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# **THEOMATHESIS**

**A BRIEF TRACTATE ON  
TRANSCENDENTAL MATHEMATICS,  
THEOLOGY AND QUESTIONS ON PHYSICS**

**INSPIRATION FROM THE PEACE GAME METAPONTUM**

**[INVERTED CHESS]**

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**PREFACE: THEOMATHESIS\*1 IS A RECENTLY DEVELOPED CLASS OF MATHEMATICS THAT CAN CONVERT DATA FORM PHYSICS TO METAPHYSICS AND THEN TO THE TRANSCENDENTAL REALM. ITS ORIGIN LIES IN THE METAPONTUM PEACE GAME\*2**

SUMMARY: Collaborating Metapontum-players try to find the least number of moves to exchange territory starting from a standard chess position. Each piece must occupy the place of his counterpart of the other colour. Each side makes 33 moves in the best game yet. The 32 pieces cross **1448** hexagons; this is called: *‘the metaphysical or moral and crucial distance between war and peace’*.

**STATISTICS OF THE METAPONTUM MASTER Pi GAME:**

Hexagons crossed per group	Motion per group expressed in degrees
Group 1; 02 regents cross 18 hexagons;	[ 18 : 1448] x 360 = 4°
Group 2; 10 pioneers cross 64 hexagons ;	[ 64 : 1448] x 360 = 16°
Group 3; 04 scientists cross 144 hexagons;	[144 : 1448] x 360 = 36°
Group 4; 04 ministers cross 192 hexagons;	[192 : 1448] x 360 = 48°
Group 5; 04 templars cross 198 hexagons;	[198 : 1448] x 360 = 49°
Group 6; 02 magisters cross 304 hexagons;	[304 : 1448] x 360 = 76°
Group 7; 06 laureates*3 cross <b>528</b> hexagons;	[528 : 1448] x 360 = 131°
2x 16 moving parts cross <b>1448</b> hexagons to turn war around	<b>360°</b>

**METANOIA MAKES “PLAYING” WITH SCIENCE AND THEOLOGY POSSIBLE**

Metapontum players practice thought-inversion, *metanoia*. They use the Golden Rule: “Do to others as you would have others do to you”. Players develop the best and most practical teachings from philosophy, theology and sciences to educate, confirm and motivate noble minded political leaders to move their ‘parts in the game’ towards a common goal: **concordia humana (harmony among peoples and nations)**. They show that by promoting the spirit of cooperation, chess, as analogue to war, can be transformed to peace and ultimately world peace. Likewise, war-thinking can be converted to good, true and beautiful thinking for all. Metanoia brings ‘**syntropy**’ into action, the process of reconciliation and reconstruction leading to the original order of creation.

**THEOMATHESIS: DIVINE MEASURE; LAW OF CONSTANTS THAT CAN RECAPITULATE THE ESSENTIAL UNITY IN ALL SCIENCES**

Theomathesis uses the Metapontum-numbers [mn] 1448 & 528. These mn can convert to the dynamic, harmonic and transcendental numbers **e, π, fi**, [e = 2.71..; π = pi = 3.14..; **Fi = 1.618..**]. With this transcendental **e, π, fi**, trinity one can replace the standard notations of the natural constants and atomic weights. All is written in a new mathematical, metaphysical language to analyze quantifiable philosophical, scientific and theological issues like the Big-Bang theory versus creation theology.

[\*1 Theomathesis means: divine measure or divine magnitude; it is a scientific game in progress]

[\*2; see Metapontum peace-game statistics below] [\*3 a laureate; an elevated pioneer in Metapontum, a promoted pawn in chess]

## TWO CONVERSION-METHODS UNITE THE INVISIBLE AND VISIBLE WORLD THROUGH COMMON DENOMINATORS

Metapontum-players search for theological, metaphysical and scientific common denominators whose laws of friendship, justice and reciprocity resemble a state of heaven and translate into lasting peace. This gives a new meaning to playing games: “change malevolent or entropy based games into syntropy based or benevolent games to transcend the delusion that only the “strong only have the right to survive!”

**Note to the reader wanting to check the formulas. Because the iMac-computer uses different mathematical codes relevant to Microsoft-Word, we give the equivalents here. Exponent symbols like 2<sup>nd</sup> power or squares, 3<sup>rd</sup> or 4<sup>th</sup> powers we write as:  $\underline{xy2}$ ,  $\underline{xy3}$ , etc; the anti 10 logarithm ( $\underline{anti\ 10\ logarithm} = \underline{al\ x}$ ) or  $x = \underline{al\ 3} = 10 \times 10 \times 10 = 1000$ , etc.; the inverse of x as exponent or power is  $1 : x = \underline{x-1}$ ; the 3<sup>rd</sup> power root of  $y = \underline{3x\sqrt{y}}$**

On writing powers etc.

$\underline{x-1} = 1 : x$ ; thus (...)  $\underline{x-1} = 1 : (...)$ ;  $\underline{c\ x-1} = 1 : c$ ; etc.

$\underline{al}$  = 10 to the power x; thus  $\underline{al}(\dots) = 10$  to the power (...)

$\underline{x\sqrt{y}} = x$  root;  $\underline{xy2} = x$  to the 2<sup>nd</sup> power;

$\underline{xy4} = x$  to the 4<sup>th</sup> power.

## COMMON DENOMINATOR FORMULAS BASED ON THE METAPONTUM NUMBERS [mn], 1448, 528

1.  $1.448 \underline{yx4} : 0.2 \pi = 7$  [1.448 = 1.448169769]
2.  $\ln 33.356 \underline{yx2} = 7$  [7 = 7.01448]
3.  $\sqrt{e7.01448} = 33.356$  [c x-1 x E7] [c = 1: speed of light]
4.  $1.448 \underline{yx4} : 0.1 \pi = 14$  [1.448 = 1.448169769]
5.  $1.448 \underline{yx4} : fi = e1 = 2.7182818$ ; e exact [1.448 = 1.448169769]
6.  $1.448 \underline{yx4} : e1 = fi$  [1.448 = 1.448169769]
7.  $1.448 \underline{yx4} : 1.4 = \pi$  exact [1.448 = 1.448169769]
8.  $E7(\ln \underline{al} 14.4865) \underline{x-1} = c$  [299792.55 km/sec.]
9.  $t : (14.48 \underline{yx2} : 2) = c$  [c = 299792.5 km/secs.] [14.48 = 14. 50964] [1 year in 31557600 secs.]
10.  $14.48 \underline{yx2} : 2 \times c = t$  [1 year in 31557600 secs.] [14.48 = 14. 50964]
11.  $\sqrt{(2(t : c))} = 14.48$  [mn] [14.48 = 14.50964]
12.  $c \times 14.48 \underline{yx2} : 2 : E7 = 3.14288 \approx \pi$  [ $\pi = 3.1415927$ ]
13.  $t \times 14.54 \underline{yx2} : 2 : E8 = 33.358$  [c x-1 x E7]
14.  $(\ln \underline{al} 14.4865) \underline{x-1\ x-1} = 33.356$  [c x-1 x E7]

## THE 3 FORMULAS BELOW RELATE TO THE THEOLOGICAL NUMBER 144000 [Apocalypse, chap.14].

$$\begin{aligned} (4\ln(4e4 \times 144000)) \underline{x-1} \times E5 &= 1448; & (4\ln(4e4 \times 144000)) \underline{x-1} \times E5 &= 1448.111589 \\ (20\ln(144000 \times 1448 \underline{yx2})) &= 528; & (20\ln(144000 \times 1448 \underline{yx2})) &= 528.6689145 \\ e(528 : 20) : 1448 \underline{yx2} &= 144000; & e(528.6689145 : 20) : 1448 \underline{yx2} &= 144000 \end{aligned}$$

## THE e, π, Fi TRINITY & mn RELATE TO NUMBER SEVEN -7- IN GENESIS AND TO MAN

### STEP 1

The velocity of light -c- = 299792.5 km/sec. Light is the supreme and primary substance of creation. It is also the first natural quantifiable data mentioned in Genesis out of which the heavens or cosmos and the earth are composed in a physical manner in a time frame of 'seven' -7- days. The number 7 is a holy or divine number; it can be called a metaphysical number as well. The number 7 is the mathematical point of departure in creation because it facilitates the relationship between a mystical state with the metaphysical or invisible domain (heaven) and the natural cosmos or world. Time,  $t = 60 \times 60 \times 24 \times 365.25 = 315576000$  secs.;  
 $t : 365.25 \times 7 = 604800 =$  one week in seconds.  $\sqrt[7]{604800} = 5.2808$  Thus  $5.28 \times 10^8 = 604800 : 7 = 1$  week/secs. Also  $(20 \ln(144000 \times 1448 \times 2)) = 528$ ;

**How do we know that?** Theomathesis reveals to us this mystery. When we take the holy number 7 as a power or exponent of the transcendental number e, that is  $2.718 \dots \times 7$ , we obtain the metaphysical or supra-natural, also the transcendental, that is the inverse of the natural logarithm of 7. The square root or  $\sqrt{e^7} = 33.356$ . This number 33.356 corresponds exactly to the age Jesus Christ, the Creator by virtue of the hypostatic union with the Holy Trinity. This is theological data based on the Old and New Testament. By means of the number  $i = \frac{x-1}{x}$  as exponent of  $33.356 \times E7$  [ $E7 =$  exponent 7 of or  $10 \times 7$  or 10,000,000] we obtain the exact velocity of light  $c = 299792.5$  km/sec., again. This fact is confirmed again by the mn:  $E7(\ln \frac{a}{l} 14.4865) \frac{x-1}{x} = c = 299792.55$  km/sec.

### STEP 2

We know time -t- by means of astro-physical observations and calculations and through our intellectual and metaphysical attunement, because man fails to perceive time directly through his 6 senses. Earth time is  $60 \times 60 \times 24 \times 365.25 = 3156700$  seconds. When we relate time to light,  
 $t : c$  or  $3156700 : 299792.5 = 105$ . This number 105 represents the number of elements in the periodic system from which our physical body is composed. Man is therefore an immutable part of the cosmos originating in a transcendental function of light and time from which his body is composed mystically. But because c, light, is constant per definition, it is therefore also permanent. This means that man has also an eternal nature; hence man is eternal by virtue of his participation in this transcendental nature in light and time and by virtue of his participation in constancy.

Also the mn in Theomathesis  $14.4865 \times 2 : 2 = 105$  confirms this. Time, t, has 4 indissoluble periods: A. the past, B. the present, C. the future and D. eternity. This we see in the natural logarithm of t.  $\ln t = \ln 3156700 = 17.26$ .

$4 \times 17.26 = 69.069$ . The inverse  $(\frac{x-1}{x})$  of  $69.069 \times \frac{x-1}{x} \times E5 = 1448$ . This is the mn van Metapontum perceived as a reflection of heavenly time or eternity.  $14.48 \times 2 : 2 \times c = t = 31557600$ .

[  $14.48 = 14.50964$  ]

This is confirmed again by the mn formula  $e((0.01447.822124 \times \frac{x-1}{x}) : 4) = 31557600 = t$  or

$e((1447.822124 : E5) \times \frac{x-1}{x} : 4) = 31557600 = t$  or in short:  $e((1448 : E5) \times \frac{x-1}{x} : 4) = t$ .

This signifies that the mn 1448, in a mystical way by means of Theomathesis, can be transformed to 1 year in seconds and to light.

### STEP 3

Man, that is moral man, has a divine potential; he is created out of light and time. He is destined for eternity for he comes by means of the sidereal dust of the 105 elements. However, he also existed prior to his physical state in the intention of the eternal divine thought. This eternal divine, transcendental thought, becomes a living reality through the breath of God (divine pneuma or Ruah).

*“Then the Lord God formed man of dust from the ground, and breathed into his nostrils the breath of life, and man became a living being (Gen 2.7) [this is an e’ pericope].*

The number 2.7 denotes the number of the natural logarithm -e-. This breath is the Word of God, the Logos, the 2nd Person of the Holy Trinity, who bestows life to matter to form man by means of the divine thought-will. Gods thought of man was before man was created out of the sidereal dust. He existed therefore prior to his physical creation in the divine, eternal idea. Although man was destined and meant to be eternal in heaven, - for God is eternal-, the first man, -Adam-, inverted everything, overturned all [x-1], this is known as the fall or Adam and his descendants. This fall resulted in mans broken nature, through sin. Man then became a temporary creature chained to death and ignorance of the transcendental laws of truth because he was disobedient to Jahweh God by turning against Him, the transcendent God.

Then it came to pass that man -Adam- listened to the voice of the serpent who made it appear that he, -man- would be equal to the transcendent God, the Godhead, and that he would not die at all or perish when he would eat of the fruit of the tree of the knowledge of good and evil planted in the midst of the garden of Eden (read Genesis 3). Then Jahweh God said to the serpent who deceived man: *”Because you have done this, cursed are you above all cattle and above all wild animals, on your belly you shall go and dust you shall eat all the days of your life”* (Genesis 3.14; this is a  $\pi$  pericope). Hence the first humans became disloyal to God and they were ejected from Eden in consequence and they then went in reverse direction, away from God, and all creation became perverted and corrupted.

Christ however, [ $\sqrt{e} 7.01448 = 33.356$ ] comes to restore man to his original purity, overturning,  $i = \underline{x-1}$ , his death by elevating his broken nature (e = elevation, nl, base number 2.7) by means of His conversion that is the inversion of His light (c x-1). The transcendent God emptied Himself and became God-man and died so man could become a god again to live for ever. This is divine reciprocity. The Logos, the 2nd Person of the Holy Trinity, [ $\log_{10}$ ] opens the portals of heaven for men to life eternal, making all things new, 14.48. Man freed from the slavery of sin = ignorance, rebellion, corruption and death, becomes a divine being, a citizen of heaven (apotheosis). This is expressed in the language of Theomathesis and symbolically represented and made visible by Metapontum.

### MATHEMATICAL INTERPRETATIONS OF STEPS 1, 2, 3

1;  $c = 299792.5 =$  speed of light km/sec., 7 days of creation

2;  $c \underline{x-1} \times E7 = 2299792.5 \underline{x-1} \times E7 = 33.356 =$  Christs age 33 jr.  $\pm 4$  mnd = 14th day of Nisan, old Hebrew calendar.

3; nl = natural log of 33.356 xv2 is 7, holy number.  $\sqrt{e} 7 = 33.01449 = 33.356$  [see Gen.27; e = 2.7..]

4;  $e 33.356 = 3.065 E+14 =$  Christ elevates

5;  $\log 3.065 E+14 = 14.486$ . The Word [Logos, log] shows that synergy has to do with the law of death and resurrection of man, compare number 1448;  $14.4865 \underline{xv2} : 2 = 14.48 \times 14.48 : 2 = 105$  elements shape man

6;  $105 \times E7 \sqrt{(e7.01449) \underline{x-1}} = 31457040 = \pm 1$  jr/sec. = time; 105 cosmic elements x Christ’ life time = time

7;  $4 \times \ln 31457040 = 69.056$ ; time, t, has 4 periods: 1.past, 2. present, 3. future, 4. eternity

**8**;  $69.056 \cdot x^{-1} = 0.0144808$ . The value of eternity we see by the inversion of  $t = 4 \ln t$ ; this contains the number 1448 when multiplied by  $E^5$

**9**;  $E^5 \times 0.0144808 = 1448$  the Metapontum number;  $E^7 \sqrt{(e^{7.01449})^{x-1}} = 299795.5 = c$

step **1**; light =  $c = 299792.5$  ; step **2**;  $2299792.5 \cdot x^{-1} \times E^7 = 33.356 = I.C.$

step **3**;  $e^{33.356} = 3.065 \times 10^{14}$  ; step **4**;  $\log 3.065 \times 10^{14} = 14.486$

step **5**;  $14.4865 \cdot x^2 : 2 = 105$  elements ; step **6**;  $105 \times c = 31457040 = \text{time}$

step **7**;  $4 \times \ln 31457040 = 69.056$  ; step **8**;  $69.056 \cdot x^{-1} = 0.0144808$

step **9**;  $E^5 \times 0.0144808 = 1448$  ;  $E^7 \sqrt{(e^{7.01449})^{x-1}} = 299795.5 = c$ .

**“And God said let there be light and there was light. And God saw that the light was good”.** (Genesis 1, 3)

**Christ says:** “I am the light of the world; (Jo 8,12); “I am the Alpha and the Omega, the beginning and end = time and eternity. (Apocalypse 3,14...)

And as Moses lifted up the serpent in the wilderness, so must the Son of man be lifted up, that whoever believes in him may have eternal life” [π pericope]. (Joh 3.14)

”I am the Light of the World”; (Joh 8,12)

This says the “Amen”, the faithful and true witness, the beginning of God’s creation.

[π pericope]

(Apocalypse 3.14)

“I am the Alpha and the Omega”, says (Jahweh) God, the Lord, who is and was and who is to come, the Almighty. (Apocalypse 1.8)

“And he said to me: It is done! I am the Alpha and the Omega, the Begin and the End!” (Apocalypse 21.6)

“I am the Alpha and the Omega, the First and the Last the Beginning and the End”. (Apocalypse 22.13)

The Bible texts speak over light, time, eternity, creation, the fall, the conversion the return and the redemption of man to his original state (The Holy Bible, revised, standard version, 1952).

Note. Remarkable is the creation and redemption teaching contained in the ‘*e*’ and 4 ‘*π*’ pericopes:

Genesis 2.7 : creation of man;

Genesis 3.14: fall of man and curse of the serpent;

Exodus 3.14: revelation of Gods Name, Gods help, Gods promise and reconciliation;

Johannes 3.14: announcement of the death and resurrection of Christ, salvation and life eternal for the ‘converts’;

Revelation 3.14: eschatology, doctrine of the end of things concerning the fate of man after death and the final judgement, etc.

## MATHEMATICS, e,π,fi, META-NUMBERS, SCIENCE AND THEOLOGY

Number **360** converts to: *A*: Apocalypse's 144000; *B*: mn 1448; *C*: light-c-; *D*: Christ's life; *E*: number of elements; *F*: time *G*: **e, π, fi**. 360° represents the circle and the Host in theology.

On writing powers etc.

$\frac{x-1}{x} = 1 : x$ ; thus  $(\dots)\frac{x-1}{x} = 1 : (\dots)$ ;  $c\frac{x-1}{x} = 1 : c$ ; etc.

$\frac{a!}{a} = 10$  to the power  $x$ ; thus  $\frac{a!}{a}(\dots) = 10$  to the power  $(\dots)$

$\frac{x\sqrt{y}}{x} = x$  root ;  $\frac{xy^2}{x} = x$  to the 2nd power

$\frac{xy^4}{x} = x$  to the 4th power.

- A.**  $((36000 \frac{x-1}{x} : 4) \frac{x-1}{x}) = 144000$   
**B.**  $E5((4\ln(4e4(E5((360\frac{x-1}{x} \times E3) : 4) \frac{x-1}{x})))) \frac{x-1}{x} = 1448.111589^*$   
 $(4\ln 31445343.61) \frac{x-1}{x} = 69.05504589$ ;  $69.05504589 \frac{x-1}{x} \times E5 = 1448.120101$   
 $2(0.0001) \frac{x-1}{x} (e1) \frac{x-1}{x} \times \pi \frac{x-1}{x} \times fi \frac{x-1}{x} + 1 = 1448$  [1448.4314]  
**C.**  $= E5(\frac{a!}{a} (E4(1448.111589 \frac{x-1}{x} : 14.48111589))) \frac{x-1}{x} \frac{x-1}{x} = 299823.4119 - c = \int 30.9 \text{ km/secs.}$   
 $(\ln \frac{a!}{a} 14.48111589) \frac{x-1}{x} \times E7 = 299904.0165 - c = \int 111 \text{ km/secs.}$   
**D.**  $\ln \frac{a!}{a} 14.48111589 = 33.34400158 = \text{Christ's lifetime}$   
**E.**  $(14.48111589 \frac{xy^2}{x} : 2) = 104.8513587$  number of elements  
**F.**  $((14.48111589 \frac{xy^2}{x} : 2) \times (\ln \frac{a!}{a} 14.48111589) \frac{x-1}{x} \times E7 = 31445343.61 = \text{time/1yr/secs} \approx t$   
 $31445343.61 - t = 112256 \text{ secs} = \int 31 \text{ hours difference taking 360 as a base number}$   
**G.**  $\sqrt{(104.8513587:40)} = 1.619037979 = fi'$ ; this corresponds to  $e^3 = 2.718379556$  and  $\pi^3 = 3.1421568$ .

## THE THREE e, π, fi CONSTANTS RELATE TO THE NATURAL CONSTANTS

Theomathesis links three domains:

1. domain of physics or nature;
2. domain of metaphysics or intellect;
- 3 the transcendental or domain of spirit or matters divine.

The natural constants relate to three **e, π, fi** transcendental-constants and the meta-numbers. They form a new relationship capable of explaining phenomena like light etc., in transcendental terms to reinterpret the mysteries of constancy in nature, in metaphysics, in mathematics and in theology.

## DRAFT DEFINITION OF THEOMATHESIS:

An innovative use of transcendental mathematics to change old, controversial ideas of a dead universe originating from an explosion, into a living metaphysical cosmos of essential unity created in a transcendent milieu whose living wills-impulse uses three e-π-fi constants and or mn to determine natural laws, measures and results to create moral, human life destined for constancy or heaven. The natural foundation stones united to quantifiable theological concepts relate an image of a metaphysical cosmos structured on laws of eternal harmony. Theomathesis discovers "a divine signature in nature but more vitally in man". By uniting science and theology in a new science, Theomathesis, one may clarify the lacunas and obscurities in the nature of transcendence pertinent to eternal life, such as theologians and philosophers witness.

**SHORT DISCUSSION:** Theomathesis contrasts **the Big Bang theory** with a predetermined **-Ex Lux, Fiat Lux** theology, a cosmological creation from one metaphysical Light-Mass. This ‘theomathetic or unified view’ on the mystery of existence elevates current scientific beliefs to a higher level in a non-contradictory context in order to open new perceptions on the nature of constancy in a transcendent world, a world endowed with boundless, eternal, moral and divine life. This view, held by those adhering to revealed sacred scripture, restates an ancient Pythagorean doctrine:

*“The eternal being of number forms the all providential source of the entire heaven and the earth and nature in between and is moreover the foundation of the survival of deified man, gods and spirits”.* (Life & teachings of Pythagoras, ISBN 9026308353)

**METAPONTUM: TRANSCENDENTAL WORLD IN EULER’S FORMULA “ $e^{i\pi} + 1 = 0$ ”**

Euler’s formula: “ $e^{i\pi} + 1 = 0$ ” is essential in higher mathematics whose 5 symbols summarise the entire science of number. This formula appeals to mathematicians, philosophers, mystics and theologians. The 2 most important transcendental numbers **e** and  **$\pi$**  balance to **0** by the imaginary number “**i**”.

**Euler’s formula “ $e^{i\pi} + 1 = 0$ ” modified by Theomathesis:**

$$E4\ln(e^1)^{\frac{x-1}{\pi}} + 1 = 1448.3 \quad ; \quad \frac{d}{dx} \sqrt{\sqrt{40(e^{\pi \frac{x-1}{\pi}})}} = 528$$

**REALITY & BEING REST IN TRANSCENDENTAL NUMBER**

Nothing that exists is without source or root, measure, law and will; matter and all human beings are an expression of one act of One transcendental Will who calls all to be, to exist in order that that which is willed comes to be in an orderly process of evolution in time and space through light. The use of number, mandated by Will is Divine law. Transcendental number is a precise measure of the necessity of order, based on an absolute authority among things in the natural universe. This is Divine law. Natural laws reflect by abstraction eternal laws coded in three **e- $\pi$ -**i**** magnitudes that relate in inverse mathematical proportion to the empirical world. This is caused by “**i** =  $\sqrt{x-1}$ ”, an imaginary number that is not, and yet is. “**i**” separates the visible from the invisible, the knowable from the unknowable, the probable from the possible, the empirical temporal from the ideal absolute.

**“**i** =  $\sqrt{x-1}$ ” IN THEOMATHESIS WORKS THE IMPOSSIBLE**

**i** is a mathematical paradox, a mechanism of inversion. Like ‘metanoia’ in theology, it has a metaphysical root. Placing ‘**i**’ between ‘**e**’ and  **$\pi$**  makes the impossible, possible, turning the mathematics of the world-order up side down to reveal a perfect balance beyond empirical inspection. ‘**i**’ makes all things new and good, it transcends the dissipation of energy, entropy, it opens the gates to everlasting life for man. The loss of life-energy, death, becomes syntropy, the law resurrection, the bridge to the other world, symbolised by Metapontum. A metamorphosis takes place of the inner man, the man-person, that is his human energy that is transformed by the transcendent light, that is the divine knowledge through the power of faith and from this faith man lives as man-person. His period of time in matter corresponds to the natural biological processes known to biologists. This has to do with the laws of death and resurrection, of which the mystery of Easter is the ultimate proof for man. The bridge to the other world (heaven) is symbolised by Metapontum where all moving parts (pieces) reach the other side (shore) after their metanoia-conversion- and where 5 out of 8 pioneers are elevated

to laureate after their passage through the desert-odyssey in the game of life to the land of milk and honey!

Numbers 1448 and 528 imply moral, co-operative, peace-interaction; they relate to 144000, chapter 14 of the Apocalypse and Jesaja 52.7- 8 who says:

*How beautiful upon the mountain are the feet of him who brings good tidings, who publishes peace, who says Zion, "Your God reigns". Hark, your watchmen lift up their voice, together they sing for joy, for eye to eye they see the return of the Lord to Zion.*

Both formulas speak by analogy of the root of all things: "JWHW" [Exodus 3.14], creator of heaven and earth; 40 years desert life, etc., working to turn egoism into selfless action for the sake of the good of all in the love of God. The number 528 represents the actions of the laureates in Metapontum who redeem the remaining pioneers that march to the Promised Land.

*Then I saw a new heaven and a new earth: for the first heaven and the first earth had passed away, and the sea was no more (sea = evil). (Apocalypse 21,1)*

### ON SCIENCE, LIGHT, Max PLANCKS' H, Fi AND THE NUMBER 144

Planck's constant 'H' refers to a photon of monochromatic light.  $E = h \times f$ ;  $f = \text{frequency}$ . The higher the  $f$  the shorter the wavelength. The size of the quantum for any particular form of electro-magnetic radiation is in direct proportion to its frequency.  $fi$  is almost exact.

On writing powers etc.

$x^{-1} = 1 : x$ ; thus  $(\dots)x^{-1} = 1 : (\dots)$ ;  $c \cdot x^{-1} = 1 : c$ ; etc.

$\underline{aL}$  = 10 to the power  $x$ ; thus  $\underline{aL}(\dots)$  = 10 to the power  $(\dots)$

$\underline{x\sqrt{y}}$  =  $x$  root ;  $\underline{xy^2}$  =  $x$  to the 2nd power

$\underline{xy^4}$  =  $x$  to the 4th power.

#24 Planck's	Constante H	6.60176568 E-27
New formula	$\underline{aL}(-10fi \underline{xy^2})$ $((144.0863208 \underline{xy^4}:2)xy \pi) \underline{x^{-1}}$	6.601765662 <sup>E</sup> -27; $fi' = 1.618037579$ mn 1458; 5.236 ; n $\underline{yx^4}$ = n to the 4th power
#12 Planck's	Constant Joules H	6.626196 <sup>E</sup> 6-34 Jsec.
New formula:	$(e(2\sqrt{((10 fi' \underline{x^{-1}}) \underline{yx^4}))}) \underline{x^{-1}})$ $((2\sqrt{1459.12})) \underline{x^{-1}}$	6.626196109 <sup>E</sup> -34 Jsec.; $fi' = 1.61799523$ ; mn 1436.8 ; 5.276; mn 1459; 5.236
	$(e(2\sqrt{((10 fi \underline{x^{-1}}) \underline{yx^4}))}) \underline{x^{-1}}$	6.6505049 <sup>E</sup> -34Jsec.

### Short Chronology of $\pi$

- 2000 B.C. Egyptians used  $\pi = 16 \underline{xy^2} : 9 \underline{xy^2}$   $\pi = 3.1605$
- 2000 B.C. Babylonians used  $\pi = 3 + 1/8$   $\pi = 3.125$
- 300 B.C. Archimedes  $\pi : \geq 3 + 10 : 71 = \geq 3.1408$   $\pi = \leq 3.1428$ .
- $\pm 200$  B.C Ptolomy  $\pi$  142 : 120  $\pi = 3.1416$
- $\pm 450$  Tsu Chung's  $\pi = 355 : 113 =$   $\pi = 3.1415929$
- $\pm 600$  Some Hindus used  $\pi = \sqrt{10}$  or  $\pi = 3.1622$
- 1220 Fibonacci, Leonardo of Pisa's  $\pi = 3.14181$
- 1580 J. Napier invents the base 10 and  $e = 2.718$  logarithm
- Newton discovers calculus and calculates  $\pi$  to 16 decimals
- 1710 W. Jones uses the symbol  $\pi$  for ratio of circumference
- 1748 Euler's theorem on  $\pi$  and  $\pi \underline{xy^2}$  ; his famous math formula: " $e \cdot x^i \cdot \pi + 1 = 0$ "
- 1809 Liouville discovers transc.numbers; no roots of algebraic equations
- 1840 M. Legendre proves the irrationality of  $\pi$  and  $\pi \underline{xy^2}$

14. 1855 Richter calculates  $\pi$  to 500 decimals
15. 1873 Hermite proved the transcendence of e, the natural logarithm 2.7182818
16. 1874 W. Shanks publishes  $\pi$  to 707 places, takes 20 years
17. 1882 von Lindemann proves the transcendence of  $\pi$
18. 1947 Fergeson finds fault 528 place in Shanks'  $\pi$ ; calculates  $\pi$  tot 808 places
19. 1973 CDC computes 1 million decimals for  $\pi$  in 1 day
20. 1997 Kanda ; Kahashi calculate 51.5 billion digits of  $\pi$  in 29 hours
21. 2004 [Frenkel introduces fi,- as a 3<sup>rd</sup> transcendental member].

### CHRONOLOGY OF $\pi$ SHOWS DIFFEENT VALUES

These three, e,  $\pi$ , fi, have a constant relationship; when one of them varies the others vary proportionately, this is because the universe is not static but dynamic and harmonious, the transcendental numbers that deviate from the standard static mathematical notations of  $\pi$ , e, fi are called covariants and carry an (') e',  $\pi'$ , fi' sign.

### TRANSFORMATION OF CONSTANTS TO to e', $\pi'$ , fi'

Now we show that all natural constants and atomic weights can be transformed to  $\pi'$ , e', fi' covariants and their mn functions. In this a metaphysical cosmos is revealed where physical man has his origin; his inner sphere, his spiritual being or soul however, transcends his physical 'container-corpus' much like mathematics transcends measured created matter. Mathematics is eternal and exists independently from matter and is therefore prior to created nature, it is a-priori. Mathematics, especially transcendental math is analogous to the inner forces that give direction conform measuring principles in the cosmos. Especially transcendental math attests of an eternal, constant order and harmony in itself and this order is recognizable in creation. Mathematics does not originate in chaos or an explosion, but it comes from the transcendent, everlasting Arch-Source Who directs everything.

#### On writing powers etc.

$x-1 = 1 : x$ ; thus (...)  $x-1 = 1 : (...)$ ; c  $x-1 = 1 : c$ , etc.  
 $\frac{al}{x} = 10$  to the power x; thus  $\frac{al}{x}(\dots) = 10$  to the power (...)  
 $\frac{x}{\sqrt{x}} = x$  root;  $\frac{x}{x^2} = x$  to the 2nd power  
 $\frac{x}{x^4} = x$  to the de 4th power.

### COVARIANT DATA OF PHYSICAL CONSTANTS & THE PERIODIC SYSTEM OF ELEMENTS

[Note; exponent: x\_\_ = x<sup>4th</sup> power; mn can be converted to e',  $\pi'$ , fi' covariant ( $\sqrt{\sqrt{1449.7}}$   $x-1 = 1.620 = fi'$ )]

CONSTANT	SYMBOL	VALUE	Covariant notation natural constants in e, $\pi$ , fi & mn
#1 Speed of light	C	2.9979250 <sup>E8</sup> m/sec. <u><math>x-1</math></u>	Noot: mn of meta- numbers parallel tot e', $\pi'$ , fi' example: $10(\sqrt{\sqrt{1449.7}})$ <u><math>x-1 = 1.620</math>; <math>\sqrt{(5.253:2)} = 1.620</math></u>
New formula	<u><math>\frac{al}{x}</math></u> (0.1e'4) <u><math>\frac{al}{x}</math></u> (0.1(log 200 fi' $\frac{xv2}{xv4}$ ) $\frac{xv4}{xv2}$ ) (E2(log200 fi' $\frac{xv2}{xv4}$ ) $\frac{xv4}{xv2}$ )* (E7(ln <u><math>\frac{al}{x}</math></u> 14.4865) <u><math>x-1</math></u> )*	299792.5 km/sec. 299792.5003km/sec. 299792.4998km/sec. 299792.55 km/sec.	e' = 2.7203960; fi' = 1.62062624 [mn 1449.7; 5.253] fi' = 1.620281642 [mn 1450.1; 5.251]
#2 Electron charge	E	1.6021917 <sup>E-19</sup>	1.6021917 <sup>o-19C</sup>
New formula	( <u><math>\frac{al}{x}</math></u> (E2(fi' $\frac{x-1}{xv2}$ ; 2)):2) <u><math>x-1</math></u> *	1.602191738 <sup>E-19</sup>	fi' = 1.6181103 [mn 1458.68; 5.236]
#3 Avogadro	N	6.022169 <sup>o26</sup>	6.022169 <sup>E 26</sup>
New formula	e(100fi' <u><math>x-1</math></u> )*	6.022169113 <sup>E26</sup>	fi' = 1.621726992 [mn 1445.7; 5.26]
New formula	fi' ; 128 <sup>ht power</sup>	6.02216900 <sup>E 26</sup>	fi' = 1.6188881 [mn 1455.9; 5.241]
#4 Mass	Me	9.109558 <sup>E -31</sup>	
New formula	(e(10 fi' $\frac{xv4}{xv2}$ )) <u><math>x-1</math></u> *	9.109557703 <sup>E -31</sup>	fi' = 1.621738105 [mn 1445.7; 5.26]
#5 Mass	Me	5.485930 <sup>E-4</sup> amu	
New formula	( <u><math>\frac{al}{x}</math></u> <u><math>\frac{al}{x}</math></u> (-0.1448 x 2)) <u><math>x-1</math></u> *	5.48593003 <sup>E-04</sup>	( <u><math>\frac{al}{x}</math></u> <u><math>\frac{al}{x}</math></u> (-0.1448069784 x 2)) <u><math>x-1</math></u>
#6 Proton Rest Mass	Mp	1.672614 <sup>E-27</sup>	
New formula	(fi' ) <u><math>x-1</math></u> ; 128 <sup>th power</sup>	1.672614047 <sup>E -27</sup>	fi' = 1.618796366 [mn 1456.3; 5.24]
	Mn	1.674920 <sup>E-27</sup>	

#8 Neutron Rest			
New formula	$(e(100 \text{ fi } x-1)) x-1$	$1.674921132 \text{E-}27$	$\text{fi}'=1.621953953$ [mn 1444.92; 5.26]
	$(\text{fi } 128) x-1; 128^{\text{th}} \text{ power}^*$	$1.674920066 \text{E-}27$	$\text{fi}'=1.618778942$ [mn 1456 ; 5.241]
#10 Atomic Mass unit	amu	$1.660631 \text{E-}27$	
New formula	$(e(E2 \text{ fi}' x-1)) x-1^*$	$1.660631018 \text{E-}27$	$\text{fi}' = 1.621728572$ [mn 1455.73; 5.243]
#11 Electron Mass to charge ratio	e/me	$1.7588028 \text{E-}11$	
New formula	$(e(4((0.1 \text{ fi}' x-1)))) x-1^*$	$1.75880281 \text{E-}11$ Ckg	$\text{fi}'= 1.615260812$ [mn 1469; 5.22]
#12 Planck's Constant Joules	H	$6.626196 \text{E-}34$ Jsec.	
New formula:	$(e(2\sqrt{((10 \text{ fi}' x-1) xy4)})) x-1^*$	$6.626196109 \text{E-}34$ Jsec.	$\text{fi}'= 1.61799523$ [mn 1459.12; 5.236]
#13 Rydberg Const.	Roo	$1.09737312 \text{E}^7$ m	
New formula	$(al \text{ fi}' xy4) x-1^*$	$1.097373707 \text{E-}07$	$\text{fi}'= 1.62422713$ [mn 1436.8; 5.276]
#14 Gas const.	Ro	$8.31434 \text{E}^0$ 3J-k mole K	
New formula	$1000 \text{ fi}' xy2 \pi$ $0.001 al (\text{fi } x-1 xy4) x-1^*$	$8.31434 \text{E}^0$ 3	$\text{fi}'= 1.626817943$ [mn 1427.7; 5.293]; $\text{fi}'= 1.621899058$ [mn 1445.1; 5.261]
#15 Boltzman const.	k	$1.380622 \text{E-}23$ JK	
ieuwe formule:	$(e(20 \text{ fi}' xy2)) x-1^*$	$1.380621987 \text{E-}23$	$\text{fi}'= 1.622296567$ [mn 1443.7; 5.264]
#16 Gravitational Constant	G	$6.6732 \text{E-}11$ N- m_kg_	
New formula	$(ee(\log(10(\text{fi}' x-1) yx4)) x-1^*$	$6.673199954 \text{E-}11$	$\text{fi}'= 1.627391698$ [mn 1425.7; 5.297]
#17 Bohr Magneton	b	$9.274096 \text{E-}24$ JT	
Nieuwe formule	$(e(20 \text{ fi}' xy2) x2) x-1^*$	$9.274096095 \text{E-}24$	$\text{fi}'=1.6177402243$ [mn 1460; 5.234]
# 18 Electron Magnetic Moment	_e	$9.28451 \text{E-}24$ JT x-1	
New formula	$(al((1447.246637: E5) x-1: 3)) x-1^*$	$9.284510211 \text{E-}24$	$\text{fi}'= 1.62130$ [mn 1422.185; 5.2573]
#19 Proton Magnetic Moment	_p	$1.4106203 \text{E-}26$ JT x- 1	
New formula	$(al(16 \text{ fi}')) x-1^*$	$1.410620295 \text{E-}26$	$\text{fi}'= 1.615661867$ [mn 1467.56 ; 5.22]
#20 Compton Wave-length Electron	_c	$2.4263096 \text{E-}12$ m	
New formula	$(e(10 \text{ fi}' xy2)) x-1$	$2.426309571 \text{E-}12$	$\text{fi}'= 1.635379152$ [mn 1398.1; 5.35]
#21 Compton wave-length proton	Symbool : _c,p	$1.3214409 \text{E-}15$ m	
New formula	$((2000 \text{ fi}' xy2) yx4) x-1^*$	$1.3214409 \text{E-}15$	$\text{fi}'= 1.619399624$ [mn 1454; 5.245]
#22 Compton Wave-length Neutron	_c,n	$1.3196217$	
New formula	$(al (\text{fi}' x-1 xy4 x E2) x 2) x-1^*$	$1.319621701 \text{E-}15$	$\text{fi}'= 1.61834691$ [mn 1457.852; 5.2381]
#23 Faraday const.	F	$9.64867 \text{E-}7$ Ck mole	
New formula	$(e(.01(al \pi')) x-1^*$	$9.64866987 \text{E-}7$	$\pi' = 3.1414897$ [mn 1385.13; 5.37]
#24 Planck's const.	H	$6.6 \text{E-}27$	
New formula	$al (-10 \text{ fi}' xy2)^*$	$6.601765662 \text{E-}27$	$\text{fi}' 1.618037579$ [mn 1458.96; 5.24]
Licht	c	$186282.44$ miles/sec.	
New formula	$100 \text{ fi}' x-1 \pi xy 7$	$186664.4$	$\pi' = 3.140673; \text{fi}' = 0.618$ ;

	<u>al</u> 5.271061499*		61.8 x 3020.29228 = c-mps
t = time/secs./yr.	31536000 sec.		
New formula:	$e(25000((10(\text{fi}' \frac{x-1}{xy^4}) \frac{x-1}{xy^4}))$	31536000	
	$e((\text{al} 5(1448 \frac{x-1}{xy^4}) : 4)^*$	31490402	[mn 1447.878658]
tw = time/secs./week	6048000 sec.	5.28 $\frac{yx}{x^8}$	[mn 5.280821 ] fi' = 1.624934047
New formula	log tw : $\pi = 5.28$ 0.01 fi' $\frac{xy^2}{\sqrt{w}} = \text{fi}' =$	$(2 \text{ fi}' \frac{xy^2}{xy^4}) \frac{xy^4}{\pi \text{ al} 5.28} = 604801 =$ tw	[mn 5.28446263] fi' = 1.615769719

### PERIODIC SYSTEM OF THE ATOMIC WEIGHTS OF THE ELEMENTS OF MENDELEJEV

Covariant expression of atomic weights related to the hydrogen atom H = 1.008;

H = 1.008 shows in 4 formulas a logarithmic relation to e, fi, mn 528 & 1448. A careful conclusion

is that all atomic weights ultimately can be expressed in fi'en mn 528 & 1448.

Symbol of element; standard number and covariant expression of atomic weights. [\*= verified]

On writing powers etc.

$\frac{x-1}{xy^4} = 1 : x$ ; thus (...)  $\frac{x-1}{xy^4} = 1 : (\dots)$ ;  $c \frac{x-1}{xy^4} = 1 : c$ ; etc.

al = 10 to the power x; thus al(...) = 10 to the power (...)

$\frac{x}{xy^2} = x$  root;  $\frac{xy^2}{xy^4} = x$  to the 2nd power

$\frac{xy^4}{xy^4} = x$  to the de 4th power.

1. H 1.008	<b>Inlog (10(log 528) <math>\frac{xy^4}{xy^4}</math> *</b> <b>Inlog (210 <math>\sqrt{\sqrt{(0.1448) \frac{x-1}{xy^2}}}</math> *</b> <b>Inlog (210 fi' <math>\frac{xy^2}{xy^2}</math> ) *</b> <b>Inlog(2 <math>\pi c \frac{x-1}{xy^4} x E7 (\sqrt{\sqrt{(0.1448) \frac{x-1}{xy^2}}}</math> *)</b>	= 1.00794* = 1.00863* = 1.008028* = 1.008314*	202 fi' $\frac{xy^2}{xy^2} = 528$ <b>Inlog (210 x 1.618033 <math>\frac{xy^2}{xy^2}</math>) = 1.008028</b> <b>Note: fi = exact; 210 = 14.49 <math>\frac{xy^2}{xy^2}</math></b>
2. He 4.0026	<b>ln[e <math>\frac{xy^4}{xy^4}</math>]*;</b> <b>ln(log 200 fi' <math>\frac{xy^2}{xy^2}</math> ) <math>\frac{xy^4}{xy^4}</math> *</b> <b>1.53 fi' <math>\frac{xy^2}{xy^2}</math></b>	ln[log525] $\frac{xy^4}{xy^4}$ *	e = 2.72 $\pi = 3.1415$ ln $\pi = 1.1447$ (fi' = 1620) ln(log 200 fi' $\frac{xy^2}{xy^2}$ ) $\frac{xy^4}{xy^4}$ fi' = 1.617429575 [mn 1461.2; 5.232]
3. Li 6.940	<b>(fi' <math>\frac{x-1}{xy^4} \frac{x-1}{xy^4}</math> ) *</b>	Log[log519] $\frac{xy^4}{xy^4}$ *	e = 2.7149 $\pi = 3.1434$ ln $\pi = 1.1453$ fi' = 1.623079781 [mn 1441; 5.2686]
4. Be 9.01218	<b><u>al</u>(<math>\pi^{\frac{xy^2}{xy^2}} : 10</math>) <math>\frac{xy^4}{xy^4}</math> *</b> <b>5.57 fi' *</b>		e = 2.7131 $\pi \pi = 3.1441$ ln $\pi = 1.1455$ fi' = 1.617985637 [mn 1459.2; 5.236]
5. B 10.810	<b>6.68 fi' *</b>	[10 1/[log531] $\frac{xy^2}{xy^2}$ ] $\frac{xy^8}{xy^8}$	fi' = 1.618263473 [mn 1458.2; 5.237]
6. C 12.011	<b>ln(<u>al</u>5.2163); (10(1/e <math>\frac{xy^2}{xy^2}</math> ) <math>\frac{xy^8}{xy^8}</math> )</b> <b>ln(<u>al</u>(2 fi' <math>\frac{xy^2}{xy^2}</math> )) *</b>	ln[ <u>al</u> [0.01 <u>al</u> e']	e = 2.71736 $\pi = 3.1425$ ln $\pi = 1.145$ (fi' = 1.61497678) ln( <u>al</u> (2 fi' $\frac{xy^2}{xy^2}$ )) fi' = 1.617645078 [mn 1460; 5.234]
7. N 14.0067	<b>1.44835 <math>\frac{yx}{x^4} : 0.1 \pi</math></b> <b>5.35 fi' <math>\frac{xy^2}{xy^2}</math> *</b>		e = 2.706 $\pi = 3.1466$ ln $\pi = 1.1463$ fi' = 1.638842455 $\pi' = 3.145988$ fi' = 1.61804659 [mn 1459; 5.236]
8. O 15.9994	<b>ln (e'1) <math>\frac{xy^4}{xy^4}</math> *</b> <b>6 fi' <math>\frac{xy^2}{xy^2}</math> *</b>		e = 2.71818; $\pi = 3.1422$ ln $\pi = 1.1449$ fi' = 1.61728 [mn 1461.7; 5.23]
9. Fe 18.9994	<b>7 fi' <math>\frac{xy^2}{xy^2}</math></b> <b><math>\sqrt{223}</math> fi' *</b> <b>11.74 fi' *</b>	19.9994 = 360.977 n: fi' = 223/n : 223 =	fi' = 1.647248789 fi' = 1.61873184 fi' = 1.61834753 [mn 1458; 5.238]
10. Ne 20.17	<b>(e1) <math>\frac{xy^3}{xy^3}</math>;</b>	[log528] $\frac{xy^3}{xy^3}$ *	(fi' 1.62481) (log(200 fi' $\frac{xy^2}{xy^2}$ ) $\frac{yx^3}{yx^3}$ ) fi' = 1.61848093
11. Na 22.9898	<b><math>\sqrt{(200 \text{ fi}' \frac{xy^2}{xy^2})}</math> *</b> <b>14 fi' *</b>		fi' = 1.625624348 [mn 1431.9; 5.285] fi' = 1.642 [mn 1375.6; 5.392]
12. Mg 24.305	<b>15 fi' *</b>		fi' = 1.620333333 [mn 1451; 5.251]
13. Al 26.9815	<b>4 fi' <math>\frac{xy^4}{xy^4}</math></b>		fi' = 1.611578722 [mn 1482.5; 5.194]
14. Si 28.086	<b>(2 fi' <math>\frac{xy^2}{xy^2}</math> ) <math>\frac{xy^2}{xy^2}</math></b>		fi' = 1.627824104 [mns 1424; 5.30]
15. P 30.9738	<b>100(.5 fi' <math>\frac{x-1}{xy^4}</math> ) *</b> <b>19 fi' *</b>		fi' = 1.614267542 [mn 1472.6; 5.211] fi' = 1.6302 [mn 1416; 5.315]
16. S 32.06	<b>20 fi'</b>		fi' = 1.603 [mn 15145; 5.14]
17. Cl 34.453	<b>13 fi' <math>\frac{xy^2}{xy^2}</math> *</b>		fi' = 1.62752762 [mn 1424.4; 5.3]
18. Ar 39.948	<b><u>al</u> fi' *</b> <b>15 fi' <math>\frac{xy^2}{xy^2}</math> *</b>		fi' = 1.601495041 [mn 1520; 5.13] fi' = 1.631931371 [mn 1410; 5.326]
19. K 39.102	<b>15 fi' <math>\frac{xy^2}{xy^2}</math> *</b>		fi' = 1.614558763 [mn 1471.6; 5.214]
20. Ca 40.08	<b><u>al</u> fi'</b>		fi' = 1.602927713 [mn 1515; 5.14]

	<b>25 fi'</b> *		fi' = 1.632	[mn 1410 ; 5.327]
21. Sc 44.9559	<b>17 fi'</b> <u>xy2</u>		fi' = 1.62618109	[mn 1430 ; 5.289]
22. Ti 47.90	<b>18.3 fi'</b> <u>xy2</u>		fi' = 1.6178	[mn 1459.6 ; 5.235]
23. V 50.91	<b>31.5 fi'</b>		fi = 1.6234	[mn 1440; 5.27]
24. Cr 51.996	<b>20 fi'</b> <u>xy2</u> *		fi' = 1.612389531	[mn 1479.5 ; 5.20]
25. Mn 54.9380	<b>21 fi'</b> <u>xy2</u> *		fi' = 1.61743771	[mn 1461 ; 5.232]
26. Fe 55.847	<b>21 fi'</b> <u>xy2</u>		fi' = 1.630760851	[mn 1414 ; 5.319]
27. Co 58.9332	<b>22.5 fi'</b> <u>xy2</u>		Fi' = 1.61841	[mn 1457.6,5258]
28. Ni 58.71	<b>36 fi'</b>		e = 2.71433 π = 3.1436 lnπ = 1.1454 fi' = 1.63083334	[mn 1414 ; 5.32]
29. Cu 63.546	<b>24 fi'</b> <u>xy2</u>		fi' = 1.627190831	[mn 1426.4 ; 5.296]
30. Zn 65.37	<b>40 fi'</b>		fi' = 1.63425	[mn 1402 ; 5.34]
31. Ga 69.72	<b>43 fi'</b>		fi' = 1.621395349	[mn 1447 ; 5.258]
32. Ge 72.59	<b>500 fi</b> <u>x-1'</u> <u>yx4</u>		fi' = 1.620031	[mn 1451.8 ; 5.444]
33. As 74.9216	<b>46 fi'</b>		fi' = 1.628730435	[mn 1421 ; 5.31]
34. Se 78.96	<b>30 fi'</b> <u>xy2</u>		fi' = 1.622343983	[mn 1443.5 ; 5.264]
35. Br 79.090	<b>128 (fi' x-1)</b> <b>2 al fi'</b> <b>49 fi'</b>		fi' = 1.618401222 fi' = 1.601538525 fi' = 1.6140	[mn 1474; 5.21]
36. Kr 83.80	<b>32 fi'</b> <u>xy2</u>		fi' = 1.618255233	[mn 1458 ; 5.237]
37. Rb 85.467	<b>32 fi'</b> <u>xy2</u>		fi' = 1.634271627	[mn 1402 ; 5.34]
38. Sr 87.62	<b>54 x-1'</b>		fi' = 1.622592593	[mn 1442.7 ; 5.266]
39. Y 88.9059	<b>34 fi'</b> <u>x-1</u> <u>xy2</u>		fi' = 1.617058877	[mn 1452 ; 5.23]
40. Zr 91.22	<b>35 fi'</b> <u>xy2</u>		fi' = 1.61439949	[mn 1472 ; 5.21]
41. Nb 92.9064	<b>57 fi'</b>		fi' = 1.629936842	[mn 1417 ; 5.21]
42. Mo 95.94	<b>59 fi'</b>		fi' = 1.62610695	[mn 1458 ; 5.288]
43. Tc 98.9062	<b>61 fi'</b>		fi' = 1.621413115	[mn 1447 ; 5.26]
44. Ru 101.07	<b>39 fi'</b> <u>yx2</u>		fi' = 1.614835071	[mn 1459 ; 5.183]
45. Rh 102.9055	<b>39 fi'</b> <u>yx2</u>		fi' = 1.624377593	[mn 1436 ; 5.28]
46. Pd 106.4	<b>66 fi'</b>		fi' = 1.612121212	[mn 1480 ; 5.198]
47. Ag 107.868	<b>41 fi'</b> <u>yx2</u>		fi' = 1.62201302	[mn 1444.7 ; 5.262]
48. Cd 112.40	<b>43 fi'</b> <u>yx2</u>		fi' = 1.616772553	[mn 1463.5 ; 5.228]
49. In 114.82	<b>71 fi'</b>		fi' = 1.617183099	[mn 1462 ; 5.23]
50. Sn 118.69	<b>45 fi'</b> <u>yx2</u>		fi' = 1.624055281	[mn 1438 ; 5.275]
51. Sb 121.75	<b>75 fi'</b>		fi' = 1.6233333333	[mn 1440 ; 5.27]
52. Te 127.6	<b>79 fi'</b>		fi' = 1.615189873	[mn 1469 ; 5.22]
53. I 126.9045	<b>78 fi'</b>		fi' = 1.626980769	[mn 1427 ; 5.29]
54. Xe 131.3	<b>81 fi'</b>		fi' = 1.620987654	[mn 1448 ; 5.255]
55. Cs 132.9055	<b>82 fi'</b>		fi' = 1.62079878	[mn 1449 ; 5.254]
56. Ba 137.34	<b>85 fi'</b>		fi' = 1.61576706	[mn 1467 ; 5.22]
57. La 138.905	<b>20 fi'</b> <u>yx4</u> <b>53 fi'</b> <u>yx2</u>		fi' = 1.623386652 fi' = 1.618903659	[mn 1455.8 ; 5.24]
58. Ce 140.12	<b>87 fi'</b>		fi' = 1.610574713	[mn 1486 ; 5.19]
59. Pr 140.907	<b>87 fi'</b>		fi' = 1.61962069	[mn 1453 ; 5.246]
60. Nd 144.24	<b>55 fi'</b> <u>yx2</u>		fi' = 1.619427508	[mn 1454 ; 5.245]
61. Pm 145	<b>55 fi'</b> <u>yx2</u>		fi' = 1.623688282	[mn 1439 ; 5.273]
62. Sm 150.4	<b>93 fi'</b>		fi' = 1.617204301	[mn 1462 ; 5.23]
63. Eu 151.96	<b>58 fi'</b> <u>yx2</u>		fi' = 1.618641406	[mn 1457 ; 5.24]
64. Gd 157.25	<b>60 fi'</b> <u>yx2</u>		fi' = 1.618898803	[mn 1456 ; 5.24]
65. Tb 158.925	<b>61 fi'</b> <u>yx2</u>		fi' = 1.614102806	[mn 1473 ; 5.21]
66. Dy 162.50	<b>62 fi'</b> <u>yx2</u>		fi' = 1.618940315	[mn 1456 ; 5.24]
67. Ho 164.9309	<b>63 fi'</b> <u>yx2</u>		fi' = 1.61800828	[mn 1459 ; 5.236]
68. Er 167.26	<b>64 fi'</b> <u>yx2</u>		fi' = 1.616612972	[mn 1464 ; 5.227]
69. Tm 168.934	<b>104 fi'</b>		fi' = 1.624365385	[mn 1436 ; 5.277]
70. Yb 173.04	<b>66 fi'</b> <u>yx2</u>		fi' = 1.619202946	[mn 1454.7 ; 5.244]
71. Lu 174.97	<b>67 fi'</b> <u>yx2</u>		fi' = 1.616011305	[mn 1466 ; 5.223]

72. Hf 178.49	<b>68 fi'</b> $\frac{yx2}{}$		fi' = 1.620139791	[mn 1451 ; 5.25]
73. Ta 180.947	<b>69 fi'</b> $\frac{yx2}{}$		fi' = 1.619388863	[mn 1454 ; 5.24.5]
74. W 183.85	<b>70 fi'</b> $\frac{yx2}{}$		fi' = 1.6120625981	[mn 1449.7 ; 5.25]
75. Re 186.2	<b>115 fi'</b>		fi' = 1.619130435	[mn 1455 ; 5.243]
76. Os 190.2	<b>117 fi'</b>		fi' = 1.625641026	[mn 1432 ; 5.285]
77. Ir 192.22	<b>119 fi'</b>		fi' = 1.615294118	[mn 1469 ; 5.218]
78. Pt 195	<b>2π'</b> $\frac{yx4}{}$ <b>121 fi'</b>	e5.274	e=2.717 π = 3.1427 lnπ =1.1448 fi' = 1.62375 e(2 fi' $\frac{yx2}{}$ ) = fi' = 1.61231405	[mn 1480 ; 5.2]
79. Au 196.9665	<b>2 π'</b> $\frac{yx4}{}$ <b>122 fi'</b>	e5.28	(fi' = 1.6248) e(2fi' $\frac{yx2}{}$ ) fi' = 1.614479508	[mn 1471 ; 5.213]
80. Hg 200.59	<b>124 fi'</b>		fi' = 1.61766129	[mn 1460 ; 5.234]
81. Tl 204.34	<b>78 fi'</b> $\frac{yx2}{}$		fi' = 1.618562198	[mn 1457 ; 5.24]
82. Pb 207.2	<b>128 fi'</b>		fi' = 1.61875	[mn 1456.4 ; 5.24]
83. Bi 208.9806	<b>129 fi'</b>		fi' = 1.620004651	[mn 1452 ; 5.249]
84. Po 209	<b>129 fi'</b>		fi' = 1.620155039	[mn 1451 ; 5.25]
85. At 210	<b>130 fi'</b>		fi' = 1.615384615	[mn 1468.6 ; 5.22]
86. Rn 222	<b>137 fi'</b>		fi' = 1.620437956	[mn 1450 ; 5.25]
87. Fr 223	<b>138 fi'</b>		fi' = 1.615942029	[mn 1466 ; 5.22]
88. Ra 226	<b>140 fi'</b>		fi' = 1.614285714	[mn 1472.6 ; 5.21]
89. Ac 227	<b>140 fi'</b>		fi' = 1.621428571	[mn 1446.8 ; 5.258]
90. Th 232	<b>143 fi'</b>		fi' = 1.622377622	[mn 1443.4 ; 5.264]
91. 231.035	<b>143 fi'</b>		fi' = 1.615629371	[mn 1467.7 ; 5.22]
92. 238.029	<b>147 fi'</b>		fi' = 1.619244898	[mn 1454.6 ; 5.244]
93. Ne 2370.48	<b>147 fi'</b>		fi' = 1.612571429	[mn 1479 ; 5.20]
94. Pu 224	<b>138 fi'</b>		fi' = 1.623188406	[mn 1440 ; 5.27]
95. Am 243	<b>150 fi'</b>		fi' = 1.62	[mn 1440.5 ; 5.25]
96. Cm 247	<b>153 fi'</b>		fi' = 1.614379085	[mn 1472 ; 5.21]
97. Bk 247	<b>153 fi'</b>		fi' = 1.614379085	[mn 1472 ; 5.21]
98. Cf 251	<b>155 fi'</b>		fi' = 1.619354839	[mn 1454 ; 5.24]
99. Es 254	<b>157 fi'</b>		fi' = 1.617834395	[mn 1460 ; 5.23]
100. Fm 257	<b>159 fi'</b>		fi' = 1.616352201	[mn 1465 ; 5.225]
101 Md 256	<b>158 fi'</b>		fi' = 1.620253165	[mn 1451 ; 5.25]
102 No 254	<b>157 fi'</b>		fi' = 1.617834359	[mn 1460 ; 5.235]
103 Lr? 255/265			fi' = 1.618033989	[mn 1458 & 5.236]
104-109?				

### CALCULATION OF TRANSCENDENTAL NUMBERS e = 2.7182818... en fi = 1.618033...

$$e = 1 + [1!] \frac{x-1}{} + [2!] \frac{x-1}{} + [3!] \frac{x-1}{} + [4!] \frac{x-1}{} + [5!] \frac{x-1}{} + [6!] \frac{x-1}{} + [7!] \frac{x-1}{} + [8!] \frac{x-1}{} + [9!] \frac{x-1}{} + [10!] \frac{x-1}{} \dots = 2.718281828$$

$$\begin{aligned}
1 + &= \dots\dots\dots = 1.0000000000000000 = 1.0000000 + \\
[1] \frac{x-1}{} &= [1x1] \frac{x-1}{} = 1.0000000000000000 = 2.0000000 + \\
[2] \frac{x-1}{} &= [1x2] \frac{x-1}{} = 0.5000000000000000 = 2.5000000 + \\
[3] \frac{x-1}{} &= [1x2x3] \frac{x-1}{} = 0.1666666666600000 = 2.6666666 + \\
[4] \frac{x-1}{} &= [1x2x3x4] \frac{x-1}{} = 0.0416666666666666 = 2.7083333 + \\
[5] \frac{x-1}{} &= [1x2x3x4x5] \frac{x-1}{} = 0.0001388888888888 = 2.7180555 + \\
[7] \frac{x-1}{} &= [1x2x3x4x5x6x7] \frac{x-1}{} = 0.00001984122698400 = 2.718253968 + \\
[8] \frac{x-1}{} &= [1x2x3x4x5x6x7x8] \frac{x-1}{} = 0.00000248015873000 = 2.71827877 + \\
[9] \frac{x-1}{} &= [1x2x3x4x5x6x7x8x9] \frac{x-1}{} = 0.00000027557319220 = 2.718281526 + \\
[10] \frac{x-1}{} &= [1x2x3x4x5x6x7x8x9x10] \frac{x-1}{} = 0.00000002755731922 = 2.718281801 + \\
[11] \frac{x-1}{} &= [1x2x3x4x5x6x7x8x9x10x11] \frac{x-1}{} = 0.00000002505210839 = 2.718281826 + \\
[12] \frac{x-1}{} &= [1x2x3x4x5x6x7x8x9x10x11x12] \frac{x-1}{} = 0.00000000208767990 = 2.71828182818 = e
\end{aligned}$$

**Fi** = 1.618033... symbol of the divine proportion in the Fibonacci series 1;2;3;5;8;13;21;34;55..

$$\begin{aligned}
[8 : 5] &= 1.600000000; [13 : 8] = 1.6250000; [21 : 13] = 1.615384615; \\
[34 : 21] &= 1.619047600; [55 : 34] = 1.6176471; [89 : 55] = 1.6181818; \\
[144 : 89] &= 1.617977528; [233 : 144] = 1.6180555; [377 : 233] = 1.618025751; \\
[\sqrt{5}+1] : 2 &= \dots\dots\dots = 1.618033895... = fi
\end{aligned}$$

**Postscript:**

The e, π, fi' trinity and the meta-numbers 1448 & 528 transmit the significance of three realms:

1. the physical or natural realm;
2. the metaphysical or moral realm;
3. the transcendental or divine realm.

These metaphysical numbers and the mn reveal an orderly, mathematical and transcendental cohesion. This can be understood and translated as one harmonic cosmic sound-impulse resonating and vibrating the substance and mass of matter originating in Light, that is Gods Word: "Let there be light"... This divine harmonic impulse connects, binds and unifies the entire cosmos to itself and all the elements reciprocally and with the divine Being [ESSE]. This Harmony of harmonies is the Light that contains all. Light is father and mother of all, light is the root of all and light is the life-force and the sympathy or love-force and the destiny of all or eschatology of all that really is. Light is from light,

$C = (E7(\ln al\ 14.4865)_{x-1})$	$= 299792.55\text{ km/sec}$
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truth is from truth, life is from life, and God is from God, who is the transcendent Person who truly is, He who created man (the man-person) in matter, in whom resonates the Person [persono = resonating] through his Word, -divine laws- and who elevates created men-persons by enlightening them as to their origin and ultimate destiny.

One Person-Man has said: "I am the Way, the Truth and the Life" (Joh 14.6), that is He whose life is quantified in light, c, and manifest through i, and whose initials are **I.C.**

This is the result of the inspiration received by the author in 1977; from it Metapontum and the Theomathesis have playfully issued forth.

#5 Mass	Me	5.485930 <sup>E</sup> -4 amu	Atomic mass unit
New formula	$(al\ al\ al(-0.1448\ x\ 2))_{x-1}$ each atomic mass-unit	5.48593003 <sup>E</sup> -04 answers	$(al\ al\ al(-0.1448069784\ x\ 2))_{x-1}$ to this formula!

	Gospel of Saint John 21. 11	153 fish...	$al$ = the anti 10 logarithm of y
Formula	$(\sqrt{\sqrt{((al\ al\ al(-0.1448\ x\ 2)) : E3)_{x-1}})} = 153$		

Hans Theodor Frenkel  
Oss, 1<sup>st</sup> of July 2007