n]$ , a square matrix, but given room on  $1 \times n$  or a row vector of solvable polynomials, given the sets were non-singular, the analogy was to promote the inverse space of an invertible matrix.

If one takes the derivative of this 15piece polynomial set, its integral is the inverse operation, noting the set becomes contained then on  $\frac{1}{17} x^{17}$ , thus a prime composite of the prime containment in the finite field that divides the integer system until 17 is reversed at its prime 71, or  $p+54$ . Then  $p=17.54$  is the lower value with factors 1,3,6,9,18. We've shown  $144:8=18$ . So  $18r$  is geometric of the inverse notation of our deemed non-singular set, which is really a matrix

being communicatively transposed, until our 63digit system, which divides  $63|3 = 21$ , or  $|\Sigma| N_T \neq 1$  being reflected until termination of the action 7.

$\Sigma N_T = 8$ , even, while its total reflection  $|\Sigma| N_T = 24$ , also even

$$\rightarrow \Sigma | N_T \parallel r = \Sigma N_T$$

Then the system truly is geometric to T.

We note the system does imply  $63|7=r2$ , which moves our matrix subset past the point of  $15(r+1)+r=63$ , so we have shifted {A} and {B} through 7 steps in prospect of  $\pm r$ . The negative r value implies negative curvature on the finite field that expresses magnitude until the shape has no outer boundary to connect to, if the Riemann Manifold is the same unit spread width it started with, in this case  $p=11$ . So our saddle point never divides until  $11(2r)-r$ .

This concludes the base point of  $2r=d$ , or a diameter  $11d=r=63$ , the matter can be solved both reflections in the right, as in the left, which we show in doubling the starting digit by the last in (1). Then (1) is an immutable even, or unable to be fragmented by  $p_1+p_2$ . Then by the building of A, B sets,  $p_1$  or  $p_2$  moves to a negative value creating a gap that no longer follows the allotted system digits.

References:

Adaptations from: Homogeneous Riemannian Manifolds with Applications to Primes by Thomas Halley.

## THE STRENGTH OF THE CONTINUUM

**Topics:** Calculus, Number Theory, Chen Primes, Fibonacci Sequence/Spiral, Computer Science.

Chosen set is a Set of Rings that can be embedded in a relational elliptical torus of Radius 3. Define this radius as  $R=3$  because the method provides a prime set of any 2 elements within set size  $R-1$  to be even. This is an  $n=16$ , torus.

All outputs are prime numbers and the connection between the set of Rings, is the isometric symmetry of maximum Goldbach values under rules defined by strings breaking up the characters of each integer noted. Equivalent Integrals were checked using Wolfram Alpha. Meaning, probability integrals are evaluated to converge specific relations of general primes greater than 3 ( $F|H$ ) equates every polynomial as prime equivalent using a basic smooth topology. The generalization is made that any prime Radii close a set iff  $A+B=2N$ , if Merten's Logarithmic Summation Law includes.

Prime numbers that can be deformed as a polynomial solution being the closest solution to its derivative, a factor of itself on a Ring of Prime Radii. This is computational paper of number theory. A useful way to determine probability rich functions, a varying closing law which maps area equations under  $k+1$ , within spaces like Jones Polynomial. This then gives radial volume. Two knots of one or more finite prime sets describe the Laurent translation of this given set:  $2\{A\} + \{B\}$  such that  $k \cap R - 1$ , if  $p = \sum_k p_k X^k$ ,  $p_k \in F$ ,  $k \neq 200$  M is Euclidean Space, Knots are analyzed: 1388710 # max. prime knots with n crossings, that is at chosen  $n = 16$ . So between  $n = 13$ , 14 of the Tori Ring Set, every link  $\Delta k$  includes Time, then a cord defines  $(2391523 - 1388710)/3 \rightarrow 1002813|3$  for  $n = 14$   $(1388710 - 797389)/3 \rightarrow 591321|3$  for  $n = 13$ , they are harmonically Euclidian

knots to  $n = 15$ , 16 that mirror  $n = 13$ , 14 since leading an term are both additionally prime and are the same integer, so knots are harmonically B is written akin to the Fibonacci Sequence. Time is geometry, constructed so parallel computation of cords, or hypotenuse can be checked parallel to an even value given:

An elliptic scalar divides sets of  $\sum p X^k$ ,  $\{A\} = 11$   $\{B\} = 13$ , and  $\{F2\} = C2 = 17$ , which are 3 significant wisely chosen prime values.

Define H space:  $\mu: X \times X \rightarrow X$  with an identity element e such that  $\mu(e, x) = \mu(x, e) = x$  for all x in X. It is a topological space X.

A polynomial ring or polynomial algebra is a ring (which is also a commutative algebra) described in the set and set cones of one or more indeterminate with coefficients in another ring, wisely a field. Define the field as an arbitrary set of consecutive primes, which the square root is taken and approximated as a set of rational numbers as described in the duration of this paper. Evolve a broken Fibonacci sequence {B} to fix Tori radii to each connecting element which total  $n + 1$  units of the Elliptical Torus.

{A} has three fibonacci elements, 2, 5, 34. This shows that: any even integer greater than or equal to 4 can be written as an area that can be topologically molded to an event based system, of a minimum of two prime inputs, or a value greater than 3.

Solution involves the computer science characteristic that each string is its length, which is the number of characters in it, are summed.

To begin, solve the same idea in a system of decimal values. Cut each string prime rationally so unite reforms as first order Elliptic Torus [0].

{T} defines mapping torus. [t] defines stemming matrix of T.  $R = 3$ ,  $n = 16$  per sixteen dimension of prime outputs =  $p^*$  let  $x = 3$  on  $X = \{T\}$ . Let  $\tau \in X = \{\tau = r - 3\}$ , so  $A = \tau/p$ , then  $\alpha = \beta$ , leading term degree defines dimension Dim.

[a] is defined as having {T} being contained on  $N - 1$  subsets in H.

$\{A\} = \{a_1 = 2, a_2 = 5, a_3 = 38, a_4 = 223, a_5 = 34\}$ ,  $\{B\} = \{-1, -2, 5, -8, 13\}$

$$x^2 + a_1 = 11$$

$$x^3 - \sum_{n=2}^{i=2} x^n + b_1 = 17 \quad \text{rule 1 of [t]}$$

$$x^4 - \sum_{n=2}^{i=3} x^n + a_1 = 47 \quad \text{given } o = \text{odd}, E = \text{even}$$

$$x^5 - \sum_{n=2}^{i=4} x^n + a_2 = 131 \quad a_n \{o\} \rightarrow a_{n=E}, a_n \{E\} \rightarrow a_{n=o}$$

$$x^6 - \sum_{n=2}^{i=5} x^n + b_2 = 367 \quad b = \text{middle recursive elements}$$

$$x^7 - \sum_{n=2}^{i=6} x^n + a_2 = 1103 \quad \text{characteristic of Fibonacci B, such}$$

that

$$2n = 50, \Sigma B + 1 = 8, 8|2, .5(8)(2n) \leq$$

200

$$x^8 - \sum_{n=2}^{i=7} x^n + a_3 = 3323$$

$$x^9 - \sum_{n=2}^{i=8} x^n + b_3 = 9851$$

$$x^{10} - \sum_{n=2}^{i=9} x^n + a_3 = 29567$$

$$x^{11} - \sum_{n=2}^{i=10} x^n + a_4 = 88801$$

$$x^{12} - \sum_{n=2}^{i=11} x^n + b_4 = 265717 \text{ rule 2 of [t] describe additive prime or}$$

prime,

$$x^{13} - \sum_{n=2}^{i=12} x^n + a_4 = 797389 \text{ a1} = 2, \text{ a2} = 5, \text{ a3} = 38, \text{ a4} = 223, \text{ a5} =$$

34

$$x^{14} - \sum_{n=2}^{i=13} x^n + a_5 = 2391523$$

$$a3 = 3 + 8 = 11, a4 = 2 + 2 + 3 = 7 = a5 = 3 + 4$$

$$x^{15} - \sum_{n=2}^{i=14} x^n + b_5 = 7174471$$

$$x^{16} - \sum_{n=2}^{i=15} x^n + a_5 = 21523399$$

Note: all outputs = 32285717, only odd, 32285917 is prime

rule 3 of [t]  $\rightarrow a \in A$

{A} in Mertens is defined as having two states:

between a1, a2, an = (1,2) = 3(n-1) + 2 between a3, a4, an = (1,2) = 185(n-1) + 38 and a4, a5, an = (1,2) = 189(n-1) + 223

$$2\Sigma[A] + \Sigma[B] + 200 + \Sigma(\text{Dim } N - P \text{ prime outputs}) = p = 32285917$$

$\Sigma a_n = 1 - n + 263$ , 263 is prime, an open value when n = 1. Define n = 1 as non-circular

a4 is added twice because n = 11, n = 13, are both a prime number of dimensions must close twice given a5 is also the string closing mapping of 7, prime.

This is within n = 14, 16. This reflects all possibilities of dimensions being odd or even.

{A} becomes closed when n reaches R = 263, the maximum prime radius. Setting Fermat radius to 2.

$\Sigma a_n + 1 = 2$ , should  $2^{2^n} + 1$ , yield a Fermat set that can be integrated around elliptically. R = 3 is added on every prime event, should  $N + X_n + 200 = P$ . If P is a geometric space to define Dimension 11 in a geometric subset.

In a general sphere, then equate 3 manifold mapping to a difference of two primes closing at  $211 - 11 - 200 = 0$ , within  $X - Y - Z$ . This mapping describes a trivial set of  $\Delta p \geq 200$

Alternate N + C to be defined as C, a constant of integration and N, any integer that completes a prime sum

$N + C | 2n \leq 200$ , given elliptic,  $y^2 = x^3 - x^2 - 1 = 17$ , so  $y = \sqrt{17}$ , define this as a prime root bound.

$N + C = 4\Sigma \pi(x) | 200$ , Locate the derivative of an elliptic equation in an algorithmically

If  $A + B = 2N \cdot \pi(x)$ ,  $\sim \int_1^{p^2} \sqrt{(x^2+1)/(x^2+2)} dx$ , this integral must be

elliptical under R(T) and its dot product

T is the Tori Solve Time.

$$\pi(x) = R(x) - \Sigma \rho R(x^P) \leftrightarrow \xi(M) \subset |S_i| \in /H | S_2$$

This relation is seen by Riemann in addition of a density throughout real primes given zeros are found by n according to Merten.

Considerately, define R[x] as the set of all polynomials with coefficients in R.

This set forms a ring under polynomial addition and multiplication.

$\Sigma [\text{Tori Rings Outputs}] + 2\Sigma[A] + \Sigma[B] = P - 200 = P$  prime Polynomial Translation of Degree 2NL, L is length of Prime Volume If  $\Delta p = 200$ , total sets in dimension n = 1 are closed, then Dim 1 contains the Contour Set:

$$\text{iff } \Sigma n p^{2n} + N + C = \{P - 1\} = 2N, n = 1$$

$$n(t) = \Delta z_i = (z(t_i + \Delta t) - z(t_i)) / \Delta t \approx (dz/dt)(t_i) \cdot \Delta t / \Delta t, \text{ denotes a}$$

perfect curve.  $f(z) = (y - x)^3 - i3x^2$  where i3 is the derivative mapping

$2^{2n+1}$  can be chosen to drop radius by r - 1, as  $3\oint dx - C_1 = 2$  reverse

integrate the countour space as logarithmic of two ellipses then integrated within an elliptic integral :

$$(r - 1)^{2n+1} + C = \Sigma [\text{Dim } N - 16 \text{ Outputs}] + 2\Sigma \{A\} + \Sigma \{B\} + 200 = p \text{ so}$$

$$N * \Sigma (r - 1)^{2n+1} + C = 32285917, \text{ this is } \Sigma [\text{Tori Rings Outputs}]$$

$$+(x, x, x, \dots, x_i, x_{2i}, x_{i+ni}), \text{ in } R^1 = \oint_n f(\sqrt{p}) dp$$

$2^{2n+1}$ , at n = 12, = 33554432,  $33554432 = 29$ , count 29 as K = kill value.

$$2^{2n+1} - 1268515 = 32285917, \text{ reduce a surgery to a sizable magnitude of } 6 | 3 = 2, 1268515 < p\text{-knot max in } N = 16$$

$$X_1 = 2^{2(12)+1} + X_2 = -2^{2(9)+1} + X_3 = -6 \cdot 2^{2(8)+1} + X_4 = 5 \cdot 2^{2(6)+1} + X_5 = 10 \cdot 2^{2(3)+1} + X_6 = -2^{2(2)+1} - r = 32285917$$

respectively, this method is described as n = 12, 9, 8, 6, 3, 2, [0] if r = 3, n < 16, M(n\*) = 31231, or Z = map(-3, -1, -2, -3, -1, [-2]).

This is a prime number sequence whose M(n\*) is prime and -2 + 2 is the draw of two prime elements returning the Trivial Set.

$X_1 + X_2 + X_3 + X_4 + X_5 + X_6 - r = N * \sum_{n=1}^{i=6} X_n - r = 32285917$ , N is random and unique to each iteration. {n} is iterated 6 times, Set space of size 6 can reorder a randomized surgery, given  $(-3X_n, 3X_n)$  and given the Fibonacci Sequence is (0, 1, 1, 2, 3, 5, 8, 13, 21, 34), are both rationalized symmetries.

See rules of recursive addition of Fibonacci sequence (0 + 1 = 1, 1 + 1 = 2, 1 + 2 = 3, ...), so p1, p2 will be found from the given draw.

The set is closed on 34, being the prime string sum of 7, draw out its

bounds using Calculus of Tori,  $n = 16 \max$

Let the Riemann bound equate a broken Fibonacci sequence of

$S_1 = (-1, -2, 5, -8, 13), S_2 = (r, 21, 34)$  Let  $N^*$  be unique on  $N > 1$ , then  $\Sigma N = 21$ , completing  $P(X_1, \dots, X_6) = (5 \cdot 5, 19, 17, 13, 7, 5)$ , semiprime 25 defines rule 1 of [t]

$So |S_1| \in |S_2|$  given  $r = 3$ , and a neighborhood of complex variables can map out perpendicular values to  $Z$ , given that it is modularly complex within  $\pi(x)$  dotted on a  $2N$  interval, given 3 is returned at 21.

since  $2 + 1 = 3$ . Draw out 3 primes, eliminating an arbitrary prime then:

$\Sigma a_n + 1 = 2 - n = 0$  at dimension  $R_2$ , if  $f 263 \in X$ , if  $f 2\Sigma A + \Sigma B = \text{odd}$ , 309, but  $2\Sigma A + \Sigma B + 200 = \text{prime checked } 509$

isometrically 200 must be always a decimal bound for the computer string to recheck itself. See [2]

$X$  is made general to describe Goldbach values being added under and over  $263 > 200$  and  $263 > 4(2n)$ , given the following example: [1]

Define a summed 4 space on the before surgery within  $2n$ , given a prime event. Let  $2n = 50$ , form:  $2n = a + b$

$\{a_1\} = (3, 7, 13, 19) = \{p_{a1}\}, \{b_1\} = (47, 43, 37, 31) = \{p_{b1}\}$  then  $\{a_1\} + \{b_1\} = \{C\} = (3 + 47, 7 + 43, 37 + 13, 19 + 31)$ , isolate a movable  $bn = 31$  as being  $2D - 1$ , where  $N = D = 16$  so  $\{C\} = 50$ , then its elements define a set  $\{D\}$  from  $\{\Sigma a_1\} = 42, \{\Sigma b_1\} = 158$ .

Studying  $\Sigma a_1, \{a_2\} = (5, 11, 13, 19) = \{p_{a2}\}, \{b_2\} = (37, 31, 29, 23) = \{p_{b2}\}$

so  $\{D\} = 42$  since  $\{\Sigma a_1\} = 42$ , but  $\{\Sigma b_1\} = 158$

Studying

$\Sigma b_1, \{a_3\} = (7, 19, 31, 61, 79) = \{p_{a3}\}, \{b_3\} = (151, 139, 127, 97, 79) = \{p_{b3}\}$

implies there is a set  $\{E\} = 158$ , but  $\{\Sigma a_3\} = 197$ , and  $\{\Sigma b_3\} = 593$

$E$  is still even, as an even set, but the sums are prime lasting, define a movable corner. Being prime and odd they cannot be divided evenly.

19 is found in every  $\{an\}$ , this is the additive form of string:  $1 + 9 = 10$ , Let  $a = p + 2$ , of  $S$  space, a Chen P rime, then  $F(x)$  maps a Chen Opposite  $p = p - 2, \{p + P\}$ , Chen Set 139, a Chen P rime is found in  $\{b_3\}$  it is the smallest prime gap before a spread of 10. Where String can check base 10.

$\{a_1\}$  and  $\{a_2\}$  are Chen Prime Sets since all elements follow rule  $p = p - 2, \{\Sigma a_3\} = 197$ , a Chen P rime, or a counted element.

Where  $2N = p_1 - 2 + p_2 - 2 = 199 - 2 + 5 - 2 = 197 + 3 = 200, \{a_3\}$  is accepted as a Chen Set when  $\{a_3\}, \{b_3\}$  are differing.

So 79 is not included in  $\{a_3\}$  if counting unique elements, non-intersecting, in both sets, finally a polynomial to have unique  $k$ , as opposed. That is  $k$  is harmonically divisible within four vectors of a 3 sphere.

So there exist a movable set where  $4 \cdot \{A + B\} \leq 200$ , where the system follows given rules and sums are continuous unless there is a  $2N \neq p$ , then every  $\Delta p \geq 200$  exists where a Chen P rime,  $139 \leq 200$  by a factor of 61, also a Chen P rime =  $P$  c So this set is included in the

example of [2] given 200 can order a unique prime area of a given probability integral.

[1] is checked given  $61 + 2 = 63$ , and  $200 + 63 = 263$ , the maximum radius, by choosing 2 as proportional to  $\Sigma G$ , a Goldbach Set Function. Fractionally, 2 is the only value which can be minimized fully in  $\{2N\} = A + B$ , since 2 is the first known prime, and 63 is only odd.

$2n < p < 2n + 1$ , when  $2n + 1$  is only odd, a minimum  $p$  is called given a maximum  $p$  can be integrated.

19 is found within a multiple space of 3, so every integer stretched beyond 20 is contained in  $n + 1$  units of a Torus.  $17 + 2 = 19$ , the variable prime bounded on infinite primes within a specific topology of prime spaces, or simply non-divisible spaces.

In computer science additive number is a string whose digits can form an additive sequence.

Base ten is common and treating  $\{A\}$  as static be  $\epsilon < .2$  where a base can be changed from an arbitrary string from the standard numbering system. Then the spread is minimized.

Given a derivative can be taken of a function so that its integral produces  $2\xi$ , being even elliptical.

Define its balance being integrated within the torus of radius 3, given these equations map its structure.

Define every leading degree within each line of set  $\{T\}$  being the number of dimensions recorded in the Torus. Noted in [1]

$\Sigma a_3 + r = 200$ , given the static set must return to its isometric state given  $r = 3$ .

Goldbach list is now closed.  $\sum_{k=0}^{\infty} (-1)^k a_{a=0-a1+a2}$ , define prime numbers representing rational harmonies that conform to the second type of Euler transform, a technique for series convergence improvement.

#### Theorem 0:

Stitch the set  $f$  from  $(\text{Dim } n = 11, y^2 = 88801)$ , magnitude 5 prime cut to  $(\text{Dim } n = 16, y^2 = 21523399)$  by counting digits On  $n = 11$ , this dimension cut is to force  $\sqrt{13}$  to be estimated at 5 decimal places, small  $s$  as approximated

Within  $\Sigma an + 1$  creating a hole that can be wisely located.  $n = 16$  magnitude is attributed to  $\Sigma B + 1 = 8$  As  $n|2 = 16|2 = 8$ , forces decimal rounding of 8, on  $C0 = 17$ .

Count number of digit term places within  $p(s, s-1, s+2)$ .

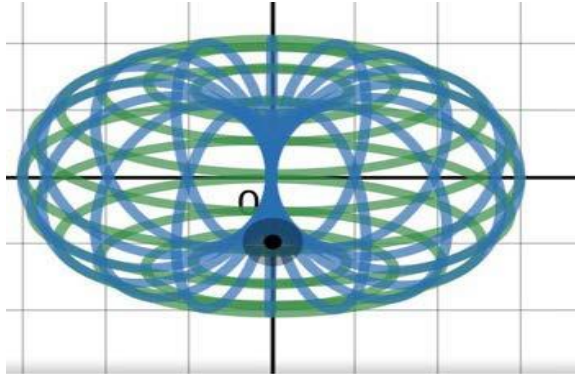
Given a greater circle connects every radius as prime, it can divide should  $M(6, 5, 8)$  be a valid magnitude function. Given  $M(p_1, p_2, p_3)$  show these primes to be consecutive (11, 13, 17) then  $M$  is magnitude function to decimal degree.

Define a curve between the suspension of these three primes in  $0 < p_1 - 11 < 6$ , inserting:

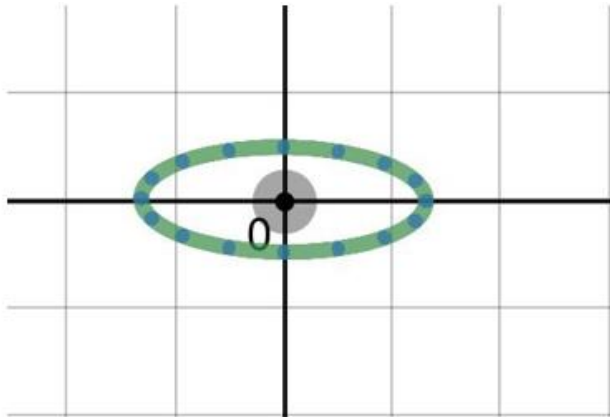
Merten's zero, 101, also Chen P rime, of his chaotic sequence within  $\pi(x)$ , minimizes  $k$  to be symmetric within rational expression, 13 is located as specified by the hyperbolic procedure as follows. Let rational prime expressions to break an arbitrary string count.  $2(101) - 2 = 200$ , this is  $O$ 's linear cut so  $6(13 - 11)$

$H = 2\xi|2N$ , a curvature map. Then  $2\xi|2N$ , even elliptical equations divide even integers, or any  $R = p - 1 = 2$

Define  $\lambda = 2, 3$  to be Eigenvalues of oscillating geometry that account for an infinite set of primes.  $\{P\} \neq \{iP\}$ , so (H|S) Figure 1-2.



**Figure 1)** Equating radii  $R = r$ , the hyperbolic structure can be found per a count of  $n = 16$ , rings defining dimensions.



**Figure 2)** When  $R$  and  $r$  are independent between 3 and 263 every even integer reaches a great circle space  $S_n$ , of prime roots.

They are spread being apart by 260, given 260 divides 2 as 130, 130 divides 10, as  $p = 13$ , providing  $n - 13 = 3$ , dim. Finding polynomial time is relative to the specific geometry of there being 16 total dimension in Tori. Giving 139

Geometry contains a Chen P prime found  $\{b_3\}$ , it provides  $(p_1, p_2) > 130$ , such that  $(137, 139)$  two smallest primes before 10 spread.  $p = 13$  is found within the geometry of number dimensions  $n - 1$ , at the line of  $X^{15}$ , within the set corresponding to the additive inverse. String Js can always reorder an integration within a Tori of  $[r, R]$  given the minimization of  $k$  in example [2].

Time solved cannot be removed from  $A \cap B$  because time is curved by  $H = 2\xi | 2N$

Equate a Ring P polynomials as an identical prime scalar, given every string  $J_s$  can be separated on S space and  $H = O$  curvature.

Rule of [T]:

Define two integrals as the numerical distance of an  $r - \text{ball's}$  matrix so [T] metrically forms the completed Null Space:

The complex plane of  $x + i13, 11 + i\infty, x + i17$  is mapped to the Tori area under this additive symmetry. Let  $r = \infty$  if curvature is found.

$\int e^x \sqrt{1-e^{2x}} dx = 11$ , 11 is defined as an average area function containing  $(13 + 17 + r = 3)/3$

$\int e^x (1 - e^x)(1 + e^x) dx$ , where  $u = 1 + e^x, du = e^x dx$ , arbitrary two primes are true transcendently, given Chen Sets  $e^X = \{P, c\}$

$\int \sqrt{u(2-u)} du = 1/2(u-1)\sqrt{2u-u^2} + 1/2(\sin^{-1}(u-1)) + C$ , calculated using algorithmic techniques and by Wolfram Alpha derivative of  $1/2(u-1)\sqrt{2u-u^2} + 1/2(\sin^{-1}(u-1))$

$$\int \sqrt{-(u-1)^2 + 1} dx = \int \sqrt{-\sin^2 \theta + 1} \cos \theta d\theta = \int \sqrt{\cos^2 \theta} \cos \theta d\theta = \int \cos^2 \theta d\theta = \int (.5 \cos 2\theta + .5) d\theta$$

$$= .25 \sin 2\theta + .5\theta + C = .5 \sin \theta \cos \theta + .5\theta + C = 1/2(u-1)\sqrt{2u-u^2} + 1/2(\sin^{-1}(u-1)) + C$$

$$\text{So } y = \int \frac{C^2}{C^1} e^x \sqrt{1-e^{2x}} dx = .5(e^x) \sqrt{2(e^x+1)-(e^x+1)^2} + .5(\sin^{-1}(e^x)) + C,$$

when  $x = 0, y = 0$ , on  $y = G(x)$

The origin is set as a vertex, of  $(x, y) = (0, 0)$ ,  $r = \infty$  then an cone is chosen to maintain two bounding primes of  $G(\tau)$  then  $x \in X$  for a scalar  $a \geq 0$ , where "a" is a unit value of the matrix of size [16].

By definition  $z = x + iy$ , when

$$\int_a^b \sqrt{(x^2-1)/(x^2-2)} dx = E(\sin^{-1}(x/\sqrt{2})/2), \text{ a second kind elliptic equation as shown again.}$$

It's differentiable and able to be integrated under elliptic equations if its imaginary part cancels out this leaves  $z = \pm x$ , under the rule of  $.5(e^{iy}) \sqrt{2(e^{iy}+1)-(e^{iy}+1)^2} + .5(\sin^{-1}(e^{iy})) + C$  where  $C_0$  is carried through the topology of a cone embedded Torus.

$C = M_1/M_2$  where its differential equation  $\xi \frac{d}{dx}$  shapes magnitude value on  $z = x + i11, z = x + i17$ , force the prime index to be conjugated on a reflection of real number 13.

in  $\{T\}$  under  $\{P\}$  where  $\{iP\}$  exists on the negative portion of the cone within the,  $(N-1)5$  on  $x = 3$ , a f if th harmony given the elliptical Torus of  $R = 3, N = 16$ , enables every ring is also differentiable under prime identity, and regarded as true, since constructed, so every discrete prime can then be added.

**Merten's Logarithmic Summation Law as:**

$$\forall a \exists A \leftrightarrow \sum_{p < x} \frac{1}{p} = \log \log x + A + O((\log x)^{-1}) \rightarrow x \in X \rightarrow 11 < p < 17$$

$O < p - 11 < 6$  gives  $B - 1 \leq \{6\}$ ,  $\Sigma A + 2 = (2 + 5 + 3 + 8 + 2 + 2 + 3 + 3 + 4) + 2 = 32 + 2 = 34$ , on rule 2 of [t], a Fibonacci number.

When  $(\Sigma B - 1)/2$  a set size of arbitrary two primes is left t. O's behavior is chopped given this linearity.

Set size may be  $6/2 = R$ , but with respect to base of 2. B has 6 elements so we can fix  $R - 1$  always and express linearly:

$$I + C = \{6\} - \{2\} + \int_{p+n1}^{p+n2} dx \rightarrow T \in N = \{P\} \quad R(n) \text{ is continuous within}$$

prime outputs of  $\{T\}$ .

$$R(n) \sim 2\Pi_2 \Pi_{k=2} \frac{pk-1}{pk-2} \int_2^n \frac{dx}{(\ln x)^2} \rightarrow \Delta pk \quad \text{on Jones Polynomial}$$

$$\rightarrow C + \int_a^b F(y) dy = \int_a^b \sqrt{(y^2+1)/(y^2+2)} dy + r + 1 \approx \sqrt{17}$$



$\int (\sec^3 x / \sqrt{y^2 + 1}) dx = \int (\sec^2 x (\sqrt{\tan^2 x + 1} = \sec^2 x / \sqrt{y^2 + 1}) dx$  where  $\tan x = y$ ,  $dy = \sec^2 x dx$ ,  $C = 4$

$$\int (\sec^3 x / \sqrt{y^2 + 1}) \frac{\sin x}{\sin x} dx = \sec^2 x$$

$$du = 2 \sec^3 x \sin x dx \sqrt{u} = \sec x, \sin x = \sqrt{(u-1)/u}$$

$$\int (\sec^3 x / \sqrt{\tan^2 x + 1}) \frac{\sin x}{\sin x} dx = \int \sec^3 x / \sqrt{\sec^2 x + 1} \frac{\sin x}{\sin x} dx$$
 So

$$\int .5 \frac{\sin x}{\sqrt{u+1}} du = .5 \int \frac{\sqrt{u-1}}{\sqrt{u+1}} du$$

$$.5 \int \sqrt{(u^2 - 1)/u} du, u = \sin w, du = \cos(w) dw \text{ then } \int \frac{i}{2} \cos^2 w / \sqrt{\sin w} dw, \text{ when}$$

$w = x...$

$$\text{Wolfram Alpha: } \int F(x) dx = (2/3) \frac{i}{2} (\sin^{1/2} \cos x - 2F(1/4)((\pi - 2x)/2)) + C$$

$$= C + \frac{1}{3} (\sec(\tan^{-1} y) (\sqrt{1 - u^2}) - 2F(1/4(\pi - 2\sin^{-1} G) | 2))$$

$$u = G = \sec^2(\tan^{-1} y), \frac{i}{3} (\sqrt{G} \sqrt{1 - (G)^2} - 2F(1/4(\pi - 2\sin^{-1} G) | 2)) + C = \int F(y) dy =$$

$\int \sqrt{(y^2 + 1)/(y^2 + 2)} dy = iE(\sinh^{-1}(y/\sqrt{2}) | 2) + C$ , elliptic Integral of the second kind mapping y as opposite x. Then H|X

So

$$iE(\sinh^{-1}(y/\sqrt{2}) | 2) + C = \frac{1}{3} (G^{1/2} \sqrt{1 - G^2} - 2F(1/4(\pi - 2\sin^{-1} G) | 2)) + C,$$

domain of  $\tan^{-1} y = (-\infty, \infty)$  where r is positive curvature then

$$3E(\sinh^{-1}(y/\sqrt{2}) | 2) = \sqrt{G} \sqrt{1 - (G)^2} - 2F(1/4$$

$$(\pi - 2\sin^{-1} G) | 2, d(x, y) | 2 = \Delta \{R\} \subset 2N, D(x, y) \text{ a function of Dim}$$

Curvature  $E(y) = F(G)$ ,  $\xi_2 = \xi_1 \rightarrow \sinh^{-1}(y/\sqrt{2})$  includes hyperbolic

$$\text{node } y = \sqrt{2}, x = \sqrt{2} \text{ on } E(\sinh^{-1}(x/\sqrt{2}) | 2)$$

$$\text{arcsinh}(1) = \text{Ln}(x + \sqrt{x^2 + 1})$$

$$\text{arcsinh}(1) = \text{Ln}(1 + \sqrt{1 + 1})$$

$$\text{arcsinh}(1) = \text{Ln}(1 + \sqrt{2})$$

$$\text{arcsinh}(1) = \text{Ln}(2.4142135623731)$$

$$\text{arcsinh}(1) + .12 = .881373(58701954) + .12 \approx 1, \text{ this mean } J0(12)$$

estimates deformable rational prime fractions deviations [z] such that 13, 73  $\in$  881373, primes separated at the hyperbolic geometry that account for the middle prime 13, forcing two prime elements. given 73 exists at the magnitude value of 6. 19 exists in (58701954) so the algorithm can recheck itself for the base change bn.

.12 exists on  $M(12) = N = 12$ , and hyperbolic geometry confirms this notion as  $R1 = 3 - R2 = 2 = 1$ , so a minor radius finds  $\text{arcsinh}(3 - 2)$  producing 19 at 1012 decimal places  $.881373(58701954) * 1012 = 8813735870(19)$ . This is the formulaic way base is shifted from 10 = 9 + 1

$$F(\phi, k) = F(\phi | k^2) = F(\sin \phi; k) = \int d\theta / \sqrt{1 - k^2 \sin^2 \theta}, F \text{ is an Incomplete Elliptic Integral of the first kind}$$

$$E(\phi, k) = F(\phi | k^2) = E(\sin \phi; k) = \int d\theta \sqrt{1 - k^2 \sin^2 \theta}, E \text{ is an Incomplete Elliptic Integral of the second kind}$$

$\int d\theta \sqrt{1 - k^2 \sin^2 \theta} = \int d\theta / \sqrt{1 - k^2 \sin^2 \theta}$ , implies  $\int d\theta (1 - k^2 \sin^2 \theta) = \theta$  so every angle of the Elliptical part Torus is solved for. [c]

$\theta = M / M$  if  $\theta = M / M$  exists  $k^2 = m$ , then m is an elliptic scalar of  $2\pi n + C$

However, Wolfram Alpha checked the given by hand manipulation complete elliptic equations, so  $\theta$  is fully retained on  $4\pi n + m = k^2$

Elliptic E, an Algorithm in Wolfram Alpha:

EllipticE [m]

Gives the complete elliptic integral E(m)

EllipticE [phi m]

Gives the complete elliptic integral of the second kind E(phi | m) See

References

$\int e^x \sqrt{1 - e^{2x}} dx$  connects nodes of every knot between the complex elements. When  $e^x = G$ , in total equating if  $x/2 = \tau/4$  then a trigonometrically balanced delta on a General Three Sphere, given in four dimensions every radii is equidistant to some fixed point of  $X - Y - Z$  if the extension is harmonic at 101, also a Pc. Chop the radius length along an elliptical path given  $2r = d$ , dimensions, then the EllipticE system must f

$$\text{luctuate only on } \int_{x=p1}^{x=p2} G(x) dx = 2N$$

{T} series  $\sum a_n$ , whose Euler transform converges to a sum, then that sum is labeled the Euler sum of the original series.

It's seen that  $\xi_1$  and  $\xi_2$ , being of first order and second order, can move our system at any prime distance, given a smooth topology of  $U(x) \rightarrow V(y)$  within a mapping of  $X - Y - Z$ , W RT in the complex plane. One can see that a trivial set can be chosen to maintain a Torus' Rings through a prime value, of being either valid or false. If valid the set of Euler iE can be mapped to a real set of F, Given the first Fermat numbers are {F 0 = 3, F 1 = 5, F 2 = 17, F 3 = 257, and F 4 = 65537}.

Notice within set {T} that element x3, F 2 is Found, and  $R = F 0$ , in fact the formulaic way, within this elliptic set each  $3E(y) \rightarrow F(g)$  translation is made is going from  $2F 0 + F 3 = 263$ , given  $r = 3$ , closes the set  $R = 263$ , opens it.

It is not known if there are an infinite number of Fermat primes but compare  $\sum a_n$ , as a completed sum returning n - primes scaling to null.

{S|H} space contains infinite {P}  $\in$  {T} when 50 is partitioned in Goldbach. Euler Set remains even since string 19 of an = {3} see [1]  $(1 + 9) = 10$  on a magnitude of (- 3, 3) being a 6 object magnitude spread. Increase an object as being odd or prime.

Only  $A_n$  numerical topology can be made on any degree of n given  $2 + 1$  is a F - prime and  $263 = 2(3) + 257$ , on  $2F 0 + F 3$ ,  $4(2n) \leq 200$ , given  $2n = 50$  is isometrically balanced within r in given Goldbach Set.

This means every balance equates an even Sine wave function  $(G(x))$  that is harmonious to an elliptic area per a radial volume. Approach Goldbach integrally by the trace  $r = R$  as closing hyperbolic geometry and [r, R] independently within Euclidean 4 space, a general sphere as prime closing.

Note P V = Dilemma, the prime volume of a general 3 sphere in 4 Euclidean space.

Finally Dim 11 is equated to  $y = \sqrt{p-2}$ , from this dilemma since

$\log(10) = 1$  within Mertens law that so  $\sqrt{y^2 + 1} / \sqrt{y^2 + 2}$  becomes  $\sqrt{p-1} / \sqrt{p}$ , this is conclusive evidence of O's negation. So within a general only prime approximation in  $\sqrt{11} = 3 + 101 / 317 - 1 / 503$ ,

$\sqrt{13} = 3 + 157 / 233 - 29 / 419 + 1 / 1051 \sqrt{17} = 4 + 53 / 433 + 3 / 4177 - 1 / 69127$   
, compare  $\sqrt{11} = 3.31662479036$ ,  
 $\sqrt{13} = 3.60555127546 \sqrt{17} = 4.12310562562$  so magnitude correct is:  
3.31662391581, 3.60555880677, 4.12310560026 and by inspection  
determines Decimal Magnitude of  $M(6, 5, 8)$  decimal places. The balance  
occurs on  $\sqrt{11}$  since 101, is the only 0 found in a Merten spread.  
Every prime fraction can be equated within  $\sqrt{p} = A + N \frac{c}{p}$ , if  
 $\sqrt{p}(N1) = N2 \leq A$  by hyperbolic a node  $J_0(\sqrt{2}, \sqrt{2})$ , given  $d(x, y)$  is a  
Riemannian Manifold that contains  $d(x, y) = (\sqrt{2}, \sqrt{2})$ , then  
 $\lim_{k \rightarrow \infty} a_k / c_k = \lambda \neq 0$ , then  $\lambda = 2, 3$  given  $\{T\}$  implies  
hypergeometric torus to sphere conformity.  $6|\lambda \rightarrow (\lambda 1, \lambda 2)$

### Theorem 1:

Prime rule:  $3\xi \rightarrow d(x, y) = \sqrt{2} / \sqrt{2} = \tan(\theta)$ ,  $\theta = \frac{\pi}{4}$ , given  $\pi$  exists in  
a 3 sphere per four dimensions.

Then  $a_n$  in a fibonacci ring is fixed by the translation of  $b$  so

$$\sum_{k=0}^{\infty} (-1)^k a_k = a_0 - a_1 + a_2 \text{ where } A_n \geq 1, \frac{p1}{p2} \rightarrow \frac{M1}{M2}$$

$M(x)$  square count includes free integers to  $x$  so even number of  
prime factors, minus the count of those to be odd in  $M(n)$ , when  
Mertens is of chaotic nature, first zeros produced by  $n$ : 2, 39, 40, 58,  
65, 93, 101, ... (7 elements in a Fibonacci Mirror) Showing  
handedness of a Riemann sum balancing  $(s, s-1, s+2)$ ,  $\pi(x)$  must be  
balanced only once. So  $P$  prime count can be integrated. Rounding is  
done per  $\varepsilon < .2/n$  corrective since the algorithm is a derivative of base  
10 in the decimal direction.

Every domain is either rational or irrational smooth.

Elliptic equations define smoothness. Mertens is chaotic in nature  
when these  $n$  values cause it to pass through 0.  $W$  here a  
perpendicular distance defines a timeline  $n$ , so that  $RN = SN$  if  $n \in$   
 $N$ , therefore solve time is the polynomial written over a mobius  
function  $\mu(k) = \mu(x)$  Let

Merten's Function  $M(n) = \sum_{k=1}^n \mu(k)$ , return  $k + \Delta x$  if  $k = 200$ .  $T$   
hen a diagonal cord "c" splits the mobius shape per knots in its area  
 $[Z]$ .

### Theorem 2:

$M(x)$  is the count of square - free integers up to  $x$  that have an even  
number of prime factors, minus the count of those that quantitatively  
form an odd number. Choose a cord from Theorem 1 to complete  
the distance of radial translation given Incomplete  $\xi$ ,  $\xi_1$ ,  $\xi_2$ , and  $\kappa$ ,  
equate each area and ratio to the greater circle's elliptic nature on  
collapse of  $O$  on  $2N \geq 2 + \Sigma$  Mertens  $(2 - 101) = 400$  being elliptical  
equations of the first order  $m = k2$ , and second order  $m = k2$ , so  
equate Mertens containing all  $k$  elements.

The complex span are simply connected within the Tori, where two  
primes connect every even interval of a 3 sphere.

Through a topology diagram including  $\sum_{k=1}^n \mu(k)$ , where  $\mu(k)$  is a  
mobius function tied to a mobius strip. Call this prime area.  
see graph:

$Z(\Delta f) : \{f(x_1) = x^3 + 5x - 3, f(x_2) = x^3 + 5x - 3x^2\}$ , tie a  
square node, rectangularly, curve is crossed on a square loop.

$\Delta z_i = (z(t_i + \Delta t) - z(t_i)) / \Delta t \approx (dz/dt)(t_i) \cdot \Delta t / \Delta t$ , denotes a perfect

curve.  $f(z) = (y - x)^3 - i3x^2$ , where  $i3$  is the derivative mapping

$\int f(x) dx = \int G(x) dx = \oint CK^2 dm$ , where  $dm$  is the integrated area of  
 $m$ , or the bound of the elliptical equation. then  $f(z) = z^3 + 5z - 3$ .

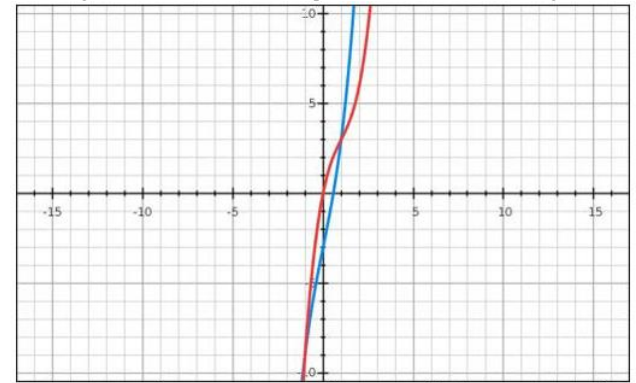
$f(z) = z^3 + 5z - 3x^2$ , if  $z = x + iy$ ,  $f(x, y) = xy$  if  $Re(z) = x, Im(z) = y$ ,

then  $f(x, y) = Re(z) Im(z)$ , so  $\int Re(z) Im(z) dx dy = \oint CK^2 dm_1 dm_2$ ,

where  $(M_1, M_2) = (M_1 + iy)(x + iM_2) \rightarrow \frac{2}{3} M_n \xi K^3$  so  $\left[\frac{2}{3} \times \frac{i}{2}\right] M_n CK^3$  exists

on  $\sin^{-1}(1) = \pi / 2$ , or perpendicular to  $[X_n^k | \xi K^3]$ . The Euclid

Space of a Contour integral mapping to the deviation curve  $J0 =$   
 $1/(5n)$ , given  $N - 1$  Sub Intervals per  $bn = 3$  of an  $r$  - ball Figure 3.



**Figure 3**  $Z(iy) : \{f(x_1) = x^3 + 5x - 3, f(x_2) = x^3 + 5x - 3x^2\}$ ,

$f'(x_1) = f'(x_2), 3x^2 + 5 = 3x^2 + 5 - 6x, 6x = 0, x = \frac{0}{6}$ , the topology

exists on  $aR = b \frac{0}{6}$  of  $C_1$ .

[b]

Let  $C_2 = \frac{B}{A}$  modular  $D$  dimensions be a set of 3 manifold ties on  $R^3$   
 $= S^3$  or a knot with 3 dimensions:

let  $x = 3$ , note all expressions are equal to prime numbers, begin  
within  $x^2 + 2$ , where 2 corresponds to 2 elements.

$x^2 + 2 = 11, a = 2$ , this defines  $2 = y^2$ , so  $x^2 + y^2 = 11$ ,  $r$  - knot to be  
justified in  $(\Sigma B - 1) | 2 = 3$ , then check "r" as Euclidian.

$x^3 - x^2 - 1 = 17$ , mid constant - 1

$x^4 - x^3 - x^2 + 2 = 47, a = 2$

$x^5 - x^4 - x^3 - x^2 + 5 = 131, a = 5$

$x^6 - x^5 - x^4 - x^3 - x^2 - 2 = 367$ , mid constant - 2

$x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 5 = 1103, a = 5$

$x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 38 = 3323, a = 38$  deformed at 3  
+ 8 = 11, found at 6 decimal places within Dim 11  $\rightarrow$  88801

$x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 5 = 9851$ , mid constant 5,  
deformed statically as an imaginary prime

$x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 38 = 29567, a = 38$

$x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 223 = 88801, a = 223$

, stemming set [7, p]

$$x^{12} - x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 - 8 = 265717$$

, mid constant - 8

$$x^{13} - x^{12} - x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 223 = 797389, a = 223$$

$$x^{14} - x^{13} - x^{12} - x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 34 = 2391523, a = 34$$

, stemming set [p, 7]

$$x^{15} - x^{14} - x^{13} - x^{12} - x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 13 = 7174471$$

, mid constant 13

$$x^{16} - x^{15} - x^{14} - x^{13} - x^{12} - x^{11} - x^{10} - x^9 - x^8 - x^7 - x^6 - x^5 - x^4 - x^3 - x^2 + 34 = 21523399, a = 34$$

The set provides a mode of cancelation such that each magnitude decreases at the rate of a set size of 6 primes, or 6 | 3 objects. By the

surgery of  $r - 1 = 2$  on  $N * \sum_{n=1}^{i=6} X_n - 3 = \{P\} \leftrightarrow \{T\} \rightarrow r, N * > 1$ , so

$$\frac{dx}{dt} = 0$$

Imaginary or prime values being led to a minimum of two primes given the initial geometry of a circle at radius 11.  $y = \sqrt{2}$  implies that there exists an empty node where  $\xi 2$ , elliptical equation, of the hyperbolic space is no longer imaginary given J0 provides a real scale of 2N dividing. This circle, when revolved on  $x = 3$  of 3 mapping contours.

Provides that the 3 manifold set is indeed bound on 2 primes, providing the shape of a general sphere in even space.

Set can be written as this expansion of linear subsets. However, unknown values are 34 within A, since A is the varying degree of Mertens.

$\tau \rightarrow 0$ , when local time expands from 0, when (HIF) is functionally valid on contained time T. Then  $\{T\} \frac{dx}{dt} = F'(f(g)) = T$

Since area can be checked at the same time as any solved number, then equate the additive inverse of  $\int ABdb$  as seen finally.

Rule  $X / 2 \rightarrow P$  rime numbers being written over E, Euler Transform, in transformable rings of any converging steady state polynomial. Merten's law closes  $\{2A_n + B_n\}$ .

For example: 2 can be added to 11, which is 13. All of which are prime, where 211 is prime, but hyperbolic to 4 since  $2 + 1 + 1 = 4$  but so is  $200 + 11$ . Although, 200 is a reduction state inequality of  $\xi$  and must be decimal even.

Goldbach base change as logarithmic, in effect of a Torus Singleton if comparably  $A + B = 2N$ , is proved on a unique sequence [2].

Let A and B be both prime such that  $A + B = 2N$  where  $2N \geq 4$ , by example : 4 is hyperbolic even given a draw 412 can be found Let foundations in complete the proof [1].

Within  $R^{K+1}$ , let  $c^2 = k^2$ , c is a given hypotenuse of a general triangle mapping 3 space within the sphere

$k \in \frac{M1}{M2}$ , confirm  $(x^2, mx^2i, \dots Lx^2, 2(n+1))$ , given integrals map an arbitrary p area implying that another p bound can be found.  $K + 1$  corresponds to Jones polynomial, varying the autonomous quality of any prime set of a chosen interval.

$$\sqrt{p} = A + N \frac{c}{p}, \text{ if } \sqrt{p}(M1) = M2 \leq A, n \geq 100 \text{ given } 101 \text{ Chen}$$

Merten harmony on "O" of Merten's Logarithmic Function  $k + 1 = \log_b w + 1$  for  $k \geq 0$ , so  $k \geq a$ , A being a cone set to an elliptic

scalar n then there is  $o < \log_b w + 1 < \xi$

simply defined for any  $\xi < 1.2$  of the hyperbolic node integrated for mean .12 in [z] closing z elements on continuous tin choose primes A to be 11, and B to be 13 so if there is a movable base set l{b}l, all of which has Fibonacci elements then there is found a set l{a}l containing only three Fibonacci elements, where the movement of

this sequence is defined as general objects within  $S_n = s_1 \in s_{N+1}$

then {b} forces {a} to have 3 objects on knot space  $R^3$

since  $11 < p1 < 17$ , then  $0 < p2 - 11 < 6$ , so  $a12$  corresponds to the Elliptical Torus of  $R = 3$  and  $p2$  must be 13, so  $0 < 2 < 6$ , then  $612$ , leaving 3 objects that can be tied at each node of a string Js,  $a12$  of  $R = 0$ ,  $r = 3$  and is a sphere bound. Being a prime distance and implying that two prime objects, A, B complete the sum if [if  $F 2 = C2$  is algorithmically configured]. A prime area of  $p1$ , must find  $p2$  to complete  $2N > 3$

In an elliptic Integral, a prime probability function of a specific line converges on two elliptic equations  $2\xi | 2N$

Then  $m = k2$ , defining first and second order elliptic equations such that  $\log_b w < 1$ , a set {b} to any order of base so k is elliptically minimized.

If  $\alpha = \beta, a^2 = Ax$ , Area,  $na^2 = \text{volume}$ , then  $na2 = nAx$ ,  $b2 = A$ ,  $nb2 = nAx$

$$a^2 + nb^2 = nAx + Ax$$

$$\text{Let, } (1/2)(a^2 + b^2 + nb^2 + na^2) = nAx + Ax$$

if 2 is set to the string length of an arbitrary factor in computer science,  $p + 2$ , is a balance in [1] Chen Sets by the additive inverse property in a ring within given geometrized set  $\exists \{T\} \leftrightarrow \forall \{\tau\} + \Delta x$

$$\text{Adding } a^2 + b^2 + n(b^2 + a^2) = 2(nAx + Ax)$$

by the Pythagorean theorem

$$c^2 + nc^2 = 2(nAx + Ax), \text{ so } nc^2 = -c^2 + 2(nAx + Ax), \text{ or}$$

$$n = -1 + 2(nAx + Ax) / c^2$$

then  $n + 1 = 2(nAx + Ax) / c^2$ , we approach infinite primes within the elliptic scalar n, in n dimensions.

Define  $n + 1$  to be  $F_s = n + 1$  where the Fibonacci Spiral separates area from the following dimension in {T}

The system only enters the first Mertens state if its bn value approaches a set size of {2}, non-circular.

This must only mean that  $A^2 + B^2 \approx (C2)^2$ , where  $112 + 132 = 290$ , and  $172 = 289$

So  $11^2 + 13^2 = 17^2 + 1$ , this means that A and B are unique under a parallel area, where area is checked numerically, algebraically.

$Z = n + 1 = 2(nAx + Ax) / c^2$ , where area is checked as a parallel computation to  $n + 1$ , where  $np = 289 + 1 = 290$

The prime scalar is a verified solution to a verified easily checked solution in an arbitrary geometrized polynomial ring.

See part [a]  $(1/10)(200 < 263 < 290)$ , or  $200 < \text{Maximum Radius} < 290 < 2 + L$  Mertens Zeros  $((2-101) = 398 + 2 = 400$

then if  $20 < 26.3 < 29 < 40$ , the Maximum decimal radius is still less than a prime 29.

String 2 + 9 returns to 11 so Dilemma = P V is sorted as a solution in polynomial Time given Matrix Set {T} and Parallel Equation Z, given

base 10 reorders standard sets of primes and there are two set states in [a] which allow  $R = 263$  to always be true and open the set at a maximum, given  $\text{tip} > 200$ . provided before  $\text{Lan} + 1$  has two states.

Prime function  $\mu(x)$  creates equations that can reorder 263 as two separated  $F - P$  rime sums as seen earlier, then  $C = 4$ , integrated between the Elliptic Set of every node that can be tied in  $n = 16$  knots as the exact elementary base  $b$ , given the number of fibonacci elements must be even so [a] is left with only  $p - 2$ , Chen factors given Fermat equations are used because they increase the prime finding rate

sufficiently at  $2^{2^a} + 1$  provided an elliptic fluctuation.

Of the surgery at eigenvalues  $A = 2$ ,  $A = 3$ , are corresponding prime radii. Given the two states reverse integrate logarithmic ellipses.

$2\xi 2N \leq 200$ , if Goldbach values are assigned as in [1] then the differential equation  $\xi dx / d\tau$  shows  $T$  solved in geometric 3 space.

From a second Euler Transform of a Torus within  $T$ , a solve time, as a radial component of a sphere, being set at  $(p1 - 2) + (p2 + 2) = p1 + p2$  when  $r = \tau / 2$ , if time solved between area and elliptic area minimize  $k$ , of  $2\xi$  order 1, 2,

$T$  then  $p1, p2$  can always be integrated on an even basis, so...

$\sum_{k=0}^{\infty} (-1)^k \sqrt{a_k} = \sqrt{p} \approx A + c_1 / p_1 + c_{n+1} + \dots$  if torus radius is defined on  $k < \Delta p \approx (n = np \cap (A + B) \setminus 2N$  if  $a_{k2}$

Then the Euler transform is between the area solved in a probability function given  $\sum_{k=0}^{\infty} (-1)^k a_k = a_0 - a_1 + a_2 + \dots$

So two primes are left to be added of any arbitrary  $2N > 3$  relation, given a string is connected evenly on  $n \geq 1, n + 1 \in 16$  Torus

The solution is seen on  $n + 1 = r + 1 = 2 + 1$ , by surgery of  $P = N_* \sum X_n - 3$  as calculated in the first cut surgery of this paper. So  $p$  within Merten's Law Fluctuate between eigenvalues of  $\lambda = 2, \lambda = 3$ ,

Where  $G(\tau) = \sin(G(\tau))$  such that  $k \cap R - 1$  if  $p = \sum_k p_k X^k, p_k \in F, k \neq 200$

$A + B = 2N$  is always true given a knot can be tied at the amplitude of a harmonic wave, given

$$\left( \int_a^b e^x \sqrt{1 - e^{2x}} dx \right) / \left( \int_{c1}^{c2} \sqrt{(1 + y^2) / (2 + y^2)} dy \right) = \frac{M2}{M1}$$

Where  $\frac{(ex)2(e^x+1)-(e^x+1)^2+(\sin^{-1}(e^x))}{4\xi}$  So any prime value can be

checked to find  $2N$  elliptic equations given  $4(4\xi) = 2N$ , at  $N = 8$ , or half of the Tori Dimensions, so an arbitrary  $p1$ , added to a solved  $p2$  complete.

$[S] = [0, 1, 2, 3, 5, 8, 13, 21, 34]$ , at  $p = 32285917$ ,  $Q = \text{prime}$ , so

$R^{p=17} \rightarrow A + B = 2N \geq 4 + \infty$ , if  $A + B$  exist on  $k \neq 200$ ,  $k = m^2$  and by

[c] where  $0 = M_0 / M_1$ , so every action is accepted by the Tori recording in a given complete elliptic  $\tau$  geometrization.

Then  $e = \sqrt{1 - \frac{b^2}{a^2}}$  is  $E(k)$ , a complete Elliptic Integral of the first kind.

So every  $e(\tau) = E(k)$ , if  $A + B = 2N, b = M2, a = M1$  This occurs on

states  $(-3a_{n=1}, 3a_{n=2})$  given the surgery  $P = N_* \sum X_n - 3 = p$ , then  $x = \pm 3$ , or every symmetric zero of  $\{T\}$  matrix.

this forces  $A + B = 2N$ , given  $2N \geq 44$  is a knot that can be tied to form this prime in any integer succession towards  $\infty$ .

The maximum knots of  $r = 3$ ,  $R = 263$ ,  $N = 16$  of the Torus imply that every possible tie is mirrored in the density function between the balance of 32285917, given every arrow switches  $n = 11 + 3 = 14$  between  $a4, a5 \Rightarrow 34 \sim 3 + 4 = 7$ , and  $223 \sim 2 + 2 + 3 = 7$

$C + G(x) = 7$ , when Integrated  $C = 4$ ,  $G(x) = +3$ , then  $A, B, C2 = F2$  are three wisely chosen prime values to complete the Goldbach Algorithm.

A Merten Value 101 solves the given system to be no longer chaotic but symmetric to all primes within  $[7, 7]$  that can be generalized to  $f$  if  $[A + B = 2N]$  being on an even space of  $2N \cdot \xi \geq 4$ ,  $C$  is integrated as

4 since  $\sqrt{17} = 4 + N \sum \frac{c}{p}$ , from the given integrals.

Then  $\sqrt{11}, \sqrt{13}, \sqrt{17}$ , can be approximated to a greater circle's magnitude of  $M(6, 5, 8)$ , where  $P(s, s - 1, s + 2)$ , at  $s = 6$

This  $s$  defines a great circle's arc length. So that through approximation the shortest distance of the 3 sphere is defined.

$2\tau = \lim_{k \rightarrow \infty} a_k / c_k = \lambda \neq 0$ , then  $A = 2, 3$  given  $\{T\}$  implies hypergeometric torus to sphere conformity. Only one conforming topology.

Then  $a_n$  in a fibonacci ring is fixed by the translation of  $b_n$  so

$$\sum_{k=0}^{\infty} (-1)^k a_k = a_0 - a_1 + a_2 \dots$$

Let  $d(x, y)$  be a Riemannian manifold, where the shortest curve between  $x$  and  $y$  has a value of  $M(Js) = P \rightarrow s + 2$  is a Chen  $P$  rime arc,  $s$  is its pair and  $s - 1 = 2N$ , so that  $X - Y - Z$  always changes its center node,  $Y$ , to Even  $2N$  Space of  $Y$ , given  $\text{Dim } N$  of  $\{T\}$  bends it.  $6/3 = P(A, B) = 2N$ . See Set  $\{T\}$  for  $Y - P$  rime outputs given [z] implies a closing node in a topological transformation as follows:

Between each translation there is an identical rectangular area between  $Z = n + 1 = 2(nAx + Ax)/c^2$ , then  $e(\tau) = E(k)$  6 rectangular areas found closed at  $e(Z) = E(Z)$ . Minor curves are the shortest translation between  $A + B = 2N$ .

Let  $\phi$  map to a Mobius Strip of  $\tau = 2$ , and  $\psi$  map out the Torus of  $\tau = 3$  to  $\phi^{-1}$  on a Given Sphere. If there is a singleton of 1.

$\xi = \psi < .12$  given the defined node  $J_0 = 1$ , returning to its original state  $\{0\}$ , then all vectors are counted in  $J_0(.12)$ , given  $.12 + .88801$  Dim 11, counts prime 88801 which is the density area in the stitched region. Constant 11 defines a circle that is revolved on the Torus of radius 3 by Theorem 1. Then  $\text{Dim } 11 \rightarrow C_0 = 11$  so Theorem 0 can be rechecked for  $J_0(.12)$ , as a deviation function returning .008.

Merten's law is  $a_n$  defined for this convergence:

$\mu(n) = 1$  if  $n$  is a square - free positive integer with an even number of prime factors.

$\mu(n) = -1$  if  $n$  is a square - free positive integer with an odd number of prime factors.

$\mu(n) = 0$  if  $n$  has a squared prime factor.

$\sum_{k=1}^n \mu(k)$  where  $\mu(k)$  is a mobius function that contains  $k$  as a node of a connecting mobius strip so total  $p$  - knots of  $n = 16$ , are 1388710

Given  $p = \sum_k p_k X^k, p_k \in F, \mu(n) = 3$  simply means 3 states that

$6/3 = p1 + p2 = 2N > 3, \sum 1388710 = 28$  so  $2 + 8$  returns [10].

Then  $2N = (A + B) \cap 6/3 = P(A, B) = 2(\Phi + \Psi)$  where  $k$  can be maximized for all primes given first surgery is less than prime knot max.

$\sum 1388710 = \sum K - 1$ , or the Kill value of a vector space  $28k = 29k -$

k, on the initial value k = 1.

Then  $b_n = \frac{1}{4} J_s$ , or a Computer String that connects a node p1 to a searchable value p2 of an even number in 4 Vectors.

So:

$2(\Phi + \Psi) \Rightarrow \{T\} \rightarrow [t \rightarrow \text{pow}16] \therefore (a_n \in R, \text{ where } a = a, b = B) \text{ and } n \in \chi \Rightarrow \tau, \text{ Aleph of Cardinal Time ordered sets.}$

Call ring:  $\sum (a_n)_{n \in 2} \times ((b_n)_{n \in 16} + \sum (a_n)_{n \in 2} - (b_n)_{n \in 16})$

$\therefore (a_n)_{n \in T} + (b_n)_{n \in I} = (a_n \cdot b_n)_{n \in T} \rightarrow (T + t) \neq Z$  on

$(\sum_{k=0}^n a_k b_{n-k})_{n \in \mathbb{N}}$

So  $\sum (a_n)_{n \in \mathbb{N}} \times (b_n)_{n \in \mathbb{N}} = 8 \left( \sum_{k=0}^n a_k b_n \right)_{n \in \mathbb{N}}$  so

$\aleph_0 = T, \text{ so } \left\{ \frac{dx}{dt} \right\} = R(N), \text{ scalers returns } \mu(k) = 3 \text{ states, then there}$

must be  $\frac{1}{c1} ABdb = 2 \leftrightarrow 2\xi \setminus 2$ , then  $3ab \rightarrow 3E = F$  or 3 complete second

order to first order  $\xi$  bounded on  $32285917 = p$ , contains  $59175917 = p_{c1} \cdot$

$p_{c2}$ , a semi - prime, is the product of two Chen primes 61 and 97, count

$C_0$  integrated previously as 4 in  $\int G(x)dx + 4 = \sqrt{17}$  then  $P(s, s-1, s+2)[t] = 17$  on  $s+2, s=59$  the Chen Arc so X-Y-Z maps  $Z = n+1 = 2(nAx + Ax)/c^2$

$\therefore (a_n)_{n \in \mathbb{N}} + (b_n)_{n \in \mathbb{N}} = (a_n \cdot b_n)_{n \in \mathbb{N}} \rightarrow ((a_n) + (b_n)) = Z - Z$  on

$(\sum_{k=0}^n a_k b_{n-k})_{n \in \mathbb{N}}$  on magnitude  $C = 4$  so 59, 17 separete their primes on

$2 - ((a_n) + (b_n)) = Z + 2$ , given  $\{T\} \ni [t]$  if  $p - n. ((a_n) + (b_n)) = Z = i P = 263$ , on the maximum radius of state two in  $La_n + 1$

if  $263 + 1 = La_n + n$  given  $x^{-2} + y^{-2} + .5z^{-2} = 0. (x^2 + y^2 + z^2 + e)^1 = 8(x^2 + y^2)$  where  $n = e = 1$  in  $R = 263$ , now circular

$\{T\}$  defines Hyperbolic Ring.  $\therefore [t]$  defines  $\sum (a_n)_{n \in 2} \times (b_n)_{n \in 16}$  where  $T \ni t$  in  $\mathfrak{R}$  and  $a \in R$  to  $(a, 0, 0, \dots, i)$ , vertex is contained on 2 Null spaces  $17i + 2i = 19i$ , prime returning [10] define a static subset of  $z$  being contained as [5] in  $C_2$

Let:  $\bar{x} = \frac{-2x}{x^2 + y^2 + (z-i)^2}, \bar{y} = \frac{-2y}{x^2 + y^2 + (z-i)^2},$

$\bar{z} = i + \frac{-2(z-i)}{x^2 + y^2 + (z-i)^2} = \frac{i(x^2 + y^2 + z^2 + 1)}{x^2 + y^2 + (z-i)^2}$  then  $r = \infty$ , a contour symmetric to H.

So: Given a  $C_0$  inversion  $(0,0,i) \sum (a_n)_{n \in 2} \times (b_n)_{n \in 16} \therefore (a_n) \in \{T\} \rightarrow [t]$

Defined Function G on  $r = \infty$ :

$\sum (a_n)_{n \in c-2} \times (b_n)_{n \in c-16} = 8 \left( \sum_{k=0}^n a_k b_{n-k} \right)_{n \in \mathbb{N}} \therefore (a_n)_{n \in \mathbb{N}} + (b_n)_{n \in \mathbb{N}} = \{P\}^N$

containing all  $(A+B)$  if and only if  $N = (\sum \{2n\} \in t) + p, p = 59$ , or

simply  $s \therefore a_n = R$ , only if  $\{R\} = \{\text{Rule } 1, 2, 3 \text{ of } \{T\} \rightarrow [t \rightarrow 16]\}$ .

Then  $2 \left( \sum B+1 \right) = b = \{16\}$ ,  $a = \{p1, p2\} = \{2\}$  carrying cone into  $(x^2 + y^2 + z^2 + 1)^1 = 8(x^2 + y^2)$  given  $(b/a)(x^2 + y^2) = 8(x^2 + y^2) = (3+5)(x^2 + y^2)$ , (3, 5) are a unique Goldbach pair to complete  $A+B = 2N$  for  $2N \geq 4$

, 32285917 = p, exists on  $A = 2, 3$

where  $A = 2, 3$  are mapped to

$P_{c1} \cdot P_{c2} = (p1 + 2)(p2 + 2) = p1p2 + 2(p1 + p2) + 4$ , then

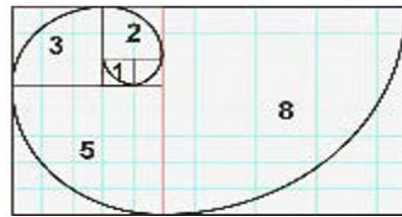
$p1 + p2 = 2N \geq 4, AB + 2(A+B) = 0$  So Chen sets divide the mapping of

$A+B = 16/2$  provided  $p+1$  is the next prime in the infinite sequence of  $A+B = B+A, 2(A+B) \approx AB$

Consider  $d \setminus H$ , being geodesic loops of X-Y-Z

as seen equal to  $n = 8, 10$ , so every algorithm can determine a flexible way to parse out the ending behavior of O, a curve, as S can always divide its radius, given a Set Space within  $S_1 \notin S_2$  retains a recursive quality of the Fibonacci Sequence.

Any even integer greater than or equal to 4 can be written as an area that can be topologically molded to an event based system, of a minimum of two prime inputs. Two values in this Spiral are bounded through Fermat Number F 4, at  $2N = 46368 < F 4 < 75025$  = Only odd, Z maps the center node Y to a prime found by Reverse Integration, and by inspection Figure 4.



**Figure 4)** Note: 1, 2, 3, 5, 8 correspond to areas sectioned by the Spiral Curve.

This Fibonacci Spiral repeats through every Fibonacci sequence such that its area is mapped to a prime curve derivative in a sphere. Two points define this derivative, the radial symmetry to a curve as converging to  $N/2 = 8$  on a minimum of two primes.

Only  $5 + 3$  are unique prime spaces summing 8.  $F 0 + F 1 = 8$  in the continuous integration provided by the Fermat equation.

A given Algorithm can prove the Goldbach conjecture given spaces are irrational or rational smooth in a reordering of prime radii and N - prime scalars within specific geometric standards.

### Soul Theorem:

If  $(M, g)$  is a complete connected Riemannian manifold with sectional curvature  $K \geq 0$ , then there exists a compact totally convex, totally geodesic submanifold S, whose normal bundle is diffeomorphic to M.

### Context of Proof:

This is not a claimed proof as it has been already thanks to Perelman. Let  $g_p$  be defined smooth on T pM, define point to point smooth space of  $\{T\}$  being a Torus Bounded on the Laurent Polynomial  $g_p[t]$ , if  $\mu(n) = T pK$ , Tangent Space that is killed by a vector space of a mobius function.  $[t]$  is contained on  $A+B = 2N$

$p \mapsto g_p(X | p, Y | p)$  so X and Y are differentiable vector fields on

point to point 3 dimensional space. Since  $\{T\} \frac{dx}{dt} = F'(f(g)) = T$  then  $R^3 = S^3$  is a prime knot system where  $K \geq 0$  moves every vector between X-Y-Z, a 3 sphere.

Then  $D(x, y) = 0$  if  $K > 0$  only if  $(M, g)$  returns a curve of a simple unit 1. So the vector space  $[t] = 1$ , by Rule of  $[T]$

It's noted  $(M, g) = 1$ , a single loop, then  $T_p \cap e = \sqrt{1 - \frac{b^2}{a^2}} E(k)$ , a complete Elliptic Integral of the first kind.

Embed e into the normal bundle  $R^N$ , where R maintains radial

symmetry to K then there is a set {T}, who kills K.

into the symmetry of  $f(\text{Br}(x)) = \text{Br}(f(x))$  so a short map  $f$  between metric spaces contains  $S$  of  $(M, g)$

A smooth embedding of a Manifold is the image, such that  $R > 0$  for any point  $x$  and radius  $r < R$  we have that image of metric  $r$ -ball.

Then a Solid Torus contains the volume of its contained sphere, or an  $r$ -ball metric that  $T_p \cap e$ .

$$\bar{x} = \frac{-2x}{x^2+y^2+(z-i)^2}, \bar{y} = \frac{-2y}{x^2+y^2+(z-i)^2}, \bar{z} = \frac{-2(z-i)}{x^2+y^2+(z-i)^2} = i + \frac{i(x^2+y^2+z^2+1)}{x^2+y^2+(z-i)^2}, \text{ then } r = \infty.$$

If  $263 + 1 = \sum a_n + n$  given

$x^{-2} + y^{-2} + .5z^{-2} = 0 \therefore (x^2 + y^2 + z^2 + e)^1 = 8(x^2 + y^2)$  where  $n = e = 1$  in  $R = 263$ , now circular.

As seen in the maximum radius of  $R$  of {T}, so smoothness defines curvature as  $\text{clp}$ , Contain  $C$  as a prime inverted subset Cut each string prime rationally so unit  $e$  reforms as first order Elliptic Torus.

Integrated between elliptic equations  $y^2 = x^3 + ax + b$ , the  $ax + b$  is a linear subset of  $2\{A\} + \{B\}$  in {T} such that  $16 \setminus 8$  returns two prime spaces  $2(\Phi + \Psi)$ .

So  $f(\text{Br}(x)) = \text{Br}(f(x))$ , if  $f(x) = 2(\Phi + \Psi)$  and is smooth then  $x \in 2$ , where  $f(a + b) = P > 3 > r$ .

$2(r, R)$  are of hyperbolic space containing a cone that carries  $8(x^2 + y^2)$  from  $(x^2 + y^2 + z^2 + e)^1$ .  $y^2 = P(x)$  where  $P$  is any polynomial of degree three in  $x$  with no repeated roots. Then there is a vector field that controls a

continuous space of 3 arbitrary primes such that  $\int_a^b f(x) = \frac{1}{2} z^{-2}$ , then

curvature follows a  $n$ -prime scalars and divides a continuous space  $(M, g)$ .

where static  $a \in A$  implies that the boundary of a convex set is always a convex curve.

The intersection of all convex sets that contain a given subset in Euclidean  $R$ , is a convex hull.

So an intersection of all convex sets containing  $X$  is meshed to  $(-3X_n, 3X_n)$ , but where the tangent space remains positive.

So,  $M = \{(x, y, z) : z = x^2 + y^2\}$ ,  $f : M \rightarrow N$  is called a diffeomorphism

if it is a bijection and its inverse  $f^{-1} : N \rightarrow M$ .

Let  $\frac{B}{A}$  modular  $D$  dimensions be a set of 3 manifold counting blocks on

$R^3 = S^3$  or a knot with 3 dimensions  $N * \sum_{n=1}^{i=6} X_n - r = 32285917$ , where

$r$  is shown to be 3, then  $\int_a^b f(x) = \frac{1}{N} z^{-2}$ , where  $N-1$  subsets of an

Elliptical Torus of  $N = 16$ ,  $r = 3$ ,

Counter  $a_n + 1$  through two ellipses closing curvature on  $D(x, y) = d(x, y)$  the Riemannian manifold that finds  $N^N \neq N$

So  $\sqrt{p} = A + \sum N \frac{C}{p}$ , if  $\sqrt{p}(M1) = M2 \leq A, n \geq 100, p$  is a simply

connected prime bounded polynomial. Where its roots define Magnitude curvature. So  $<1^1$  factors the Soul to a  $X \cdot Y \cdot Z$ , 3 sphere containing every Ring Boundary of  $S$  in geodesic spaces of its trivial set. Then a neighborhood of complex variables equates  $Z$  as a parameter of 3 space that

is also complex. So 3 primes manipulate the manifold of a bounded 3 sphere containing  $M$ , a minimal surface.

$H$  of a surface  $S$ . loop measure of curvature that comes from differential geometry of  $J_f(S) = (H \setminus \sqrt{p}) \rightarrow S_n \in S_{n+1}$

Let  $f : X \rightarrow Y$  be a map so a singleton fiber of an element commonly denoted by is defined as  $aR = b \frac{0}{6}$  of  $C_1$ ,

Shown in {T} is iterated  $\lambda = 3$  per 16 dim, but can only be measured once by two primes.  $f^{-1}(y) := \{x \in X \setminus f(x) = y\}$ , then a  $b \in X \rightarrow Y$ .

Then  $(H \setminus X), (H, y \rightarrow Y)$ , so all curvature maintains even integers given  $6 \setminus \lambda \rightarrow (\lambda 1, \lambda 2)$  and  $<1^1$  maps the Soul  $\{2IN, (u = G)\}$ .

If  $C_2 = \frac{B}{A}, \lambda \neq 0$  where  $G(\tau) = \text{Sin}(G(\tau))$  such that  $k \cap R - 1$ , if

$p = \sum_k p_k X^k, p_k \in F, k \neq 200$  when  $V$  is a vector space,  $V = G(\tau)$ .

So  $4\xi \setminus 2N$ , producing the  $R^*$  integrated structure of  $(M, g)$ , trigonometrically defining  $g$  of  $G$ , by functional containment.

By Theorem (0 - 1),  $g(t)$  is a Sine Wave function reducing the geometry to a manifold  $M$ .  $M$  is integrated by Theorem 2.

$k \in \frac{M1}{M^2}$ , confirm  $(x^2, nx^{2i}, \dots, \sum x^2, 2(n+1))$ , given integrals subtract an arbitrary  $p$  area implying that another  $p$  bound can be found.

$\sum [16 \text{ dim. Tori Rings Outputs}] + 2 \sum \{A\} + \sum \{B\} = P - 200 \in X_e$ , such that  $(-3X_n, 3X)$  so inner product is  $f(n(n-2))^{1/2} dn = N$ .

$\sum K - 1 \rightarrow K \geq 0$ , on  $R^E$ , or the Real Number Ordered Even sets on

Torus movement in Space  $H \setminus S : 2\tau = \lim_{k \rightarrow \infty} a_k / c_k = \lambda \neq 0$ :

$2(\Phi + \Psi) \Rightarrow \{T\} \rightarrow [t \rightarrow \text{pow}16] \therefore (a_n \in R, \text{ where } a = a, b = B) \text{ and } n \in N \Rightarrow \tau$ , Aleph of Cardinal Time ordered sets.

So  $(M, g)$  is a complete connected Riemannian manifold with sectional curvature  $K \geq 0$ , given  $\{(a_n, b_n) \mid G : g(t)\}$  then there

exists a compact totally convex, totally geodesic submanifold  $S$ , whose normal bundle is diffeomorphic to  $M$ .

The union of two variables in both  $a$  and  $b$  allows a cardinal state to be measured. Cantor's hypothesis states: The continuum hypothesis states that the set of real numbers has minimal possible cardinality which is greater than the cardinality of the set of integers.

In my other paper I showed that building the state sets of  $\{S\}$  is circularly equivalent to a non-singular Borel Set. Inviting to some, perhaps scary to others. By redefining the set space of any vertex leading rule, the origin of the  $\{1/H\}$  state is equivalent to the marker over all  $\{e > 1\}$  values. Potentially invariant to its domain, the cardinal value repeats itself one last time before diminishing into the empty set. That is, the principal elementary value, which is stronger than the integrated set space. So taking any finite value length of polyhedral has its counted space as cardinal. Let counted space be in a sphere, then the cylinder that replaces each manifold holds the cardinal value as shown elementary. Then by regard of the first value, each flat space would and should prove the Continuum Hypothesis as always true within the Integer Set Domain. If the real values are elongated with each solid, each value is of  $\{S\}$  in union of  $\{A\} \setminus \{B\}$  There are more positive numbers to make the Goldbach conjecture true. That is by a factor of 3 given set {T} holds and the Goldbach should then still hold. Then Cantor would be correct in his initial assumption that a cardinality of regular intervals corresponding to dividing sets. This brings the count of a positive ratio greater than two but minimally equal to the minimum inputs in a Goldbach function. Since the immutable even holds a negative prime requirement there is a Cantor

condition which states that in  $n$  possibilities, Goldbach matches cardinality which is greater for the set of real numbers and less for the set of integers. As was shown in Homogeneous Riemmanian with Applications to Primes, the  $n$ -sphere is an object that tied all knotted translations in the dimensions lower than a sphere, and platonic and symmetric. So greater than or equal to  $p=32285917$ , all values are set to fail  $n=2$ ,  $n=3$ , since  $p_1+p_2=5$ , but since the set  $\{A\}$  and set  $\{B\}$  require 5 elements each, the negative elements in set  $\{B\}$  create a boundary of an even number since odd elements of  $01+02=2N$ . Then  $O$ 's curve clocks a boundary that holds the Goldbach Conjecture as always correct outside of Cantor's condition. That is if there are any other falsifying even values for positive primes, which require a negative number in the initial set being  $p_1=p_2$ . If one followed my logic in Refuting Logic of the Goldbach Conjecture, there is only one symmetric value which means an  $n$ -sphere holds  $t_2=24n$  in 16 dimensions. So the solution exists on  $p=17$ , or in 17 dimensions being scaled 3 and divided at 2. So Cantor is always partially correct and Goldbach is never false in the containment of a Cantor Ring.

### A THEOREM ON PRIME EQUIVALENCY

Primes can be expressed as a single function and the integral can yield a form that supplies compression to the prime number system. Firstly, one must integrate the function. For any formula to exist, we prove the open case of  $\{X\}=\{R\}$  in universal prime decomposition with regards to Halley's Method, that is Sir Edmund Halley's well known algorithm. This paper is in accompaniment of the three papers written on geometric corners. What I found is a close approximation of the prime number route that closes a boundary on the second derivative between  $\langle 20, 30 \rangle = \langle n_1, n_2 \rangle$

The problem of finding the integral of  $(\sin^3 x - x)x^5$  is not so intuitive. However, its integral can still be found.

1:

$$\int (\sin^3 x - x)x^5 dx = -\frac{x^7}{7} + \frac{15}{4}(x^4 - 12x^2 + 24)\sin(x) - \frac{5}{972}(27x^4 - 36x^2 + 8)\sin(3x)$$

$$- \frac{3}{4}(x^4 - 20x^2 + 120)x \cos(x) + \frac{1}{324}(27x^4 - 60x^2 + 40)x \cos(3x) + c$$

$$\frac{d}{dx} \left( -\frac{x^7}{7} + \frac{15}{4}(x^4 - 12x^2 + 24)\sin(x) - \frac{5}{972}(27x^4 - 36x^2 + 8)\sin(3x) \right.$$

$$\left. - \frac{3}{4}(x^4 - 20x^2 + 120)x \cos(x) + \frac{1}{324}(27x^4 - 60x^2 + 40)x \cos(3x) \right)$$

$$x \cos(3x) + c = -\frac{1}{4}x^5(4x - 3\sin x + \sin(3x))$$

$$-\frac{1}{4}x^4(4x - 3\sin x + \sin(3x)) = (\sin^3 x - x)x^5, x = 0, x = 2\pi n + \pi, n \in \mathbb{Z}$$

$$\int_{\pi}^{2\pi} (\sin^3 x - x)x^5 dx = -58242.1... \text{ Numerical Root}$$

$$x \approx -33.97265439727902924509317 \times 10^{-7}$$

1a:

$p_n$  is the  $n$ th prime number

$$p_{x^5}(\sin^3 x - x) = -\frac{1}{4}p_{x^5}(4x - 3\sin x + \sin(3x)) = (-x - \frac{1}{8}i(e^{-ix} - e^{ix}))p_{x^5}$$

$$p_{x^5}(\sin^3 x - x) = (-x + (\frac{1}{\csc(x)})^3)(1 + \sum_{k=1}^{2x^5} |x^5| \sqrt{\frac{x^5}{1+\pi(k)}})$$

$$(-x + \frac{1}{\csc(x)})(1 + \sum_{k=1}^{2x^5} |x^5| \sqrt{\frac{x^5}{1+\pi(k)}})$$

$$p_{x^5}(\sin^3 x - x) = (-x + \cos^3 \frac{\pi}{2} - x)(1 + \sum_{k=1}^{2x^5} |x^5| \sqrt{\frac{x^5}{1+\pi(k)}})$$

2:

$$\int \frac{1}{4}x^5 p_{-1}(4x - 3\sin(x))dx = \frac{1}{6804} p_{-1}(972x^7 - 25515(x^4 - 12x^2 + 24)\sin(x) +$$

$$35(27x^4 - 36x^2 + 8)\sin(3x) + 5103(x^4 - 20x^2 + 120)$$

$$x \cos(x) - 21(27x^4 - 60x^2 + 40)x \cos(3x) + c$$

Taking the integral and using the Prime Number Theorem we find that the function will correlate to the same problem in (1) found here with an integration being the reverse of its derivative. We show functional equivalency as follows. This equation above is called the closing loop.

Similarly to Sir Edmund Halley's root finding method, an algorithm called Halley's method, it iteratively produces a sequence of approximations to the root. This shows the rate of convergence to the root is cubic. Here the cube is located within three terms and the  $n$ th prime is found as a cohesion of a minor root and a major root. The major root being  $k$ , and the minor root being triangulated between  $m$ ,  $i$ , and  $j$ . The part taken for  $\{X\}$  can be adjusted as directly found in the parallel axis theorem. Except for  $k$ , we can take  $n \bmod t$ . Then  $ds$  is the differential equation that binds the prime radius to function. After all, integrating is simply locating an area that has the upper bound prime and the lower bound prime as its resultant. The above equation will be called the holding function. With respect to the second derivative mix, or case zed, there is formulation into Halley's method. In this case, instead of there being a second multiplier, there is just one since the numbers 20 and 30 show up. If one divides by 6, the leading terms are  $10/3$ ,  $1/2$ , 5, and 5. The  $1/2$  component sits with  $x$  squared. So, rearranging in the prime configuration, one can see that between (1-7) in the prime recursive formulas, there is the event (C) shows as well. Then the case opens on (D) and closes on (E). In the first  $n$  group, this is since the original function leads with  $x$  being drawn out with an exponent 5. So every root follows sigma defined locations in (A-D). So the formula is wisely chosen to be integrated for a prime involvement that located 4 quadrant planes. Since there are four necessary terms expanded from the second derivative formula, the roots of  $f(x)$  satisfy  $f(x)=0$ , or to put it similarly  $f(p)=0$ . This describes the finite motion of primes with respect to the four coordinate planes. Then each quadrant follows,  $(+, +, +, \dots)$ , which goes to the prime reals as the central plane of cohesion, but the paradox does not continue infinitely as outlined by the equations in the mid section of this paper. The holding function changes  $p$  to direct  $(-, -, \dots) \rightarrow (+, +, +, 1/2, 5)$ . Then every variable has a closing root over  $x$ , such that the  $n$ th prime can be found similar to Halley's Method. Instead of only the root, it finds the  $n$ th prime unconditionally.

2b:

$\{P\} = (2, 3, 5, 7, 11, 13, \dots)$ .  $N$  is simply set to the original integral so the  $n$ th  $p$  of  $n$  term is found, assuming  $n$  continues on indefinitely. However, if  $n$  does not equal  $p$ , that would mean there are not infinitely many primes as shown by (5). It's important to be careful with how  $n$  is indented. But clearly I chose  $n = x^5$  first. So we can conclude in this proof that  $R$  does not equal  $i$ , or the radius does not circle back to the origin given 10 does not divide 3.  $P$  of  $n$  is actually looked at as  $P$  of  $x$  to the fifth. Then stitched to the function group as follows. Locally  $n = [x]$ , which retains the function as a whole beyond just  $x^5$

### Theorem 1.0

R does not equal i in the prime number field given a local group of imaginary areas. That is in any group defined by {X} sets, finitely a triad. So a closed prime group is always found with a remainder term of 1 until the prime root is found and the remainder term is 0, or just a succession of n primes in a continuous {P}=n location.

Since the analyzed function of the integral is an even spread until the first count, minus the odd number sets, there is (11, 12, 13). That is to show just one continuous line. But the prime group exists beyond the dozen lines. That is just the number 12, apart from the 12 lines (A-E) and (1-7). The barrier is not a complete whole yet until the closing loop is applied and Halley's method is adjusted for given a prime root is  $\frac{1}{4}$  differential. I proved x has no other factor than the listed set in its binomial expansion, thus the problem is solved when the group closes. This closing property is shown in Strength of the Continuum.

#### Sources:

wolfram alpha. Online Resource for Mathematics:

Homogeneous Riemannian Manifolds with applications to primes by Thomas Halley

Refuting Logic of the Goldbach conjecture by Thomas Halley

Strength of the Continuum by Thomas Halley.

### HOMOGENEOUS RIEMANNIAN MANIFOLDS WITH APPLICATIONS TO PRIMES

This paper shows methods on how to reduce the Goldbach conjecture. In contrast, the conjecture is solved by definition that this eccentric proof will explain the seminal work of R. Knott in describing the one to one correlation of Fibonacci numbers and primes. This is done in an effort to further topological modeling and works of algebraic computational methods of abstract geometry and fractal imagery. Synthetic proofs are given by elementary procedure, and thus organic means. Perhaps later, a method like this will solve the Goldbach Conjecture or refute it by  $2N^N \neq A + B$ , when  $r^+$  and  $r$  give insight into the Riemann Manifold defining (a, b) error.

The author does not claim proof but shows refutation through a stated method. By error analysis to begin:

The first part explains the aim of routing a line. The second part gives practical application and uses predictive models developed. The third part qualifies the use of immutable spaces. A statement of Poincare is made.

If the space does form two cubic-like structures: XYZ1 and XYZ2, through prime scalars, there is an empty space of fractal non zero curvature that cannot be separated from {A+B} through redirecting a sizable magnitude that is integrated. So any 1 unit space that is left an even area, includes two prime values of the minimal space that can be directly computed. Unless by non-euclidean geometry the projected point has nullity that scales towards infinity to refute. We use a bent line s, to redirect the formation of a distributed line, by primes, to a sphere.

<x> Prime routes follow this Riemman pattern analytically by rotational matrix 6.

$$R1 - a$$

$$\downarrow -b - R2$$

$$R1 - c \downarrow$$

$$d + R3 \uparrow$$

n({H})=Saddle Position of a, b, c, d.

### PART 1: LINEAR AIM OF THE GOLDBACH CONJECTURE

#### Fibonacci Table:

$F_0, F_1, F_2, F_3, F_4, \dots = 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765, 10946, 17711, 28657, 46368, 75025, 121393, 196418, 317811, \dots$

#### Context of Proof:

I use the Fibonacci Sequence and its Theorems to prove a functionally available method. The conjecture states certain prime number pairs, each prime integer greater than or equal to 2 sums all even integers greater than or equal to 4:  $A + B = 2N \geq 4$

Part 1 is self referential to Part 2 and Part 3.

#### Statement:

Every Fibonacci number bigger than 1, besides 8 and 144, has at least one prime factor that is not a factor of any earlier Fibonacci Number.

#### Statement:

Any three consecutive Fibonacci numbers are pairwise coprime.

Which means that, for every  $\gcd(F_n, F_{n+1}) = \gcd(F_n, F_{n+2}) = 1$  FS = Fibonacci Sequence, a, b = prime, gcf = greatest common factor, gpf = greatest prime factor Aim: I show how a recursive function of the Fibonacci Sequence FV will prove or disprove this prime conjecture.

#### Proof of Linearity of 1-1 correspondence

L 1: There are an infinite number of primes. Then there must be infinite possibilities of co-primes.

L 2: Then  $F_s$  contains an infinite possibility of co-primes since  $F_s$  continues to infinity by [T 1 a]

S1: By the unique-prime-factorizations theorem: Every  $2n + 1 \geq 9 \neq p = p_1 p_2$  a semiprime.

L 3: There are an infinite number of  $a+b=2n$ , when  $a=b$ , since there are infinite primes and  $2n$  terms.

L 4: For there to be infinite  $a + b = 2N \geq 4$ , a,b have to be unique or  $a \neq b$  for completion. Omit  $a=b=2$ .

C. 0: This implies  $\text{gpf}(F_n, F_{n+1}, F_{n+2}, \dots) \cup \{\forall P\}, \{\forall P\}$  being the set of all primes. Since by [T 1 a]

L 5:  $F_n \cdot F_{n+1} \cdot F_{n+2}$  implies any integer  $2n + 1 \neq p = p_1 p_2 \geq 4$  can set in factorization of semi-primes.

If  $a + b \geq 2N \geq 4$  is valid then  $F_n \cdot F_{n+1} \cdot F_{n+2} \rightarrow F_n \cdot F_{n+1} \cap b$  or

$$F_n F_{n+2} \cap a, \text{ since } \{P \geq 3\} = \{P\}$$

By  $2n + 1 = N$  it will be prime or odd.  $2N \cap \{p_1 + p_2\}$ , since

$$p_1 + F_n \cdot F_{n+1} \cap \{b\} \text{ or } p_2 + F_n \cdot F_{n+2} \cap \{a\}$$

#### Reasoning:

Functionally, this equation algebraically reduces  $a + b = \{N\}$  by [T 1 a] through linearity.

P R 1: By [T 2] Any three consecutive Fibonacci numbers are pairwise coprime. So omit  $2 + p_0 = 2n + 1$ .



L 6: Every third random N of a  $F_S$  is odd or even. When Pairing  $F_S$ : N or (1, 1, 2, 3, 5, 8, ...): (1, 2, 3, 4, 5, 6, ...)

#### Pairing pattern:

(o, o, e, o, o, e, ...) always, o = odd, e = even.  $F_6 = 8$  and  $F_{12} = 144$  so [T 2] sequences {p}

C. 1: As  $F_{12} = 144 = e$  it is followed by two odds. Therefore  $2(2n + 1) = e$

$$F(o_{13}) + F(o_{14}) = 2N = e \rightarrow 2n + 1 \neq p = p_1 p_2 \rightarrow$$

$$gcf(F_n, F_{n+1}) = gcf(F_n, F_{n+2}) = 1, o_n + o_{n+1} = 2N$$

so a,  $b \geq 3$ . Since every  $F_{n+1}$  contains all of  $1 F_n$  before it by  $F_{n+1} > F_n$

S 2:  $F_S > F_{12}$  retains  $A + B = N \geq 4$  by C. 1 if and only if  $F_{n+1} > F_n$  by [T 1 a] in the equation:

$$F_n \cdot F_{n+1} = F_1^2 + F_2^2 + F_3^2 + \dots + F_n^2, F_S \text{ creating an area by ab.}$$

$$\text{By [T 2]} F_V \text{ correlates } F_{n+2} \cdot F_n \cdot F_{n+1} = F_{n+2} \cdot (F_1^2 + F_2^2 + F_3^2 + \dots + F_n^2),$$

so  $FV \neq F_{V+1}$

$$\text{Prime factors in } F_{n+2} \cdot F_n \cdot F_{n+1} = F_{n+1} \cdot (F_1^2 + F_2^2 + F_3^2 + \dots + F_n^2),$$

unique since  $ab = \text{semiprime}$ ,  $a \neq b$

Consider  $ab$  the area retained by  $F_n \cdot F_{n+1}$  then checked by

$$F_{n+2} \cdot F_n \cdot F_{n+1} \text{ in the sequence } \Rightarrow (o, o, e, o, o, e, \dots)$$

So by [T 2] theorem and [T 1 a]:  $F_S > F_{12}$  implies  $a + b = 2N \geq 4 \leq 144$ , prove  $a + b = 2N \geq 144$  given C. 0

By unique prime factors in  $F_{n+1} > F_n$  after  $F_{12} = 144$  it is immediately followed by two odds values. By C. 1:

Reason that primes may not close  $\forall N$  imply.

$a + b \geq 2N \geq 4$ ,  $2 \times 2 \times 2 \times 2 \times 3 \times 3 = 144$ . 2, 3 are gpf of 144 for S 2 on where  $a, b \geq 3$ ,  $a \neq b$  [T 1 a] limits  $a, b \geq 3$  min. So sum a min. or max. value if  $(a + b) = \{N \mid 3 \geq 6\}$  since 9, semi prime in 144 by L 5 to  $PR \Rightarrow 144 : 8$  reduces as 18 through S 1 as  $18 \mid 2 = 9$  in 144 and 8 in 144 by  $(F_S : N) \Leftrightarrow A + B = N \mid 2 + \Delta n \geq 4$

gcf by 1 gpf  $(F_n \cdot F_{n+1} = F_{n+2})$  holds minimum value on a or b given  $a > b$  or  $b > a$   $F_{n+1} > F_n$  by [T 1 a] shown by (ab) :

By C. 1 the gpf in  $(O_n, O_{n+1})$  index given

$$(F_S : N) \Rightarrow a, b > 1 \Rightarrow a + b = \forall 2N \geq 4 \text{ by } F_S : N \Leftrightarrow F_{n+1} > F_n \text{ only}$$

if  $a + b = 2n \Leftrightarrow gpf(2o_n) < gpf(2O_{n+1})$  on  $a + b = 2(o, o, e, o, o, e, \dots)$

...o) by [T 1] so gcf  $(F_n \cdot F_{n+2}) = 1$ . So let area retain gpf

$$(F_n \cdot F_{n+1} \cdot F_{n+2}, \dots) = \{x_n, x_{n+1}, x_{n+2}, \dots\} \in \{P\} \quad \text{so}$$

$$\exists (x - 1) \in (2N_n, 2N_{n+1}) \rightarrow a + b = \forall N \geq 4 \text{ by [T 2].}$$

#### A recursive function is delayed by $\tau$

By recursive pairing  $F_S$ : N, any  $2N \geq 4$  is the sum of

$$p_1 + p_2 \neq F_{V+2} : T$$

Every even number has one prime by definition of successive integers, so by there being a set of unique primes in  $F_S$

When summing the prime factors in gpf  $(F_n, F_{n+1}, F_{n+2}, \dots) \cup \{\forall P\}$ , one can create a linear map  $F_S : N$  through areas by finding the mean of linear reduction, then the function always reduces per previous two odd elements by (AB).

To show that when stretching the logarithmic value of a Fibonacci number,  $p_1 + p_2$  are left at minimal connectives of  $\forall 2N \geq 6$ . So by aim, given this formality, a  $f(x, y)$  function will reposition the original or first prime space that is checked by a given square. Thus enabling a stronger mod for two prime sets.

## PART 2: EQUATING NUMERICAL TECHNIQUES FOR FRACTAL CALCULUS

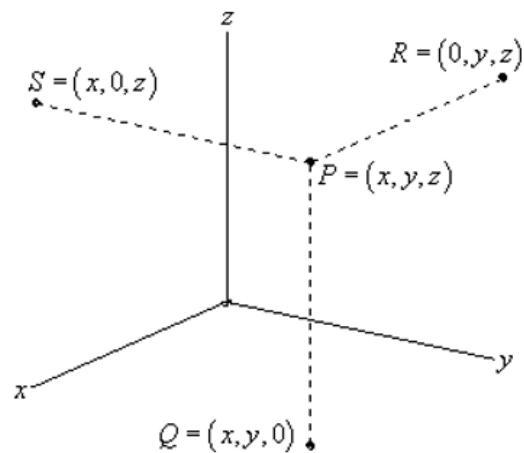


Figure 5) Equating numerical techniques for fractal calculus

#### Introduction:

Prime 32285917 finds a formulaic way to describe the Helix Look and Microbe Look among fractals. The use of the geometrizations are for useful ways to study each parameter in the Newtonian Fractal, and its Rational Map. A volumetric spiral as shown in Part 1 gives insight into FV being treated as a volume vector that maps the 0 unit as we prove prime spaces based on non-Euclidean geometry, specifically domain targeted fractals. If Q is a rational point, it shown congruent to the hyperbolic triangle of triangular measure from given integrals, one giving hyperbolic geometry of second order elliptic function that is mapped to its first order counterpart identically. Z or z axis is complex Figure 5.

#### fractal species problem:

If there are 3 consecutive  $F_S$  co-spaces, 3 prime spaces of  $XYZ = N_T$

There is square geometry, G of a point (A, B), then  $F_S = \{S\}$ , bounded by  $S_0 \mid 2N$  of D dimension 4. fractal curve area by banded color space. Color is simply dimension 4.

Color is specified [1 - 3] as there are three convenient prime colors. In metric analysis we denote period, find tolerance, and find tolerances for linear aim as shown by Part 1.

{T} = {P}, Set size is 15. I develop all connectives to prime 32285917.

Def: FSA = Fibonacci Spiral Area,  $F_S$  = Total Fibonacci Elements,  $x = 3$ .

$$\{A\} = \{a_1 = 2, a_2 = 5, a_3 = 38, a_4 = 223, a_5 = 34\}, \{B\} =$$

$$\{b_1 = 1, b_2 = 2, b_3 = 5, b_4 = 8, b_5 = 13\}$$

$$\{T\} :$$

$$x^2 + a_1 = 11$$

$$x^3 - \sum_{n=2}^{i=2} x^n + b_1 = 17$$

$$x^4 - \sum_{n=2}^{i=3} x^n + a_1 = 47$$

$$x^5 - \sum_{n=2}^{i=4} x^n + a_2 = 131$$

$$x^6 - \sum_{n=2}^{i=5} x^n + b_2 = 367$$

$$x^7 - \sum_{n=2}^{i=6} x^n + a_2 = 1103$$

$$x^8 - \sum_{n=2}^{i=7} x^n + a_3 = 3323$$

$$x^9 - \sum_{n=2}^{i=8} x^n + b_3 = 9851$$

$$x^{10} - \sum_{n=2}^{i=9} x^n + a_3 = 29567$$

$$x^{11} - \sum_{n=2}^{i=10} x^n + a_4 = 88801$$

$$x^{12} - \sum_{n=2}^{i=11} x^n + b_4 = 265717$$

$$x^{13} - \sum_{n=2}^{i=12} x^n + a_4 = 797389$$

$$x^{14} - \sum_{n=2}^{i=13} x^n + a_5 = 2391523$$

$$x^{15} - \sum_{n=2}^{i=14} x^n + b_5 = 7174471$$

$$x^{16} - \sum_{n=2}^{i=15} x^n + a_5 = 21523399$$

Note:  $\Sigma P = 32285717$ ,  $\Sigma P + 200 = 32285917 = p$ ,  $\Delta G = \text{Max} = 200$ .  $G$  is a geometric condition.

#### Definitions:

$$F_S = (0, 1, 1, 2, 3, 5, 8, 13, 21, 34, \dots) = F_S(n) \Rightarrow (0+1=1, 1+1=2, 2+1=3), \text{ or } (\dots 1, 2, 3, \dots)$$

$$F_{SA}(n_1 - n_2) = \text{The Area between}$$

$$F_S = (n_0, n_2, \dots, n_{n+1}), F(n) \neq F_S(n-n), F(F_n) = F(n) \text{ per table.}$$

$A_n$  has two states:

Between

$$a_1, a_2, s_{n=(1,2)} = 3(n-1) + 2, a_1 + a_2 = 2 + 5 = 7 = p_1$$

Between  $a_3, a_4, s_{n=(1,2)} = 185(n-1) + 38, a_3 + a_4 = 38 + 223 = 261$ , only odd and

$$a_4, a_5, s_{n=(1,2)} = 189(n-1) + 223, a_4 + a_5 = 223 + 34 = 257, = p_2$$

$$[N1] \Sigma_{a_n} = 302, \text{ where } A_n : n - \text{states are either } p \text{ or only odd.}$$

Disk edges unite p-corners A, B =  $[A_4]$ .

Valid only when equal to  $p_1 + p_2$  since  $a_4$  is counted twice I place a Fibonacci Sieve Limit on  $a_3$

Later:  $y^2 = x^3 - x^2 - 1 = 17$ , so  $y = +\sqrt{17}$  Define a disk perpendicular to the complement.

Let dimension four be set to prime color to offset the fractal matrix implied by  $p(Z) \in C[Z]$

$p(Z) \in C[Z]$  has its Z part located by  $e^{iy}$  as shown by the integrated functions that precludes Part 3.

Then  $p(Z) | 2$  and  $C[Z] | 2$ :

Newtonian fractal – Polynomial terms – .3, .2, -.2, -.7, relaxation parameter .32285917.100

$z^3 - az + b = z^3 - 1$ , this Julia parameter (-1) collects itself at terminal “b” so “a” can be differentiated for a non-vicious infinite regress. If  $P_1$ , a prime statement holds then that  $P_2$  holds, so should  $P_3$ . Assume p.

This R-parameter finds a Helix Look. As a generative map of what DNA subset defines the Microbe look. As .7 is the [7] fractal matrix. If “7” is the value rounded from the Fibonacci number scaled logarithmically, 7 dimensions partition the fractal graph in an augmented matrix.

To define a sensitivity  $\sqrt{n}$  is the degree that the relaxation parameter is found by  $f(x,y)$ . So we change  $-(n-1)$  to rotate. This defines a Rational Map of three arbitrary primes.

If the map is a Rational 4 Quadrant relation the axis corresponds  $P_1 \Rightarrow S_1$  or a family of primes existing in absolute prime space. If one says that there are an infinite number of primes by [T 1 a], an infinite number of primes that can be divided exist in the shell of a hollow sphere.

#### Center Argument

If the map contains a non-vicious cycle then  $P_2 \Rightarrow S_2$  or an ambient space. The hollow sphere  $\rightarrow P_3 \Rightarrow S_2$  thus  $S = 2N$  so a radius  $r^+ = 2$  implies  $r^- = 3$  then a square space is left on the terminal of a disk. So  $\sqrt{n}$  implies that  $S_{n+1}$  if  $\text{Arg } \sqrt{n} = +$ , then the system must rotate to connect our geometric prime 32285917, or  $f(x, y) | 6-r = \{P\}$  to show the following step of being prime or odd. C. A.

If our theory holds, every non-negative representation of the same value has its second value place through a double point operator. If  $P_2 \Rightarrow S_2$  then  $P_1 \Rightarrow S_1$  or every  $A + B \Rightarrow P_1$  if  $(A + B) \exists R^2$ , but are counted in  $R^1$  by X.

Suppose  $p=32285917$  (prime relaxation parameter) is found another way with base 2, instead of base 3. Notice  $\{A\}$  and  $\{B\}$  each have  $s=5$  elements so  $\{X_n\} = s + 1$  elements if  $\{S\} = 6 | 3$  leaving  $\Sigma p_{n=(1,2)} = 2N$ .

#### Rules:

Step1:  $X_n = 2^{2n+1}$ , Step 2:  $N_* X_n = N_* \cdot 2^{2n+1}$  and  $\{2z+2\} = (R-1)^2$ , the binomial effect of the Species.

**Step 1:**

$$X_1 = 2^{2(12)+1} + X_2 = 2^{2(9)+1} + X_3 = -6 \cdot 2^{2(8)+1} + X_4 = 5 \cdot 2^{2(6)+1} \\ + X_5 = 10 \cdot 2^{2(3)+1} + X_6 = -2^{2(2)+1} - r = 32285917 \text{ when } r = 3, \text{ so } \Sigma X_n \text{ is}$$

numerically apart from a prime by 3. Then  $N_*$  defines  $F_s$  by  $N$  scalars.

$$n = (12, 9, 8, 6, 3, 2, [0]) \text{ Decompose } 31231 = p \text{ as} \\ L = (-3, -1, -2, -3, -1, [-2]) \cdot 2^{2n+1} = z \cdot \text{Mandelbrot}^1$$

**Step 2:**

$n_1 + L_1 = n_2 \rightarrow n_n + L_n = n_{n+1}$  where iteration  $1 \leq i \leq 5$ , Then

$$N_* \sum_{n=1}^{i=6} X_n - r = 32285917, N_* > 1 \text{ so } \sum |N_n| = 21 \text{ since } 6 + 5 + 10 \text{ are} \\ \text{equal to 21 containing a Fibonacci area } F_{SA}(0-3) = 15 = 5 + 10. \\ F_S: (0, 1, 1, 2, 3, 5, 8, 13, 21, 34, \dots) \text{ if } F_S \text{ locate the scalar pair} \\ (-3X_n, 3X_n), \text{ being set } \{B\} \text{ by negatives.}$$

Addition of  $F_S: (0 + 1 = 1, 1 + 1 = 2, 1 + 2 = 3, \dots)$ , We impose  $2N$  as a local of (o,o,e), a set of 3 numeral vectors. Notice that a set  $|\{B\}|$  of  $\{T\}$  then  $\{T\}$  If Goldbach isn't true,  $X \in N_T$  negates its tautology.

Denote  $F_n, F_{n+1} = F_1^2 + F_2^2 + F_3^2 + \dots + F_n^2$ , to be the derivative in application  $\{0\} \rightarrow N_T$

Example: Within  $F_n, F_{n+1}, 1^2 + 1^2 + 2^2 + (\pm 3)^2 + 5^2 + 8^2 = 104$  by  $F_{SA}$ .  
Solve: length by rectangular radii,  $13 \cdot 8 = 104$ . Then our corner diagonal implies  $n + 1 = r$ , radii  $[2]$ .  
Two unknown points

$$f | F_S \mapsto \{B\} = S_1 = (-1, -2, 5, -8, 13), \{A\} = S_2 = (2, r, 5, y^2 + 4, 34)$$

This explains  $N_*$  on  $N > 1$ , then  $\Sigma N = 21 = y^2 + 4$ , so

$$P(X_1, \dots, X_6) \rightarrow \{2n+1\} = \{5 \cdot 5, 19, 17, 13, 7, 5\}$$

So  $\{T\} \frac{dx}{dt} = 0$  at  $x = 0$  if  $(|S_1| + |S_2|) \in F_s$  given  $P(X_1, \dots, X_6)$  are bounded on area 25 and length 5 only or they are bounded by  $(p_1 p_2, \dots, p_n)$  if  $p_1 p_2$  is  $d(x, y)$  spaced from  $P_n$  so  $XY Z = p_1 + p_2 = 2B_n \geq 4 + A_n$ .

To solve  $P(X_1, \dots, X_6) \rightarrow N_* \sum_{n=1}^{i=6} X_n - r$ , by  $F$  Sequence.  $R > 1 - G > 0$  if  $G$  is  $-$  by  $i2$  hyperbolic geometry.

**Example:**

There are 4 p between  $F_0 \dots F_9$  or  $F_S(0-34)$  of the Fibonacci Sequence. Then the triangle holds Q hyperbolically. of the Fibonacci Sequence. Then triangles hold Q by their edges hyperbolically. That of which continues to infinity because we mark each point of the triangle vertex with the function derivative of  $F_V$  that is  $\frac{1}{N}$ .

$$\text{Then if } p_1 p_2 | p_n \rightarrow p_n p_{n+1} = F_n F_{n+1} \rightarrow \frac{F_n}{F_{n+1}} = \{Q\}$$

Then it must contain all  $2N$ . Let's question  $2N$  on  $\{S\}$  where  $s = 5$  given  $2\{A\}$

To define  $F_S \rightarrow s + 1$  possibilities  $(s + 1) | P_n = (XYZ)$  if  $P_n = \text{Mod } 3$

The target prime space.

Iso-equation Using elements derived by

$$z = 2^n, \{3n\} = 0, 1, 3 \rightarrow 1, 2, 8 \in F_S, P_n = 3 \text{ isometrically.}$$

**Lemma 0**

Let  $F_n \cdot F_{n+1} = AB$ , if  $XY Z = 2N$ ,  $(A, B = p)$  and  $F_n \cdot F_{n+1} = N$ ,  $A$  as prime length,  $B$  as prime width. Then there is asymmetry.

Partition Rule (P.R.)  $2N \text{ Area} \rightarrow 5F | \{B\} |$  finds  $3F | \{A\} |$  elements.

So  $a_1 + a_2 + a_5 + \Sigma |b_n| = 41 + 29 = p_1 + p_2 = 70 = 2 \times 5 \times 7, 331 = p$ , where 8  $F_S$  elements included  $\Sigma |\{B\}| + \Sigma |\{A\}| = 331$  Then the square is prime free.

**Example:**

$$\text{Let } 331 + 46 = F_{14} = 377 = 13 \times 29 \text{ or } F_7 \times 29, \text{ as noted } F_{14} = F_{2(7)} \text{ in } R.$$

Knott's Sieve  $46 = 40 + 6$  or  $F_{SA}(0-5) + 6$ , double mid value  $F_S$  on

$2N$  given:  $46 = a_1 + 2a_2 + a_5$  Lem 0

[T 1 b] Every Fibonacci number bigger than 1 [except  $F(6) = 8$  and  $F(12) = 144$ ] has at least one prime factor that is not a factor of any previous Fibonacci number.

By C. 1 and C. 2:  $\{S\}$  set size corresponds to  $15 | 3 = \{s\}$ . Then denote a Fibonacci number the sum of any  $s$  value since 5 is not a factor in  $F(6)$  and  $F(12)[1]$ .

$$\Sigma P + 200 + 6 = R = p = 32285923, \Sigma \{A\} + \Sigma \{B\} = 309 \in \{P\}, \text{ so}$$

$$2\Sigma \{A\} + \Sigma \{B\} = 611 \in \{T\}$$

Then 377 is the maximum  $F_S$  to contain  $XY Z = 2N \geq 4$  on all reflected areas. Since  $377 > \Sigma a_n$  by 75. We later show in a  $f(x, y)$  function 75 is a standard value to offset  $G$  as 275. Then 377 is the maximum  $F_S$

$$\Sigma \{A\} + \Sigma \{B\} = 309 | 3103, 611 | 1347, (3, 13) \in F_S, \text{ so}$$

$$(3, 13) \cap (\{P\} \cup \{T\}), \text{ given } 75 = 15 \cdot 5$$

**Example:**

By  $200 + 75 = 275 = N = |V|$  then the functional needs a perpendicular vector.

So an inequality  $f(x, y)$  uses an iterative connective

$$n_n + L_n = n_{n+1} \quad 1 \leq s \leq 5$$

So,  $n_n + L_n = n_{n+1}$  where  $1 \leq s \leq 5$ , iso-equation denoted  $\max n = 3$ ,  $2^3 = 8$  confirming [T 1]

Note:  $(0, 1, 1, 2, 3) \rightarrow 0^2 + 1^2 + 1^2 + 2^2 + 3^2 = 15$  finds area and this shows  $15 | n = s$

$$\text{If } F_{14} = F_{2(7)} \text{ and } F_{2(6)} = F_{12}, (13^1 \times 29) \Rightarrow n - p \text{ factor in } [7, 14],$$

$$(2^n) \Rightarrow n - p \text{ factor in } [6, 12].$$

Within Step 1,  $n = 12 | 2 \rightarrow 6$ , so [T 1] holds for  $p$  except  $F(n = 6) = 8$  and  $F(2n = 12) = 144$  in  $R^3$

If  $(a, b) \in F_s$  where a and b are prime:  $b_n + 2 = 15$ . or an only odd

area retained by  $2F_{SA} \cap (XYZ)$  by [1-3].

Given a, b can  $(a, b) \in F_s$  then  $(S-1) \mid 2$ , or two prime values that divide the set space.

Since  $p = 31231$  decomposed provides  $b_n$  13 is width, two is length within the digit span.

Bind iso-equation on  $n = 3$ , as

$$8 \cdot 2 - r = 13 : (\{A\} + \{B\}) \rightarrow (X_n = 2r = 6) \mid n = XYZ = 2N \geq 4$$

[T 2 b] Any three consecutive Fibonacci numbers are pairwise coprime. This means that, for every n,

$$\gcd(F_n, F_{n+1}) = \gcd(F_n, F_{n+2}) = 1, \text{ gcd is the greatest common divisor.}$$

### Example:

$F(38) = 39088169 > 32285917$  by  $6802252 = 2n$ ,  $F(34) < 2n < F(35)$ , both odd so relatively coprime.

By the unique-prime-factorization theorem. Every  $2n + 1 \neq p = p_1 p_2$ , so  $F(34, 35, 36)$  are co-triple prime.

Then they complement  $F(36, 37, 38) : F(n) : F(36) \in 2$  (36 even, 37 odd) then co prime spaces.

Therefore  $F(a_3 = 38)$  correlates [T 1] Sieve Limit  $F(a_3) \rightarrow 2n \mid$  from [T].

Then  $F_n \cdot F_{n+1} = AB$  if  $XYZ = 2N \geq 8 \mid 2 \cap F_s, F_s \dots \infty$  by

$$[T2] : 47 = F_{SA}(1-5) + 7 \rightarrow \text{Switch}$$

A mid integer  $b_n$ , which is parsed or seperated into  $R > 1$  summing  $2N \geq 4$  always at a prime mean tautology

$$3p_1 p_2 \mid 3p_n \rightarrow p_n p_{n+1} = F_n F_{n+1} \mid AB \geq 1, \text{ so } G > 1 \text{ and } 2n \text{ is } d(x, y) \mid > \mid$$

Method  $b_{n+1} + a_n + b_n = 2N$  if every

$$2_{n+1} \neq p = p_1 p_2, ab \rightarrow b_{n+1} = 0 : \lim_{p \rightarrow \infty} 1/P = 0.$$

Note: A set of integrals is given for this method to describe three consecutive spaces for  $F(p)$ .

Goal: set integration limits and parameters to approximate by only  $p : \sqrt{1}, \sqrt{13}, \sqrt{17}$ .

$$p_1 + p_2 = 2N \text{ if } R^3 = S^3 \text{ if } (\sqrt{n}) \text{ of } R^4 \text{ contains one negative in } \sqrt{17} \text{ by}$$

$$X - Y - Z \text{ in } R^2$$

The original data set:

$$X \cdot \sqrt{11} \approx 3 + \frac{101}{317} - \frac{1}{503}, \text{ correct to 6 decimals}$$

$$Y \cdot \sqrt{13} \approx 3 + \frac{157}{233} - \frac{29}{419} + \frac{1}{1051}, \text{ correct to 5 decimals}$$

$$Z \cdot \sqrt{17} \approx 4 + \frac{53}{433} - \frac{3}{4177} + \frac{1}{69127}, \text{ correct to 8 decimals}$$

$$X - Y - Z + \int |\Delta R| dx dy dz + \int \int \Delta n^2 dn - Z_0 = [z]$$

Magnitude correct is 6,5,8 respectively. We hold 13 as the lowest value to give a big enough gap for  $17-11=6$  because it is important in our understanding that Step 2 lowers our parameter by 6 values minus the radius of our stemming set {T}. If it's implied that R is

collinear with S, or the midpoint  $\{Y-r\} = 0$ , as breather.

The set contains  $233=F(13)$ , denote ratios as fractal tolerances on a Rational Map, given + curvature when scaled in an Euler Argument. 3,3,4 are integers that exist in  $\{\sqrt{N}\}$  or  $\{\sqrt{P}\}$ .

$s(6, 5, 8) - M_n \text{ places} \rightarrow 0 < 13 - 11 < 6, R^2$  is collected in the bounds by the Julia set (1)  $f(z) = z + c$  [2].

$Z_{n+1} = f(n) = Z_n^2 + c$ , what we've shown is the root of z given the transpose of (1) and (2). That is in three consecutive primes to show symmetry bounded  $\frac{1}{P}$ . Locate A,B,C,D as corner roots implying  $\sqrt{17}$ , its integer

$N = D1$ , or the first dimension unique within the system so as to reflect symmetry uncut from the values  $f(n_1)$  and  $f(n_2)$  implying the z axis has no gap on the reals. So each corner is a point before  $\frac{1}{P}$  of

the function value  $4R \mid [2P]$ . Leave  $F(p)$  space  $p - XYZ = 2N \geq 4$

Every prime value is one less than its symmetric component  $p + 1 \leq$

$2N$ , so [1] and  $(p_1 p_2, \dots p_n)$  if  $p_1 p_2 - \{R\} > p_1 p_2$

Let  $e^{2x} = C$ , or  $e^{2p} = C[X]$  We draw an even fractal route.

$$\int e^x \sqrt{1 - e^{2x}} dx = \int e^x \sqrt{(1 - e^x)(1 + e^x)} dx, \text{ where}$$

$$u = 1 + e^x, du = e^x dx, \text{ integrate by } e^x = e^p > p_1 p_2$$

$$\int \sqrt{u(2-u)} du = 1/2(u-1)\sqrt{2u-u^2} + 1/2(\sin^{-1}(u-1)) + C,$$

$$1/2(u-1)\sqrt{2u-u^2} + 1/2(\sin^{-1}(u-1)).$$

$$\int -\sqrt{(u-1)^2 + 1} dx = \int \sqrt{-\sin^2 \theta + 1} \cos \theta d\theta = \int \sqrt{\cos^2 \theta} \cos \theta d\theta = \int \cos^2 \theta d\theta = \int (.5 \cos 2\theta + .5) d\theta$$

so

$$y = \int e^x \sqrt{1 - e^{2x}} dx = .5(e^x) \sqrt{2(e^x + 1) - (e^x + 1)^2} + .5(\sin^{-1}(e^x)),$$

$$\text{locating } \left\{ \frac{dx}{dt} \right\} = 0 \text{ on } x = 0.$$

$$\int \sqrt{(x^2 - 1)/(x^2 - 2)} dx = E(\sin^{-1}(x/\sqrt{2}) \mid 2),$$

$$.5(e^x) \sqrt{2(e^x + 1) - (e^x + 1)^2} + .5 \int_0^{\sqrt{2}} \sqrt{(x^2 - 1)/(x^2 - 2)} dx \approx$$

$$.5(e^x) \sqrt{2(e^x + 1) - (e^x + 1)^2} + .5 \int_0^{\sqrt{2}} \sqrt{(x^2 - 1)/(x^2 - 2)} dx \approx$$

$$\int \sqrt{(y^2 + 1)/(y^2 + 2)} dy : \text{ denote this integral as the area}$$

under  $y^2 = P$ , so  $2R \mid 2 = XY Z$

$$\int (\sec^3 x / \sqrt{y^2 + 1 + 1}) dx = \int (\sec^2 x (\sqrt{\tan^2 x + 1} = \sec^2 x / \sqrt{y^2 + 1 + 1})) dx$$

where  $\tan x = y$ ,  $dy = \sec^2 x dx$ ,  $C = 0$ .

$$\int (\sec^3 x / \sqrt{y^2 + 1 + 1}) \frac{\sin x}{\sin x} dx = \sec^2 x,$$

$$du = 2\sec^3 x \sin x dx \sqrt{u} = \sec x, \sin x = \sqrt{(u-1)/u}.$$

$$\int (\sec^3 x / \sqrt{\tan^2 x + 1 + 1}) \frac{\sin x}{\sin x} dx = \int \sec^3 x / \sqrt{\sec^2 x + 1} \frac{\sin x}{\sin x} dx$$

$$\text{so } \int 0.5 \frac{\sin x}{\sqrt{u+1}} du = 0.5 \int \frac{\sqrt{u-1}}{\sqrt{u+1}} du.$$

$$.5 \int \sqrt{u-1} / u du, u = \sin w, du = \cos(w) dw \text{ then } \int \frac{i}{2} \cos^2 w / \sqrt{\sin w dw},$$

when w = x...

$$\int F(x) dx = (2/3) \frac{i}{2} \left( \sin x^{1/2} \cos x - 2F(1/4)((\pi-2x)/2) \right) \\ = \frac{i}{3} (\sec(\tan^{-1} y) (\sqrt{1-u^2}) - 2F(1/4(\pi-2\sin^{-1} G) | 2))$$

$$u = G = \sec^2(\tan^{-1} y),$$

$$\frac{i}{3} (\sqrt{G} \sqrt{1-(G)^2} - 2F(1/4(\pi-2\sin^{-1} G) | 2)) + C = \int F(y) dy =$$

$$\int \sqrt{(y^2+1)/(y^2+2)} dy = iE(\text{isinh}^{-1}(y/\sqrt{2}) | 2) + C, \text{ denoted as hyperbolic}$$

$$\text{function triangulation so } iE(\text{isinh}^{-1}(y/\sqrt{2}) | 2) + C = \frac{i}{3} (G^{1/2} \sqrt{1-G^2} - 2F(1/4(\pi-2\sin^{-1} G) | 2)) + C,$$

then

$$3E(\text{isinh}^{-1}(y/\sqrt{2}) | 2) = \sqrt{G} \sqrt{1-(G)^2} - 2F(1/4(\pi-2\sin^{-1} G) | 2), \text{ if } G = e^x \\ \text{if } x \in T$$

$$3E(y) = F(G), \xi 2 = \xi 1 \rightarrow \text{isinh}^{-1}(y/\sqrt{2}), y = \sqrt{2}, \sqrt{2} = x, A, B \text{ rest in } \sqrt{n}, \\ \text{as } n = 2G \text{ represents the condition values to connect exponentially if } \sec^2(\tan^{-1}(y)). \text{ If } \cos^2 x + \sin^2 x = 1, \sec^2 x = 1 + \tan^2 x \text{ so } \\ \sec^2(\tan^{-1} y) = 1 + \tan^2(\tan^{-1} y)$$

So  $G = 1 + \tan^2(\theta)$ , by complex variables we eliminate x,y so  $z = x +$

$$iy, \text{ then hold } G \text{ as symmetric to } \frac{1}{p_1} \leq \theta \leq \frac{1}{p_2}$$

At least once, where radians connect to prime symmetry. Mean exists on  $G > 1$  for a greater dimension lowering the room for asymmetry since a higher prime value pulls a higher magnitude.

**Statement 3:**

$$\text{Disk } D \frac{\varphi}{4} = \tan^{-1} \left( \frac{\sqrt{2}}{\sqrt{2}} \right) \text{ exists in } R^2, \text{ contains so } -\pi/4 \leq \theta \leq \pi/4.$$

That is, by the given integrals of the transcendental integral including inclusion of Elliptical Equations. There are 4 prime  $\xi n$  elliptic equations on  $R^4 = S^4$  of  $n=4$ . So the solution exists in 16 dimensions given  $R=R$ , of  $n=4$ , so 2 can be set on the root basis of two elementary spaces. Then Disk D rotates + under R.

Given bounded 1-1 continuity:  $Y^2 = |-4|$  defines the

$$D(x,y) = 0(\{\forall P\} \cap \exists p_{2N} \text{ C. } 3$$

Mathematica Algorithm Development:

$$F(\varphi, k) = F(\varphi | k) = F(\sin \varphi; k) = \int d\theta / \sqrt{1-k^2 \sin^2 \theta}, \text{ F is an Incomplete Elliptic Integral of the first kind.}$$

$$E(\varphi, k) = F(\varphi | k) = E(\sin \varphi; k) = \int d\theta \sqrt{1-k^2 \sin^2 \theta}, \text{ E is an Incomplete}$$

Elliptic Integral of the second kind.

$$\int d\theta \sqrt{1-k^2 \sin^2 \theta} = \int d\theta / \sqrt{1-k^2 \sin^2 \theta}, \text{ implies } \int d\theta (1-k^2 \sin^2 \theta) = \theta$$

$$\theta = M_0 / M_1$$

Every Manifold must match its radian manifold, if every linear node sits on the line of intersection.

Then  $k^2 = m \rightarrow 2\pi n + C = M$ , on  $(M_1, M_2, M_3) = (s+1, s, s+2)$  so M

Magnitude Correct (s = {S})

Using Wolfram's Method in Mathematica the given Integrals are complete: [10].

EllipticE, an Algorithm in Wolfram Language Documentation:

EllipticE [m] gives the complete elliptic integral E(m)

EllipticE [ϕ, m] gives the complete elliptic integral of the second kind E(ϕ | m).

C.4 - So Disk  $E(m) = E(\varphi | m) \rightarrow (11, 13, 17) \in \{T\}$ . Then p(x, y) under  $0 < 2 < 6 \rightarrow 0 < 1 < 3$

A disk is closed if it contains the circle that constitutes its boundary. A disk is open if it does not. Hypersphere is the set of points at a constant d(x,y) from a given centre, manifold of codimension one. Then  $0 < 2 < 2r$ . A disk is closed if it contains the circle that constitutes its boundary. A disk is open if it does not. Hypersphere is the set of points at a constant of  $\frac{dx}{dt}(x,y)$ .

From a given centre, manifold of codimension one. Then denote where  $r=3$  defines its circle. So the Hypersphere bounds a G value unconditionally.

Beyond  $p_n \geq 2, \sqrt{17} = (4) + \dots$ , We connect C. 4 to a mean of 4, if d(x,y) continues operating under  $y = \{T\}$

$$1/4(\pi 2^n \sin^{-1} G) | 2) \text{ by}$$

$$\int \sqrt{(y^2+1)/(y^2+2)} dy | \Delta G = 1 : 1/4(\pi 2^1 \left( \frac{\pi}{2} \right) | 2) = 0, \text{ so } G > 1.$$

Then  $(XYZ) \in S$  notation of  $F_{SA} = S_N$  areas : we conclude Y insufficient.

Not if

$$\sqrt{N_T=16} = |-4| \text{ by } |-4| \cdot |-2| + d(x,y) \cdot |-8| \in B_4 \Rightarrow [A4]$$

$$\Delta G < 200 + 23 = a_4 322859[23], \text{ so } 23 - 8 = 15, \text{ U area}$$

$$15 | 3 = s. 23 = r_1 + r_2 \cdot C. 5 - 1 < n < 4$$

**Implication:**

$$n + s + r \subseteq R^S$$

$$r = 3 = x, R^3 = /R^5.$$

This symmetrically has shown a manifold decreases at a value of an operator that moves the partial sum as follows.  $\{T\} \Rightarrow (p_1 + p_2) | 2N$

$$\text{if } y^2 = x^3 - x^2 - 1 = 17 \text{ and } y^2 = x^2 + 2 = 11 \text{ Allow C. 5 on R.}$$

**Axiom 1**

Hypersphere: 13 closes {T} on degree 16 by bn, V ector V of N polynomials of dimension n+1. Then every coprime FS has a dimension of set n of {T} by 15. Therefore F(n+1) replaces then every coprime of  $F_{SA}$ .  $F_S$  has a dimension of set size n of {T} by 15. Therefore F(n+1) replaces the set by its dimension count. {T} by 15.

Therefore F(n+1) replaces  $XYZ = 2N \geq \sqrt{16}e^p > p_1 p_2$  by the decay of

p, or soundly we denote how  $s \leftarrow p$ , if  $e^p \neq \{SM\}$ .  $\{S\}$  is the set magnitude beyond error.

Limit

$$F(a_3) < F(a_4), F(a_4) = 40(13) \times 1083772251534189 \times 1643446100464101388961560708(13)^2$$

Ex : Denote XYZ as a preliminary fractal equation equated to  $\sqrt{n}$  degree sensitivity.

Since 13 is unique in the two prime factors

$$40(13) \times 108377 \times \dots (13), (a, b) \in F_s \text{ so } b_n + 2 = 15 = \text{odd}$$

$b_5 \in \{T\} = 13.4$  primes in [2] separate in 132, sufficient to reflect areas of a disk  $D^2$  Ex Ax. 1

Producing XYZ = 2n  $\geq$  4 given  $\Sigma FS = N$ . So the U area  $F_{SA}(0-3)$

demonstrate s in C.L. by Ex Ax. 1

F(13) in the root basis of  $\sqrt{11} - \sqrt{13} - \sqrt{17}$  connects F(N) as its image of even XYZ spaces.

$0 < 2 < 6 \leftrightarrow V \mid V$  - Space pulling  $X - Y - Z$  prime values at a fixed point, structurally by Switch 1

**Lemma 1**

Then  $Y^2 = -4$  of  $D(x, y) = 0(\{VP\} \cap \exists p_{2N})$  we see a factor we can directly compute by our sieve value.

$$\ln(F(a_4)) \approx 106.5 > \frac{1}{2} \Delta GMax. \rightarrow 5(e^x) \sqrt{2(e^x+1)-(e^x+1)^2} \Big|_{x=0}^{x=2} \\ +.5 \int_0^{\sqrt{2}} \sqrt{(x^2-1)/(x^2-2)} dx \approx G_A \setminus 2n \Rightarrow e^{XYZ}$$

$$\text{Then } 0 < 2 < 6.51(R, z = i, \theta = \frac{\pi}{2} \mid 2), E(m) = E(\varphi \mid m)$$

Let us stabilize  $E : \varphi \leq m$ . This should prove E fits into  $R_0$  given  $F_{SA} = 8 \mid 2$ , and area 8 is  $\{T\}$  so  $16 \mid 2 = 8$

Completes  $((s+1) \mid 2n, s, (s+3) \mid 2n)$ , rounding  $0 < 2 < 7$  leaves a  $\mid >$  enough gap for  $s = 7$

Demonstrated F(n = p = 7) being 2N of  $F_n$  apart F(n = 14), to a Fractal Lem 1\*

**Axiom 2**

F(n = 6) being 2N of  $F_n$  apart F(n = 12) shown in consistency to [T] 1) so this [S] implies two p space as sorted in C.L. and  $F_n \cdot F_{n+1} = N$  th

image of edges bound on  $P_{2N}$  space. Existence demonstrated by

$X - Y - Z \rightarrow N_T = \{T\} \frac{dt}{dt} = 0$  on  $x = 0$ . Limit reaches 0, then G is fractal geometry, geometrically consistent to  $A_n$ , with  $B_n$  being complements to its root or the square  $d(x, y)$  prime Switch 1

space  $\{S\}$ . Then  $e^{XYZ} = e^{2N \geq 4} = \{S+1\} = V_S, S_2 = (2, 3, 5, \dots)$  includes 3 consecutive base primes. Ax. 2.

So: when there are 3 consecutive  $F_S$  co - spaces, as described in [2] by

P.R. so  $3 + 5 = 8 \in \{B\} \mid 3$  consecutive prime  $N_T$  are images with square geometry G of a point (A, B), then  $F_S = \{S\}$ , bounded by its  $sn \mid 2N$  of D fractal curve area by retained area through the  $F_{SA} \subseteq \Sigma F_S$

. Ex Ax. 2

**Example in following the two Axioms.**

2D=32, or roughly a relaxation parameter that finds a non-zero metric to study the Microbe Look. Let D be a dimensional area of accuracy, as if viewed from a microscope, where light reflections define, analyze, and obtain periods of accuracy of XYZ=2N as being the dot product of an even space, that gives magnitude by cubic dimensions, or specifications as to why G behaves the way it does. To define 3 potential geometric scenarios as follows. G is linearly on 2N if R maps X-Y-Z. 2D = 32. or roughly a relaxation parameter that defines a metric view of Microbe as if viewed from a microscope.

Polynomial terms define G as a potential single band color metric. Now determine each to  $G=XYZ/R$ . Polynomial terms define G as a potential single band color metric of  $C_0 = R_0 - C_{old}$

Call constant C, color of integration if  $(R_0 + C_{NEW})^4$  DNE by the binomial effect of the species

**Axiom 3**

Banded Colors depend on fractal kind and parameter. Given 16 dimensions polynomial {T} dimensions.

$\sqrt{17} - \sqrt{19.2}$  Manifold operators are consistent to  $\sqrt{5R}$ , where r is of radius the even bound. Then we have a consistent manifold M. Then decimal bound above is set to 100 because values are switched to the 100 Area D curve.

To  $F_V \sqrt{(x^2+1)/(x^2+2)}$  so by  $Q x^2 = 18$  or  $x = \pm 3\sqrt{2}$  by vector similarity.

The scaling operator: see part 1

$$144: 8 = x^2 \text{ so } y \text{ is } \{VP\}^4 \text{ Ax. 3.}$$

**Expanding on 3 Axioms: Microbe look by rational map**

The values in the rational relation map put a center Julia Constant on 13 as related to 11, p, 17, p = 13

Exp. 2 relates to the second degree polynomial of 11 and -3 to 17. So the mid decimal scale is .13

$D^2$  area is of dimension 2. While  $13^2$  is its prime complement. Decimal bound is .00 in  $\{T\} = \{S\}$

This paper's intention is to find mathematical parameters by algebraic geometry to better understand structures that can be used to understand biological geometry. The integrals were to be used to study  $\Delta x - \Sigma \Delta n^R$  where  $n \in R$ . Thus Euler-Elliptical functions that can determine exponentially what Newtonian Fractal limits are. We

define "a" and "b" as reverse values so  $f(a, b) = \int_a^b (\Delta x - \Sigma \Delta n^R)$ . 3 nodes in the Riemmanian manifold develop what  $\sqrt{n1} - \sqrt{n2} - \sqrt{3s}$  is.

## MAIN ASSUMPTION

We continue that when approaching  $x^- \rightarrow \ln(a)$  or  $x^+ \rightarrow \ln(b)$  there is a portion of the prime curve that is no longer hyperbolic or sinusoidal by a hole in the data set, which transformable could scale an unknown 2N.

**What we've shown so far:**

If there are 3 consecutive  $F_S$  co - spaces, 3 prime spaces of XYZ = NT, there is square geometry G of a point (A, B), then  $F_S = \{S\}$ , bounded by  $sn \mid 2N$  of D fractal curve area by banded color space.

$$R1 - a \Updownarrow$$

$$b - R2$$

Percolation Fractal: The probability that an arbitrary site within a circle of radius  $r$  smaller than  $\xi$  belongs to the infinite cluster, is the ratio between the number of sites on the infinite cluster and the total number of sites denoted  $R1 - (a+b) = \xi$  by  $r^-$  and  $r^+ \neq R2$ .

Not if:

$\{S\} = R - R - R = X - Y - Z$ , homogeneous elements of their principal cause.

So there must be separate manifolds.

**Explanation:**

Each color band has a 16 dimensional route. Then a co-space of a band has a square geometry G. That is, given

Each color band has a 16 dimensional route. Then a co - space of a band has a square geometry G.

XYZ =  $N_T$  has 3 potential unbounded geometries with 1 rotation. So XYZ = 2R Area.

Then there is an infinite radius that does not circle back to (A, B) so FS = {S} = {T}, then {S} is bounded By  $S_n | 2N$  of D of fractal curve area a  $D_2 \rightarrow 2$  or simply  $D1 \cup D2$ . 2 species converge on a single geometry D of G or  $G(D) = XYZ$  with a co-space of F(2). Then the calculus functions describing variables x,y to D as identity scaler of  $F(2) = (1,1)$ . To now prove its functional opposite by denoting the scaling operator of n+1 degree higher.

### PART 3: REDUCTION ON THE FUNCTION OF TWO VARIABLES LIMIT LINE

I explore a simple Multivariable Calculus function and problem to find relative minimum and maximum.

Let p1 and p2 simply define a metric space that is referential to its principal value. Prove that f(x, y) there is no matrix  $[n]^n$  an integer N if  $f(x, y) = x^b - axy + ay^a$  given  $a = b + 1$  so  $D(p1, p2) = N/2$  if p1 and p2  $\neq N1$

**Suppose b is always prime, but not on degree n+1.**

Let  $f(x, y) = x^4 - 5xy + 5y^5$ ,  $\frac{\delta f}{\delta x} = 4x^3 - 5y$ ,  $\frac{\delta f}{\delta y} = -5x + 25y^4$ , where  $a = 5$ , wisely chosen Lem 0

$$\frac{\delta f}{\delta x} = 4x^3 - 5y \Rightarrow \frac{\delta^2 f}{\delta x^2} = 12x^2, \frac{\delta f}{\delta y} = -5x + 25y^4 \Rightarrow \frac{\delta^2 f}{\delta y^2} = 100y^3, \frac{\delta^2 f}{\delta x \delta y} = -5$$

$$4x^3 - 5y = 0, -5x + 25y^4 = 0, x = 5y^4, 4(5y^4)^3 - 5y = 0 \text{ so}$$

$$500y^{12} - 5y = 0, y(100y^{11} - 1) = 0$$

$$y1 = 0, y2 = \frac{1}{100^{1/11}}, x1 = 5(0)^4 = 0, x2 = 5(\frac{1}{100^{1/11}})^4$$

$$= \frac{5}{100^{4/11}} (0,0) = (x1, y1), (\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}}) = (x2, y2)$$

$$\frac{\delta^2 f}{\delta x^2} = 12x^2 \Rightarrow 12(x1)^2 = 0, 12(x2)^2 = \frac{300}{100^{8/11}}$$

$$\frac{\delta^2 f}{\delta y^2} = 100y^3 \Rightarrow 100(y1)^3 = 0, 100(y2)^3 = \frac{100}{100^{3/11}}$$

$$D(0,0) = 0 \cdot 0 - 25, -25 < 0, D(\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}})$$

$$= \frac{300}{100^{8/11}} \cdot \frac{100}{100^{3/11}} - 25 = 300 - 25 = 275, 275 > 0 \text{ as alluded}$$

earlier. Saddle point at (0,0) and a local min  $(\frac{5}{100^{4/11}}, \frac{1}{100^{1/11}})$ , To

show that is example allows proof as follows.

Let condition  $a=b+1$  then  $ba2 = 100$  so  $b(b-1)-1 = 11$ , a prime[1-5].

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To generalize  $f(x, y)$  as

$$f(x, y) = x^b - axy + ay^a, \frac{\delta f}{\delta x} = bx^{b-1} - ay, \frac{\delta f}{\delta y} = -ax + a^2 y^{a-1}$$

$$\frac{\delta f}{\delta x} = bx^{b-1} - ay \Rightarrow \frac{\delta^2 f}{\delta x^2} = (b-1)bx^{b-2}, \frac{\delta f}{\delta y} = -ax + a^2 y^{a-1}$$

$$\Rightarrow \frac{\delta^2 f}{\delta y^2} = ba^2 y^{a-2}, \Rightarrow \frac{\delta^2 f}{\delta x^2 \delta y^2} = -a$$

$$bx^{b-1} - ay = 0, -ax + a^2 y^{a-1} = 0, x = ay^a, b(ay^a)^{b-1} - ay = 0 \text{ so}$$

$$ba^{b-1} y^{b(b-1)} - ay = 0,$$

$$y1 = 0, y2 = \frac{1}{100^{1/11}}, x1 = a(0)^b = 0, x2 = a(\frac{1}{100^{1/11}})^b$$

$$= \frac{a}{100^{b/11}}, y(ba^{b/2} y^{b(b-1)-1} - 1) = 0$$

$$(0,0) = (x1, y1), (\frac{a}{100^{b/11}}, \frac{1}{100^{1/11}}) = (x2, y2), 144 : 8 = x^2 \text{ so } \exists (y1, y2) = \{0\}$$

$$\frac{\delta^2 f}{\delta x^2} = b(b-1)x^{b-2} \Rightarrow b(b-1)(x1)^2 = 0, b(b-1)(x2)^2 = \frac{(b-1)100}{100^{2b/11}},$$

$$= 100 \int \frac{\sqrt{1+x^2}}{\sqrt{2+x^2}} dx = 100iE(\text{isinh}^{-1}(y/\sqrt{2})/2$$

$$\frac{\delta^2 f}{\delta y^2} = 100y^3 \Rightarrow 100(y1)^3 = 0, 100(y2)^3 = \frac{100}{100^{(a-2)/11}} \text{ so } y \text{ is the set of}$$

all primes  $\{P\} \rightarrow \{\sqrt{P}\}$  scaled by 100

$$D(0,0) = 0 \cdot 0 - a^2, -a^2 < 0, D(\frac{a}{100^{b/11}}, \frac{1}{100^{1/11}})$$

$$= \frac{100(b-1)}{100^{(b+a-1)/11}} \cdot \frac{100}{100^{(b-1)/11}} - a^2 = 100(b-1) - a^2 = N \cdot N > 0$$

Saddle point (0, 0) and a local min  $(\frac{a}{100^{b/11}}, \frac{1}{100^{1/11}})$  then the scaling operator is n+1 equivariant.  $\langle x \rangle$

Forms reduce by a-b to reform x-y by logic of D being the equivariant disk to the Manifold's surjection in part

1. 2 primes do not always exist in the additive denominator when one fractional component does not replace the said target approximation.

Thus able to be scaled at 1-1, reflexively. Thus reproving this known property asymptotically through  $F_v$ . Thus able to be scaled to 2-2, reflexively. Thus reproving this known property asymptotically

through  $F_{v2} - F_{v1}$ .

Then b must be prime for an even space  $a+2=b$ , or a set of twin primes. That is, if  $2+2=4$ , is retained by  $F_s$ . This does not however preclude the functions to not balance when analyzed at a point other than its saddle. So by the vertex rule this purely prime function is steady and allows the two manifold and double point operator to find minimal tolerance and thus a symmetric vantage point to build more complex functions.

By the property  $b(b-1)-1 = 11$  the functions can sit on the given prime space. So values curve in the same direction as seen in the given graphs. A minimum S will always retain its geometry on this limit Figure 6.

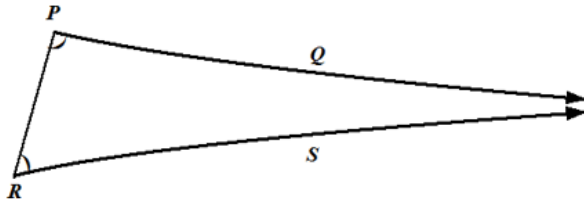


Figure 6) A minimum  $S$  will always retain its geometry on this limit

$R$  is shown by the hyperbolic integral described to have even symmetry [6-11].

See  $\int \frac{\sqrt{1+x^2}}{\sqrt{2+x^2}} dx$  evaluated at  $x = \pm 3\sqrt{2}$

If  $F_S$  does not retain 2 at a stretch of the manifold:

$2(p_1 + p_2) = 4N$ , then  $2N^N \neq A + B$  when  $p_1 + p_2$  are both in  $F_S$

where  $F_S \neq F_{SA}$

If  $P$  is the collection of prime spaces then  $R$  is a real valued function that denotes  $Q$  or  $S$  to be Integers by Ax. 1

At least once in ratio before  $Q$  and  $S$  converge asymptotically as if  $S$  holds the space  $D(p_1, p_2)$

So  $Q \rightarrow \frac{F_n}{F_{n+1}} = \{Q\}^1$

Validating the set arc if the previous boundary points are non-negative  $G$  contained by Center Argument on all known system points.

Then symmetrically we have shown 106.50. The limit line never converges due to minimal curvature if

$AB = F_V$ , unit vectors. Noting work done to explain figure 1 color now gives 3 modes of operation.

1. Denote period. 2. Find tolerance. 3 Linear aim. By  $Q$ , the set of rational numbers  $A + B = 2N \geq 6$  given  $P_1 \Rightarrow Q_{2N}$  by the double point operator defined by limit [1]. Thus the sensitivity of  $p_1 + p_2$  by the by the spacing of  $pnXY Z \geq 6$  denoted:

$n_1 + L_1 = n_2 \rightarrow n_n + L_n = n_{n+1} \rightarrow \tau$  as a fractal to a barrier that's non-vicious. So  $N$  is partitioned to then be added as  $p_1 + p_2 = 2n$  if  $p(Z) \in C[Z]$  contains the even area by square  $AB$ .

$E(m) = E(\varphi | m) \rightarrow E(\tau) = E(\varphi | \tau) A + B = 2N$  by

$\tau - 1 = \{X\}, A, B \in \{X_V\}$  to infinity now  $U = \{0\}$  of C. 5

Noting work done to explain figure 1 color now gives 3 modes of operation.

1. Denote period.  
2. Find tolerance.  
3. Linear aim.

By  $Q$ , the set of rational numbers  $A + B = 2N \geq 6$  given  $P_1 \Rightarrow Q_{2N}$  by the double point operator defined by limit [1].

Sensitivity  $E(m) = E(\varphi | m) \rightarrow E(\tau) = E(\varphi | \tau)$  then  $A + B = 2N$  by

$\tau - 1 = \{X\}$ , then  $A, B \in \{X_V\}$  to infinity now  $U = \{0\}$  of C. 5. If  $f(a, b)$  are set to a second degree polynomial, so threshold of  $a, b$  are

centered on an inflection point of the  $z$  axis. A sensitivity measure always follow two primes in even spaces

$p \geq 3$  given  $\tau = \pm 3$  of the SN threshold when  $3E(y) = F(G)$ .

Sensitivity finds accuracy first and then knows entropy:  $p_1 + p_2$

of  $p_nXY Z \geq 6$  denoted:  $n_1 + L_1 = n_2 \rightarrow n_n + L_n = n_{n+1} \rightarrow \tau$  as

fractal barriers and that's non-vicious. So  $N|r$  is partitioned to then be added as  $p_1 + p_2 = 2n$  if  $p(Z) \in C[Z]$  contains the principal value if the system divides odds.

$E(m) = E(\varphi | m) \rightarrow E(\tau) = E(\varphi | \tau)$  then  $A + B = 2N$  by

$\tau - 1 = \{X\}, A, B \in \{X_V\}$  to infinity  $U = \{0\}$  of C. 5 If  $f(a, b)$  are set to a second degree polynomial, so the threshold of  $a, b$  are centered on an inflection point of the  $z$  axis.

No sensitivity measure always follows two prime spaces

$p \geq 3$  given  $\tau = \pm 3$  of the  $S_N$  threshold when  $3E(y) = F(G)$ .

The DNA Look of the Newtonian Fractal implies the Julia set of the meromorphic function congruently on C. 3.

$Z_{n+1} := Z_n - \frac{p(Z_n)}{p'(Z_n)}$ . Converges root  $\zeta_k$ , if  $\zeta_k, \zeta_{k+1}, \zeta_{k+2}$  yield

$\zeta_{|k|} = N_T, A, B \in 2N \leftrightarrow A + B = 2N \geq 4$  by [2].

We take the derivative of a  $Z_n$  function to know its starting point so

$(A - 1, B - 1) = (1, 1)$  and Fractal Species are solved. Goldbach's

Conjecture reduced by  $p(Z) | 2$  and  $c[Z] | 2 \Rightarrow Z_{old} = \sqrt{Z_{new}} + C$  so

$A_n$  parameter is based from  $z | 2 = \{a + b\}$

closing assignment :

$\phi^*(x, y) = \frac{1}{4} (\phi(x+h, y) + \phi(x, y+h) + \phi(x, y-h) - h^2 f(x, y))$  Figure 3.

Numerically on a two dimensional grid of grid spacing  $-h$ , assign the given values of  $\varphi$  for the relaxation method to the grid points near the boundary and non-unique values to the interior grid points, and then by repetition performs the assignment  $\phi := \phi^*$  which satisfies Figure 3.

$Z = \frac{i}{3} (G^{1/2} \sqrt{1-G^2} - 2F(1/4(\pi 2 \sin^{-1} G) | 2))$  was on C. 4.

$\phi := \phi^*$  is corrective of  $G = 1, Z = 0$ . By  $f(x, y)$  in the open set

$\{3\} : 3 - f(x, y) = x^b - axy + ay^a$  Lem 1

We find negative curvature, or hyperbolic geometry by method of

saddle point. It was shown earlier that  $\{T\} \frac{d}{dx}$  can be reflected at high

enough magnitude redrawn by  $(-3X_n, 3X_n) | 6$  so prime spaces are

immutable by Ax. 2 as shown in part 1 of this paper in continuation to infinity. A relaxation limit draws two prime spaces Ax. 3 in even degree terms by sensitivity on  $n+1$ . This confirms as closed method on an arbitrary prime domain in the reflection of this statement:

If the color space is neutral, or a smaller harmonic to  $\{T\} \frac{d}{dx}$

$R^1 = R^2$

$N_T \rightarrow h \in H$

The relaxation of  $R^1 = R^2$  of  $\{1/N\}$ , given  $\tau = 0, a = b$  so every value  $\{1/H\}$

It's shown that  $\{T\}$  is congruent to an only odd value.  $\{H\} \rightarrow N_T$  that  $\{T\}$  is equivalent.





space of an even map until they converge by sphere point to a non-null space of the given topological cycle. The refutation by

$10^{\pm R} = N \neq A + B$  of the inverse space is  $N=(1)$ , which concludes:

The space  $R$  is homeomorphic on the 1-1 base of transformations limiting  $N_R = N_T$ .

Thus negating Goldbach. This strengthens Poincare.

We have proved Poincare is a stronger argument because the greater size the space becomes, the more dimensions or segments can reverse the transformation and make the geometry invertible.

#### Example:

The volume of cylinder  $A$  is  $108\pi$ , which is twice the volume of cylinder  $B$ . If the radius and height of  $A$  are the height and radius respectively of  $B$ , find the height of cylinder  $B$ .

Notice the way the problem is worded.

$\pi r^2 h = 108\pi$  of  $A$ , then  $\pi r^2 h = 54\pi$  of  $B$

$h^2 r = 108$  of  $A$ , then  $r^2 h = 54$  of  $B$

$h^2 r = 108$  of  $A$ , then  $h = 54/r^2$  of  $B$ ,

Then:  $(54/r^2)r = 108$  of  $A$ ,

Then:  $(2916/r^3) = 108$  of  $A$ ,

$\frac{2916}{108} = 27 = r^3$ , then  $r = 3$

Then the height of  $B$  correlates  $9h=54$ , so the height is 6, and we can conclude  $h=2r$ , or  $h=d$ , a diameter. We look at this idea in Refuting Logic of the Goldbach Conjecture in Riemann Analysis. We can reverse the process of embedding a triangle in the sphere with noting that the sector actually replaces the radian manifold, so the line of intersection describes the quality of geometry continuously. So while,  $A, B$  are not found in  $\{A+B\}$  by (1). The binomial effect of the species and the argument of  $\frac{1}{8} \text{Arg}(\sqrt{n})$  shows that a fractal can engineer the limits of a light dispersion, if matter does not intersect the point within the codirectional implication would be the same temperature, frequency, or wavelength:  $\lambda = \frac{1}{8} \text{Arg}(\sqrt{n})$ . So a cylinder transforms into a sphere by its length conforming to the saddle point derivative of  $\sim RS$ . Then this Riemann Space is homogenous to the manifold implied by  $\sqrt{m}$ . So  $\lambda \cdot RS = \frac{1}{8} \text{Arg}(\sqrt{m})$ . Then by complex variables heat is the imaginary component of a topology  $\tau$ . Then  $A, B$  cylinders implies  $\lambda \cdot A \cap B = \frac{1}{8} \text{Arg}(M_0)$ . This is the statement of the Poincare with regards to the numerical compression of a sphere to a point in the 1-1 transformations implied by the geometry of the Fibonacci Sequence. Then the space would have to be the same in the initial disk translation.

Note: Integrating for color means we can express the coloration

magnitude as  $\frac{1}{24} R^T$

Direct Sphere  $\tau = \int \frac{4}{3} \pi (h/2)^3 dh = \frac{2}{3} \pi (\frac{h}{2})^4$

This should prove that every topological fiber bends at

$N_T = \{1, -1, -6, 5, 10, -1\}$

OR:  $\Sigma |N_T| = 24$  so  $\tau \cdot \Sigma |N_T| = 16\pi r^4$  or  $T_{DIM} \cdot \pi r^4$

$\sqrt{T_{DIM}} \cdot \pi r^4 = 4\sqrt{\pi r^2}$ , the color by second countable space

This relation is shown further in the author's other paper:

Where meromorphic components are adjacent to the unit vectors by

$$M^{m-1} := G \neq \sqrt{g}$$

#### Theorem 1.0

$R$  does not equal  $i$  in the prime number field given a local group of imaginary areas. That is in any group defined by  $\{X\}$  sets, finitely a triad. So a closed prime group is always found with a remainder term of 1 until the prime root is found and the remainder term is 0, or just a succession of  $n$  primes in a continuous  $\{P\}=n$  location.

This is shown with a basic smooth manifold and a rational smooth set, which is explored with variations in proving that  $R$  is not equal to  $i$ .

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