

PYTHAGORAS

AND THE

QUANTUM WORLD

Volume I I I

Enneagram

Ben Iverson & Carl Elkins

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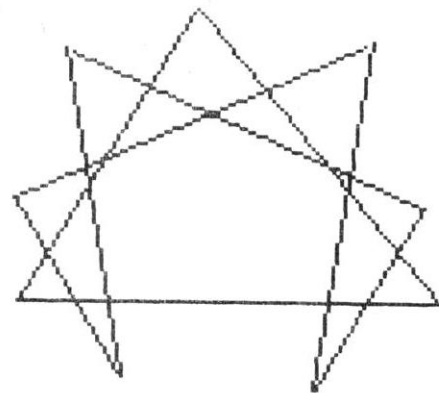
Volume I I I

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Printed by: Delta Spectrum Research
921 Sante Fé Avenue
La Junta, Colorado, 2006

Publisher: Delta Spectrum Research
La Junta, Colorado

ESBN 1-883401-03-0

ENNEAGRAM



INTRODUCTION

One should have read, (studied) Volumes I & 2, before attempting this book, Volume 3. This book should be easier reading. Volume 3 begins with a quick review of Volume I in the first chapters. There are certain essentials which the reader must remember to observe.

This Third Book is written from the viewpoint of 1995 - '96. Parts of this Edition will be quite different from that which is found in the early volumes. Some subject matter will be extended here, and some subjects will be quite abbreviated. New subjects will be introduced after chapter 5.

The simple existence of Quantum Arithmetic tends to support the idea of ancient civilizations, and the legendary feats they could perform. The sophistication and rigor which is achievable in Quantum Arithmetic points toward the Atlantean Civilization of 12,000 years ago. Most of their literature was destroyed while it lay in the library of Alexandria. We cannot reclaim those 600,000 to one million volumes which were burned. We do have several surviving pieces such as the Rhind Mathematical Papyrus, The Egyptian Leather Roll, the Moscow Papyrus and a few others. We also have the recovered portions of Euclid's Geometry. Several others have survived to give us confidence that Quantum Arithmetic is on the right track.

Quantum Arithmetic seems to start out with ordinary math. It leads us on a far different path to Quantum Numbers used by nature. These numbers take on whole new and different meaning in a scientific context. It continually branches out to cover all areas of current math practices and belief, disproving some of those beliefs. There are other branches which reach into entirely new areas. Many of these new areas will occupy researchers for decades.

These three volumes of *Pythagoras And The Quantum World* break precedence with the past. It tries to avoid "in-house" cliches and cryptic terms and symbols, in order to make it more understandable to the layman.

Attempts are made to make this presentable to high school students, however many professional mathematicians will find Quantum Arithmetic very difficult to follow, because there is so very much to unlearn first.

Conventional mathematics is an invented device. Quantum Arithmetic is entirely Natural Math as nearly as it can be understood. There is no invention except to correlate it with contemporary mathematics. Professional mathematicians find they must discard some of their learning before they will be able to understand Quantum Arithmetic.

The previous proofs of Quantum Arithmetic take Number theory and turns it into Number Law. A better understanding about prime numbers allows one to form solid proofs of the theories of Number Theory. This leads to adding other features which extend the Law. Many of the patent problems in conventional mathematics are solved. Other problems such as "Fermat's Last Theorem" begin to show the proper solution, but has not been solved nor has this problem been attempted. The famous "Cattle Problem" of Archimedes is solved physically and application is made in a surprising way.

Euclid's Lemma that any number is factorable, in only one way, into its prime factors will continue to be a lemma, until proved otherwise. It holds up as fact under Quantum Arithmetic.

In the case of "Fermat's Last Theorem", the sum of two squares, one even and one odd, will be an odd square. The extension of this to third dimension is "The sum of three cubes can be equal to the cube of a fourth integer".

$$\text{e.g. } (3^2 + 4^2 = 5^2) \text{ and } (3^3 + 4^3 + 5^3 = 6^3)$$

The resolution of this latter equation is made at the end of this book.

This does not solve the problem but it does give us an indication which leads to solu-

tions. Dr. Elkins adds information about 3rd dimension and cubes. This is rather astounding in the possibilities of its application.

In trigonometry, the features and transpositions are the same except that $\tan = F/C$, or $\tan = ab/2de$. $\sin = F/G$ or $\sin = ab/(d + e) = b$. All trigonometric formulae are transposable into any trigonometric function through the roots of the integers involved and the relationships between the roots. Trigonometry still applies in Quantum Arithmetic but the usage of it is changed in the terms used. The use of trigonometric tables is unnecessary because the actual, absolute values, are used. The fractions include all of the implied decimal digits and are equivalent to using one hundred place tables.

On the other hand, the use of calculus is obsolete. It is replaced by computer program "Quantize" which appears in Volume II. One will work with relative (or true) Quantum Numbers.

These three volumes of *Pythagoras And The Quantum World* should be accompanied by the three textbooks on Quantum Arithmetic which are entitled, *QA-1*, *QA-2*, and *QA-3*. They are the text book versions introducing Quantum Arithmetic. The QA books are intended as graduated beginner text books. They do not contain the proofs, which will be found only in *Pythagoras And The Quantum World*, with a more technical description. The two versions do not run in exact parallel but in general, *QA-2* and *QA-3* will go with these current volumes. It is recommended the reader has studied all of the previous texts and volumes, which contains many of the details which are not included in Volume III.

THE DEVELOPMENT OF QUANTUM ARITHMETIC

Quantum Arithmetic is not just a "flash-in-the-pan" as have been so many alternative ways of teaching invented mathematics. It is the natural mathematics which was used 10,000 years ago, and will again become the mathematics which our civilization will develop and use. This use will not occur over night. It may take many years to get it incorporated

uniformly into our schools, or it could happen soon.

It is presently being incorporated into our advanced sciences, and technology. It is the foundation on which science will advance. Quantum Arithmetic does not preclude the use of present invented mathematics. Invented mathematics will continue in commercial use and Quantum Arithmetic will be an adjunct to it for science.

The reader will be interested in the history of Quantum Arithmetic which has been under research for more than 50 years. That research has been spiritually inspired and guided for that entire time. This occurred with the present author but, also with others who will be joining the work. Partly for this reason Quantum Arithmetic is essentially a non-profit venture. Many thousands of dollars of private funding have gone into this research, which can never be recovered, nor will it be recovered. That is not to say that others cannot make reasonable financial gain, but it cannot be done at the sacrifice of the truth of this knowledge. A profit must be accompanied by a balance in all factors involved.

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In this Volume III the reader will be introduced to Dr. Carl Elkins, who has also been doing advanced independent research for many years. It is found that his work is a natural extension of basic Quantum Arithmetic, without having knowledge that this prior Quantum Arithmetic existed. His report carries into the Third Dimension with definite applications involving the torus. With that, every reader will be challenged to the limit of their mental ability.

There are also others who are standing in the wings, ready to proceed with their own improvements and areas of interest. Many readers, world wide, have acclaimed Quantum Arithmetic. It is due to these ardent supporters that Quantum Arithmetic has reached the

stage at which we find it today. There are supporters in every state in the union, most provinces in Canada, and all major countries in the world. Many of these supporters who have read these books, have become researchers to extend our knowledge of Quantum Arithmetic, and I wish them well. Advanced scientists are beginning to apply this material to their work, and are meeting with success. These people have all been helpful to me in extending and improving my understanding of Quantum Arithmetic. That help is very much appreciated. I also want to extend thanks to Dr. Carl El-



kins for sharing his discoveries which incorporate the 9-pointed enneagram of Pythagoras.

This brings us to a discovery in which new places where Quantum Arithmetic can be applied. The drawing at the right appeared in Volume 2, on page 137 of this series. The drawing was first produced by Dobrinka Alexandrova, in Bulgaria.

Now comes word from a researcher in the field of Sacred Geometry, that he recognizes this figure as furnishing the background by which we can make an evaluation of the geometry of the "Face on Mars". The reader may expect more information on this and its additional relationships to the numerous "Wood Henges" and "Stone Henges" and other megalithic structures in Europe as investigated more than 30 years ago by Lyle B. Borst, while at the State University of New York, Buffalo.

WELCOME TO QUANTUM ARITHMETIC

Anyone who would like to continue in extending this research, please contact the author. There are many sub areas within this field, where much additional detail can be discovered. Leads can be furnished, and additional help will be appreciated. The field is wide open for further independent research. The subject needs to be, and is being extended to the Third Dimension applications. The previous material has advanced, in these present books, to the Third Dimension in only a very few places.

Volume 4 will eventually give a **phenomenal** magic square, which will lead the way to enneagram applications, which are almost beyond belief, in the areas which we now refer to as "metaphysical". Such an extended system of magic squares is one of the keys to great advancement in science, and will double our scientific knowledge, without making it more complicated. Magic Squares will be approached through the enneagrams. Simply showing this special Magic Square will leave anyone in awe, that the arrangement of such complex fields of numbers has even been discovered.

On the other hand, time will not be wasted in countering detractors of these books. If anyone has negative comment, it is recommended that they re-read the material, or forget the idea completely. The books defend themselves. However, the author will try to assist anyone, (especially the younger generation), who needs the help and asks for it. -

Ben Iverson, - Author

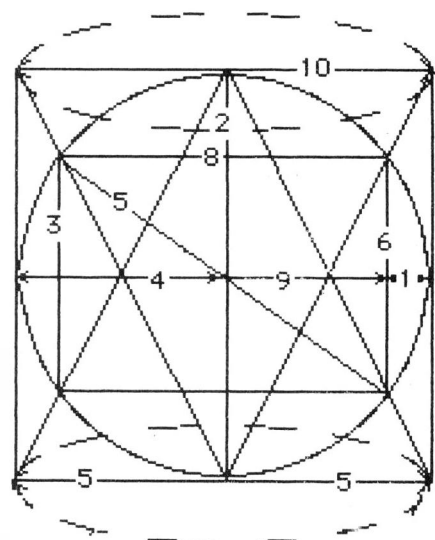


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The first thing to learn and know is that science is a single thing which starts with understanding. That single thing is ENERGY -- A vibration of the æther. When one accepts this one has made a start on the narrow path.

The aboriginal vibration is on the order of a quadrillion vibrations per second. It immediately brings in the 2-way division of number and of vibration, in the Law of Opposites which we can call "male and female". As the vibrations start with harmony they form into lower values called "Myriads". Matter is in the fourth Myriad. Music is in the sixth Myriad.

We are told, "The Gate is narrow, and the path is straight." As we follow the path, we find that it is as narrow as the sharp edge of a knife, we come to additional "gates" leading to paths, which are also straight and narrow.

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The beginning is in the calculating and organizing of the integers for each prime Pythagorean triangle into a block of 16 or 20 related numerical values. There are four root numbers for each triangle, which are all prime to each other. Roots have been given the designation of "b, e, d, & a". They are "Sum and Difference" numbers as Euclid defined them. They are easily found in every right triangle and every ellipse. But in the non-quantum figures they are seldom integers. Quantum Arithmetic uses computer program "Quantize" to reduce them to Quantum status, as integers. Once converted any problem can be solved through Quantum Arithmetic. In the process, a coefficient is found which can be used to convert back to conventional measures, at any time.

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This begins a series of five chapters of exploration into the Metaphysical Myriad. Research must take a different tack because we have almost no empirical data, and must build a whole new data base. The development of Quantum Arithmetic becomes part of that data base. Anyone must agree that the Quantum Arithmetic results are positive indicators. The Spirit World, has come together to help, giving technical answers to questions far above our present science. Five unrelated spiritual experiences are given.

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"Listen to the Children" is a bit of very good advice. I was able to put things in some sort of perspective. It appears that parents of young children should tread lightly in correcting their offspring. By the time children have come to terms with their memories and have developed a knowledge of the basic arithmetic of addition and multiplication, they are ready to begin study in earnest.

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The bottom line data to go into our data bank are parameters which are common to all Myriads, placing them into a common context, with a few minor reservations. They can be applied to explain some daily scientific problems we encounter. Nature has set up a system of cataloging everything created and keeping each part of it unique from all else. That is one thing which Quantum Arithmetic explains.

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In this chapter, Dr. Carl Elkins introduces us to the third dimension which is a natural progression in Quantum Arithmetic. He developed it over a period of years, completely unaware I was developing the first and second dimensions of Quantum Arithmetic. With this we make a "Quantum Leap" into the future as he introduces the "enneagrams". This is only a bare introduction, but he promises to have much, much more to write in a future volume of this series.

Chapter 1

The Straight and Narrow Path of Science

Science requires we follow the straight and narrow way to gaining knowledge. The way to get on the path of science is through mathematics. The first thing to learn and know is that science is a single thing which starts with understanding. That single thing is ENERGY. A vibration of the æther.

We study energy and learn about it through mathematics. Energy is simply a vibration. A single energy is a single vibration. And that is where the path to knowledge starts. An ordered array of the Prime Pythagorean Triangles introduces us to a way to sort out single energies. That single energy is assigned its unique number which is a series of prime numbers making it unique from all other vibrations. To make this more understandable, we shall start with considering that number to represent a wavelength.

The first energy wavelength is approximately one vibration in one, four quadrillionth of a second. That is, it is $1/4,000,000,000,000,000$. But the first viable and useable energy cannot exist alone. It must have a Quantum Number value including 2, joined by a vibration of 3 and often a vibration of 5 and/or 7. The basic beginning, which we seldom come across it in its aboriginal form is 1, 1, 2, 3, having a product of 6 for the first Creative Quantum Number

The roots of a "female" vibration begin and end with even numbers. The Female aboriginal number is 2, 1, 3, 4. The roots of a "male" vibration begin and end with odd numbers. When anything is assigned a Quantum Number, it always includes a 2 and a 3. 1, 1, 2, 3 is the aboriginal male vibration.

We usually start with a wave which has the number 2, 3, 5, 8, having a product of 240, but even that is stripped down to its bare mathe-

matical essentials. To be a viable and useable energy it must have a number which involves three to five prime numbers along with factors of 2 and 3. That is, it must have a total of 5 to 7 prime numbers, and never more than 7 prime numbers. 3, 7, 10, 17 has five,- 2, 3, 5, 7, & 17 as prime factors.

MYRIADS:

To move ahead a bit, there are seven myriads of energy of which we know nothing of the first or top, (Creative), Myriad, and very little of the second (Metaphysical), Myriad.

We do understand the third, (Electromagnetic), Myriad through eyesight. It is the Myriad in which Light is the middle octave of seven octaves, and is manifest in our eyesight. Each Myriad contains exactly seven octaves. Here, there are 3 octaves below light and 3 octaves above light. The number of frequencies per octave varies from 4 to 10,000.

The fourth Myriad is the Myriad of Chemistry, in which Matter is created by energy. It, also contains seven octaves, (or Periods) in what we call the "Periodic Table of Elements". Matter is created by male electrons and female protons of energy.

Below Matter is the fifth Myriad of Ultra-Sound. We have little solid data on this Myriad because it is not sensed directly. It is presumed to consist of seven octaves, and each octave consists of a series of Quantum energy vibrations. We do know that these individual energy vibrations can be joined together. When they are so joined, harmonically, they will create a single tone in the sixth Myriad.

The sixth myriad, is Sound, of which Music is a major component. The Third, Fourth and Sixth Myriads are all that we can sense direct-

ly - (Music, Matter & Colors of Light). This Myriad of Sound is divided into seven octaves in which each octave is double the frequency of the one below it. Here we find a correlation between the major chord C, F, A, C, in an octave, and the four primary colors in the visible light octave in the E/M Myriad, being red, yellow, green and blue. In which blue is double the frequency of red.

The seventh Myriad is Sub-Sound having frequencies from about one vibration per second to something less than 32 vibrations per second. The lower frequencies in this Myriad are in the same range as our brain waves. As such, they are very important to our emotional feelings

We are told, "The Gate is narrow, and the path is straight." As we follow the path we find, that it is as narrow as the sharp edge of a knife, we come to additional "gates" leading to paths, which are also straight and narrow. (In Chapter 14 we get a better definition of a Myriad in relation to numbers.)

VIBRATIONS IN A MYRIAD;

Each single vibration can be related to a single Prime Pythagorean Triangle. When we have absorbed this, the Path leads us to the Quantum Ellipse for another gate and a path beyond. Each Prime Pythagorean triangle is related to a specific Quantum ellipse. This ellipse will further define and describe a single vibration. It is much easier to relate a Quantum Ellipse to a given physical reality, than with the triangle. In our case, it relates to what appears to be a single vibration, but is actually a combination of five to seven even smaller vibrations which generate this ellipse. They are commonly termed, "harmonic" frequencies. The vibration may be (1) the tone of a musical tone, or it can be (2) the energy state of an electron of an atom. it can be (3) the specific quantum color of a beam of light. (4) it could be a single musical tone. It all depends upon which Myriad we are concerned with at the time.

We may take any one of these four "gates", but it is most appropriate. to take the gate into music because we understand the full seven

octaves. In the case of matter and electrons. There are also seven octaves in the Periodic Table of Elements, but much of our knowledge is tied up in theory. It would be inappropriate to take the Myriad of Light because we have only one of the seven octaves.

Although the Myriad of Sound energy is one Myriad, it extends upward into the Myriad of Ultra Sound. It also extends downward into the Seventh Myriad which is Sub-Sound in which the frequencies reach from about 30 vibrations per second down to less than one vibration per second. It is very potent in emotionalism and brain functions. So we learn to extrapolate, from one Myriad to another, as we travel down this straight and narrow path, when and where extrapolation is valid. We must remember there is change ratio of perhaps 10,000 fold in the unit of measure which applies.

The Sub-sound Myriad is important to us because it contains frequencies in the same range as our brain and nervous system. It is also this range of frequencies which control our emotions. (But it is not the range of our thought energy which falls above the Myriad of Light.) These low frequencies are created by the tremolo of music as the beat between two musical tones.

Once we understand the mathematical rules which apply to the seven octaves in the Myriad of Music, we find that certain of these rules also apply to the other Myriads. In this 'feature we learn where to look in the other Myriads for certain previously demonstrated rules which were found in Music.

One of the things we learn about music, is that only certain tone frequencies in any Myriad, will operate together in harmony. We also learn that certain number values segregate themselves in the hierarchy, within any Myriad. Only one thing is changed. A different unit-of-measure is used, but the number values remain exactly the same, (1 to 10,000), in this new unit-of-measure.

This "Straight and Narrow Path", has brought us through the Prime Triangles, to the Quantum Ellipse, to the range of the full Myri-

ad of Music and sound'. This is the mathematics of the "Straight and Narrow Path". We are ready to make the scientific discoveries within the Myriad of Music.

But let us first define the Myriad. The word comes from the Greek usage in which the "Myriad" runs from One, to Ten Thousand. All values are in integers. It is not allowed to add or subtract a decimal part of any integer. To do so would carry us off the Path and into the chaotic non-quantum values. In this domain, the prime numbers will rule. Prime numbers will maintain a unique difference between any two Quantum Numbers in any Myriad.

Chapter 2

The Basic Beginning

Quantum Arithmetic should not be the mystery with which we started in Volume 1. But there are some parts which the reader has not melded with the rest of Quantum Arithmetic. This chapter should help on that score. It starts with the beginning of the straight and narrow way. (Shown in Table I in the appendix of this book). That beginning was in the calculating and organizing of the integers for each prime Pythagorean triangle into a block of 16 or 20 numerical values. Each of these blocks fell into an increasing numerical sequence for the root "b" in vertical lines, in columns across the page. There are also increasing values for root "e" in the horizontal lines across the page.

The growth of Quantum Arithmetic begins with the investigation of the great number of prime Pythagorean triangles. In the beginning of accepted (male), triangles, each has a base dimension which is divisible by four. Each altitude is an odd number for male triangles, and an even ($8n$) number for the female triangles.

Each triangle can be tested in that the sum of the squares of the base and altitude will equal the square of the hypotenuse. This further restricts the number of right triangles which apply to Quantum Arithmetic. It appears that ultimately there are only about 10,000 such triangles which meet the requirements. We are specially concerned with the first 5040 triangles. The number 5040 is the "magic" number which is equal to 7 or $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7$.

Every such triangle has four root numbers which are all prime to each other. These have been given the designation of "b, e, d, & a" and are arranged in such order that $b + e = d$, and $e + d = a$. In other words they fall in Fibonacci configuration.

THE QUANTUM NUMBER

The Quantum Number of a thing or of an action can be considered as these four root numbers; Or it can be considered as the single integer which is the product of these four numbers; Or it can be considered as the 5 to 7 prime numbers which form "b, e, d, a"; Or it can be the product of these five to seven prime numbers. In Nature, these are all the same number.

The roots, "b, e, d, a", are found from the Pythagorean triangle as:

The value of "b" is the square root of the difference between the hypotenuse and the base.

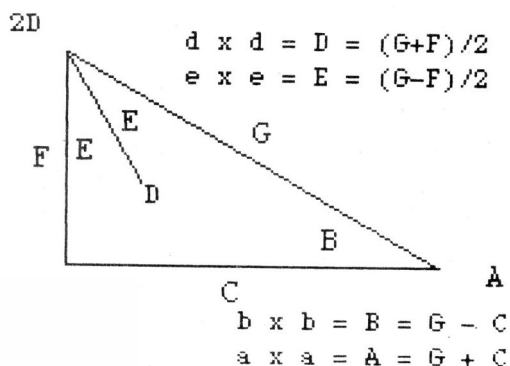
The value of "a" is the square root of the sum of the hypotenuse and the base

The value of "e" is the square root of half the difference between the hypotenuse and the altitude.

"d" is the square root of half the sum of the hypotenuse and the altitude.

They meet the requirement which was set out by Fibonacci, but they actually derive from Euclid's definition and tell us much more from that source. They are "Sum and Difference" numbers as Euclid defined them. The first and last are the difference and the sum of the two intermediate numbers of the four. Alternatively, the two intermediate numbers are the mean and the variation of the two extremes, as they are used statistically. Their squares are the mean and variation of the hypotenuse and altitude of a prime right triangle.

So this is the source of the four roots. They are the basis of every mathematical problem.



These roots can also be found directly in every ellipse. They apply to circles and to squares and to equilateral and isosceles triangles. These four roots apply to every thing and every action. Because the numbers are uniquely prime, they are unique, and the thing or action is defined mathematically.

It is possible to convert conventional mathematical values to this form of arithmetic. This conversion is done through the computer program, "QUANTIZE", which was introduced in Volume 2 and, also in QA -3 as an appendix. This program gives the number as a Quantum Number. Program Quantize also gives a conversion factor for the ratio between the Quantum Number and the conventional numbering, allowing one to change back and forth between the two kinds of mathematics. One can then perform calculations, which today, are impossible.

Knowing the Earth orbit, any grade school student will be able to determine the exact distance from Earth to Sun at any point in time they want. It really cannot be done that simply in the math which is being taught today. Since every set of four roots will contain the numbers two and three, that means that five, out of every six number combinations are not used for these number combinations. They were excluded from the blocks of Table 1.

I will attempt to give a picture of how Quantum Numbers are formed, and what they mean. It begins with the great number of Prime Pythagorean Triangles. As explained above the Quantum Number of a thing is derived from the sum and difference of the hypotenuse from the other two sides of a trian-

gle. It consists of four integers, of which the two center ones are prime to each other and the remaining ones are the sum and difference of these two.

According to Euclid's proof, all four numbers will be prime to the two center numbers. Using this primeness, every set of four integers will be unique and distinguishable from every other set. That is the basis upon which the whole arrangement of creation is set, in order to maintain everything related to everything else, but yet unique from each other.

In the previous work, only the odd values were shown for the values of b. There was a second stage in which only the even numbered integers were used for root "b". (These two tables should be combined, as they are given in Table 2 in appendix b in this book.) The first was for the conventional male triangles, and the second was for unconventional female triangles. These two tables are combined here, because Table. 2 will be recalled several times in the first part of this volume.

The separation of these two tables, in the first place, was a concession to conventional mathematics since the conventional mathematics did not consider the female triangles of any consequence. They are tremendously important in Quantum Arithmetic and comprise half of the subject. As this subject advances we find that the female triangles must be included in the table in order to cover the full scope, as far as we go.

So the first reference is that the reader should review this table as it is given here. Particularly note the recurrence of integers from their first use, in other blocks in the table. It is the recurrence of numbers which ties the table together in many different ways for different geometric figures. All quantum numbers are unique, but they are also related to each other. The table then demonstrates a comprehensive web of interrelationships, as it ties the whole table together. There are perhaps 100 different ways to check this table.

This table is important in another way. At the end of this book, in the last chapters, the

table is generated by using only the four roots, and combining them into groupings of nine. This creates the Third dimension, which will become immensely important in the times ahead. Dr. Carl Elkins explains their usage and application.

TABLE 2 in appendix B, has been checked, but it should be further checked by the reader. The first check, which was applied, was that $Y + F = W$. Since W was derived from $W = de + K$ and the "de" can be taken as $C/2$, the formula $W = F + Y$ checks K from the ellipse, and also checks C and the roots a , b , and d & e . It also checks W , F , Y , and K . If there is an error in any one of these ten entries it will show up in the check of $F + Y = W$. That simple check will check half of the entries in each block of the table.

TABLE 2 depends only on two variables. These are the first two integers on the first line of each block. They are designated as "b", & "e". The value of "b" begins with 1 and runs through 11 across the pages. The value of "e" also starts with a value of 1 and continues down the page to 7. After these values are entered in all four pages, the next two values are added in the top line of each block. These are "d" which is $d = b + e$, and $a = e + d$.

The next operation is to calculate the four values in the second line of each block. They are B , E , D , and A as squares of b , e , d , and a , respectively.

The remaining operations should enter the value of each entry in all blocks of the table. The legend is given on the top left corner of the first page. So the value of $C = 2de$, is added to line three of every block. When that is finished the following entries are completed in all blocks:

$F = ab$, is the second entry on the third line of every block.

$G = D + E$ is the third entry on the third line of every block.

$L = abde/6$ is the fourth entry on the third line of every block.

The fourth line of all blocks are H , I , J , and K , which the legend says are related to circles

and ellipses. They are entered in the order of:

$H = C + F$ for the first entry on the fourth line.

$I = C - F$ or $F - C$ giving the absolute value, (positive value), of the difference between H & I , for the second entry of the fourth line.

$J = bd$, is the perigee of an ellipse for the third entry on the fourth line.

$K = ad$, is the apogee of an ellipse for the fourth entry in the fourth line.

This completes sixteen entries on Table 1, leaving only four more to calculate in the fifth line of each block, for the remaining four entries. These all pertain to the Equilateral and isosceles triangles. If any previous entry was changed in a given block, the entries of W , F , Y , and Z will change in that block.

These are W , F , Y , and Z and are measurements of prime equilateral triangles. They are:

$W = C/2 + K$, or $= de + K$ for the sides of an equilateral triangle.

$F = F$, (from above) for one division of the base, and

$Y = C + E$, for the other division of the base of the triangle. One can see that $Y + F$ must equal the side of this triangle, or $Y + F = W$. This provides an interim check on most calculations up to this point.

The twentieth and last entry is the length of the line which will divide the triangle. It is $Z = G + C/2$, or $Z = G + de$.

This last line provides a check on many of the other identities which were first entered in the Table. If $W = F + Y$ then an error may have been made in one or more of the roots; In the value of E , C , F , G , or K . So in this check in the last line, one will see if $W = F + Y$. These other values are checked as well.

IT IS IMPORTANT THAT THE FORMULAE FOR THESE TWENTY IDENTITIES BE MEMORIZED BECAUSE IT WILL AID GREATLY IN BEING ABLE TO MORE EASILY FOLLOW THE REST OF THE TEXT IN QUANTUM ARITHMETIC.

Once the organization of this table is memorized, the reader will have made the biggest step. This is probably the most important part of learning Quantum Arithmetic. The best way to memorize this table is to re-do the table on scratch paper, just as it is described on the preceding pages. After each identity is entered in every block it should be compared with the table as given. Then the scratch paper can be discarded.

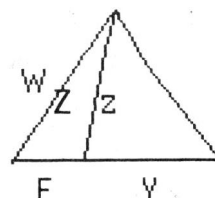
It may be that errors are found in that you do not agree with the printed table. It will then be necessary to redo that specific block. If your work checks out, then check the printed table itself. It is possible that an error has been made in the printed table, particularly in certain identities of Table 2, which are not covered in the overall check from the fifth line. The main check is that W was derived as $W = K + de$; $Y = C + E$, F is given in above and $Y + F = W$.

In the case of " Z ", it must be less than " W ", and it must be greater than F or Y . But actually, other checks were applied, but they are more complex. One check was to see that H squared minus I squared = $2 G$ squared. These squares are not given in the Table. Another check was to see that the number values ran serially in the lines and in the columns. Another was to check that the number values were in correct proportion with others in the same block. Another check could be that H squared minus 1 squared = $48 L$.

Another simple check is to see that any identity progresses by a certain number series. Each identity has a certain, sometimes complex, number progression in various directions including: on the horizontal, or vertical, or diagonal. Some of them which progress in the shape of the move of a knight in chess. The values of J and K will be pellian numbers, being d squared - $de = J$, and d squared + $de = K$. These progressions are often a number series which originally was found in conventional mathematics, but many progressions turn out to be an entirely new, unnamed number series. The Koenig Series is one of these.

When the formulae for these twenty identi-

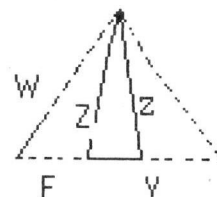
ties are memorized, the proofs which were given in the first two volumes will also begin to fall into place. Also, we will soon be going into the third dimension of solids and into dynamics in which the certain group of related numbers in one block, are intimately related to other nearby blocks. All the numbers in any given block are inter-related to other blocks,



and all blocks are related to all other blocks. The blocks will present a cycle, and present a moving picture of the number system in operation. Astounding things will happen which are not presently accounted for in conventional mathematics or physics.

If the reader has studied Volume 1 and Volume 2, but found them very difficult, the above practice with scratch paper will be found to be very helpful in understanding these prior volumes.

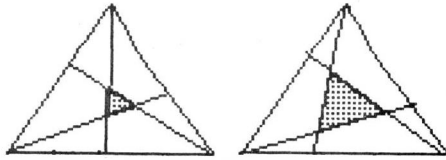
There are several phases which originate in Quantum Arithmetic. The prime Pythagorean triangles have been covered previously. Synchronous Harmonics has been covered. The ellipse has been described and the Koenig Se-



ries has been investigated. However the Koenig Series will again come into play in its third dimension application in an extra-ordinary music, and the torus.

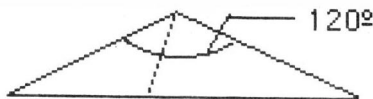
The one thing which was covered in the text books (QA-1, -2, and -3), but has not been

covered in these technical books are the equilateral triangles, and the isosceles triangles. A picture will fill that in. There is a series of equilateral triangles which parallel the prime



Pythagorean right triangles. These equilateral triangles are unique in that a line can be dropped from any angle to the opposite side, and is measured by an integer. It divides the intersected side into two parts, each of which is measured by an integer.

If the dividing line is placed first on one side and then on the other, it will become an

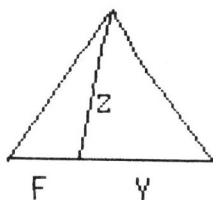


isosceles triangle. These also, will form into another parallel series of geometric figures. These have been described in the text book QA-2.

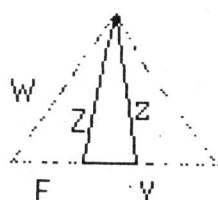
The values within the isosceles triangle are exactly the same as the values in the equilateral triangle. The only difference is that the val-



The 120° Isosceles Triangle



Equilateral Triangle



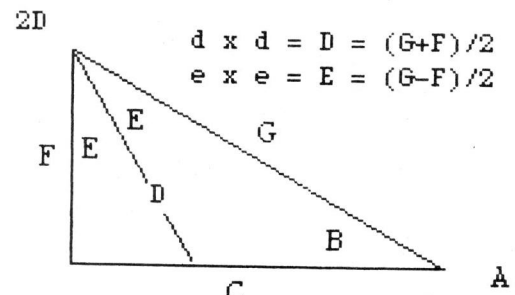
Isosceles Triangle

ue of Z is repeated to form the two equal sides of the isosceles triangle. Each individual equilateral triangle creates its own unique isosceles triangle.

Another natural innovation is found in the construction of the equilateral triangle with the dividing line projecting from all three angles to the opposite sides. In this way, it recreates a smaller unique equilateral triangle at the center, and this smaller triangle is rotated slightly. This is one possible way in which fractals are created. Combine this with the fractals which were described in QA -2, and there are a great many possibilities.

There is still another triangle which is the isosceles 120° triangle. These have not been investigated, nor reported in any of these books. It is open to investigation by any student who has learned enough about the generalities of Quantum Arithmetic. The isosceles 120° triangle has not been investigated, nor reported in any of these books. It is open to investigation by any reader who is willing to study.

There are other features which are minor paths leading away from the ones described here. This book would be far too complex if they were included more than a simple mention of them. It is hoped that this chapter has helped in the case of some parts which the reader has not melded with the rest of Quantum Arithmetic. We are started at the basic beginning of the straight and narrow way. (Shown in Table in the appendix of this book). That beginning is in the calculating and organizing of the integers for each prime Pythagorean triangle into a block, which is entirely



The origin of the $b \times b = B = G - C$
"roots" with the $a \times a = A = G + C$
Prime Right Triangles.

unique but yet, is related to every other block we can enter in the Table.

The relationship between all blocks starts with, "Every block utilizes and gives us the prime numbers 2 and 3." Specific relationships build specific physical relationships between them to create the natural sciences which is generated within the numbers found in Quantum Arithmetic.

The relationship then extend to every block in one of four divisions.

- 1) The block may not have a representation of 5 or 7;
- 2) The block may have a 5 but not the 7;

- 3) The block may have a 7 but not a 5 or ;

- 4) The block may have both, or neither, 5 and 7 represented among its primes.

This 4-way division is very important when working with harmonics.

There is one other important part of the subject which is the Quantum ellipse. This was fairly well discussed in the previous volumes and is fairly well up-to-date. However, it is important and will occur again when we get into the Third Dimension of the Torus, the Vortex, and Music.

Chapter 3

Nightside Energy

There is much more to be known about the generality and origin of general types of energy. It is not "new" energy because it has been covert and undiscovered until recently, but it has always been there, and it is possible that it occurs in some present applications. We are now learning how to make it available and usable on demand.

Each energy is of an integer wavelength in the scale in which it is assigned. This wavelength is a composite of "wavelets" which occur at a higher, scale. In this higher scale there will be from five to seven wavelets, from the Myriad above, which form the single lower scale, frequency. These wavelets are of specific frequencies which are prime to each other. Between them as a group, they are also harmonic to each other (See Volume II), in various ratios between them. The precise harmonic is found by the of pairing these wavelets.

There are also seven Myriads of Nightside energy, like the conventional Dayside energy. Each Myriad uses the same numbers and number combinations in a doubling process. Each uses the same established natural mathematical Laws as given here. The greatest mathematical difference between Myriads is that each Myriad of energy has its own unit of measure which is 5000 to 10,000 larger than the unit of measure of the higher Myriad above it. Our present science recognizes only three of these myriads. (1) one octave of the seven octaves in the Myriad of visible light, (I.R., and U.V.); (2) The table of elements of Matter has its seven octaves and; (3) The Myriad of Music, also has its seven octaves. These are the three, which our senses will detect. This is only a tenth of the energy. Nightside energy is similar but generally invisible.

The wavelet energy frequencies, when taken all together will be made of five to seven

prime factors in their Quantum Number values. These five to seven integers will also combine to make four numbers, in such a way to form a Fibonacci type configuration. Their product makes a single lower scale frequency, at the larger unit-of-measure. This also applies to Nightside energy.

These Fibonacci type numbers will define the difference between normal energy and nightside energy. In the case of Nightside energy the four numbers will contain two integers, (b & a), **which are even at the beginning and the end.** And there will be **two odd integers, (e & d), being intermediate.** One of these two integers, (d), will be the mean of b & a. The other, (e), is the variation from the mean, of b and a. The two even numbers in nightside energy will be one of them as $2n$, and the other is a $4n$ integer. (2-par and 4-par).

In the case of the dayside energy, there will also be four integers in Fibonacci configuration, but the **first and last will be odd integers and the two intermediate integers will be, one odd and one even.** The larger of these two intermediate integers, (d), will be the mean of b and a. The other, (e), will again, be the variation of b and a from the mean.

This is the basic mathematical difference between conventional energy and Nightside energy. This latter is also called "female" energy to typify it as being different from "male" energy. They are also be called cold, (zero-point) energy, and hot energy, with their opposites. Alternatively they could be called right-handed energy for the female energy and left-handed energy for the male energy. They comply with the Law of Opposites which means they are opposite in one characteristic at any given instance. That characteristic applies to both, in opposition between dayside energy and nightside energy.

There are four categories of integers determined somewhat along the lines of even/odd. These are the even-even, even-odd, odd-even, and odd-odd integers. These are described in "Definitions" in Euclid Book VII.

Their definitions are not clear, between the odd-even and the oddodd, in present language. The even-even integers are, of course the 4-n integers. The even-odd integers are even integers, which are not evenly divisible by four. The two types of odd integers have, now, been named 3-par and 5-par, for clarity. When any integer is divided by 4 it gives no remainder, or it gives a remainder of 2, 3, or 1 (or 5). These last two are called 3-par and 5-par, respectively.

We understand the rules for addition, subtraction and multiplication of the even and odd integers. (See Chapter 9 of Volume 1.) This leads to the case of the four-way partitioning of numbers. The product of two 3-par numbers is a 5-par number. The product of two 5-par integers is also a 5-par integer. The sum of two 3-par, or two 5-par integers is a 2-par integer. The sum of a 3-par and a 5-par integer is a 4-par integer, and the product of a 3-par number and a 5-par number is a 3-par number. This relationship carries through to the production of all energy. It results in combination of these four types of integers. They add new parameters to our mathematics within Quantum Arithmetic.

They also add to our knowledge about new energy projects:

NIGHTSIDE ENERGY

There have been many attempts to develop Nightside energy. Some of them have been successful. Several characteristics of nightside energy have been found.

(1) It is associated with cooling rather than heating. This is the most notable characteristic.

(2) If one obtains the true quantum number of any Nightside frequency, this quantum number will begin with 4 or 2.

(3) Most attempts have involved specialized inequality of magnetic forces.

(4) Levitation is involved with this energy.

It appears that the capturing of nightside energy need not be so complicated as has been experienced. In a highly developed ancient civilization, some aspects of nightside energy appear to have been brought about by a simple but concentrated mental effort. One narrative describes the simple drawing of a circle on the ground with a cross within the circle. Through mental effort, a Nightside flame is produced in the circle so long as the circular line is unbroken. It is a consuming flame which will consume any material object which is brought in contact with the flame. Other than that, the flame appears to utilize only aetheric energy for its fuel. This energy can appear in any form that conventional energy often appears.

Johann Ernest Bessier was born in Zattu Germany in 1680. He was generally known as Orffyreus, and in 1712 he gave a demonstration with a three-foot diameter wheel, on which it is supposed that he had placed specially ground harmonic conch shells. When this wheel was set into motion it would continue unabated to rotate until physically stopped.

In 1948 John Roy Robert Searl, at 15 years of age, had constructed a small model in his kitchen. This model eventually, had magnetic rollers which rolled around a circular track. This device levitated off the kitchen table and on right through the roof. He went on to harness the device to produce "Nightside" electricity. This brought resistance from the electrical company in England. He was arrested and sent to prison, and his device and most of the research data was destroyed in 1968.

By 1991 Floyd "Sparky" Sweet used a specially magnetized disk which revolved and supposedly also produced some ionization. This ionization was picked up by an electrical circuit, thus producing up to 5 Kilowatts of free energy. Above 6 KW, it levitated and created a disastrous energy vortex.

Others such as Tesla and Moray also produced this Nightside energy. It is quite possible that "nightside" energy has been encountered many other times in the past. One of its features is that it seems to be an unlimited en-

ergy. When more energy is required, it will be produced by most devices. The end result is that it drops to absolute zero as this energy rises to explosive force when the demand is high. So, it is possible that unexplained accidents have occurred, and the operators learned to avoid these situations rather than explore them and harness the overage of energy.

All of these depended on the use of harmonics as is described in these books, but they seem to require one more thing. That is to say, it appears that a mental intent, on the part of the inventor or operator, is required as well, in order to come in control of Nightside energy.

There are general features which produce Nightside energy. This has been principally electricity, but most have demonstrated some levitation qualities as well. Another effect is that Nightside energy seems to have a cleansing and balancing effect on the environment. Nightside and Dayside energies are everywhere in paired and balanced quantities. In that state, neither one is manifest since they counter one another. If one of them is re-

moved, the other becomes manifest in its effects.

There are probably thousands of ways in which this new energy can be produced, as we have seen in the reporting of accidents where harmonics are involved. We have yet to determine the exact parameters which must be observed. Quantum Arithmetic will give us leads to determine various parameters to be searched out. The harmonics which has been presented is only one of those aids.

New devices and instruments are being researched today, by interested scientists. When they are in production they will give us parameters of their operation which are presently unknown. As new parameters of Nightside energy are found and identified, it will be necessary to develop instruments to measure and quantify each parameter. Quantum Arithmetic stands by to help find and extend its application to this new research effort.

Chapter 4

The Parameters of Energy

The major fallacy of conventional physics has been found. That physics should, here after, be called "nincompoop physics", which was chosen by another scientist, but is a very apt title. The fallacy is that nincompoop physics has based its work almost entirely on the existence of Matter, our physical senses, and empirical research. It has no ultimate foundation except prior theories.

We find that Matter is just one phase of seven kinds of energy. When energy is classified by its frequency, (or wavelength), in the entire spectrum of electro-magnetic energy we find that Matter lies somewhere in the middle of that spectrum. Actually it lies near the logarithmic middle of the spectrum, depending on whether wavelength or frequency is the unit of measure to be used. New Science has a solid foundation in mathematics and invisible energy.

So the subject of study is "Energy", but in order to study energy we must go back to the forces which create the energy in the first place. There are four forces which combine in various ways to create energy.

Professor John R. R. Searl says they are in two pairs of parallel forces. Then each of these pairs of the four forces, lies at a right angle to the other pair. This appears to be sufficient beginning information for Professor Searl to have constructed his Demo 1, and Demo 2 space ships.

We agree that there are four forces which, probably should be considered, but Professor Searl is probably considering energies rather than forces. We may be talking about the same thing but on different levels. In the end, he is probably considering the same geometric configuration in which he will pair up a third pair which is, again, at right angles to the first two pairs.

However, we are all familiar with three of the four forces. It must be this way in our 3-dimensional world. Professor Searl must use it to obtain lift as well as horizontal control. As forces these are "Gravity", "Electricity" and "Magnetism". Looking at them here on earth, we can see that these three are all at right angles to each other creating three dimensions. In order to get this configuration, one must believe that there is an electrical force which travels East/West. The fourth force seems to be a mental or metaphysical force.

All energy is described within the seven Myriads of energy. This energy will be classified by its hertz value. The top of the hierarchy has frequencies in the range of teva-hertz, and the high giga-hertz called the; (1) CREATIVE Myriad. The bottom of the hierarchy is the; (7) SUB-SOUND frequencies of 1 to about 25 hertz. The (6) MUSIC MYRIAD runs from about 40 hertz to about 6 kilo-hertz for the place near the bottom of the hierarchy of the seven Myriads.

Other Myriads in descending order are: (1) CREATIVE MYRIAD, followed by (2) THE METAPHYSICAL MYRIAD just below is the (3) MYRIAD OF LIGHT, the; (4) MYRIAD OF MATTER, and the (5) MYRIAD OF ULTRA-SOUND, and (6) THE MYRIAD OF MUSIC. (These are described more fully in Volume II.)

The characteristic of frequencies in any myriad are defined and described by their peculiar Quantum Number. MUSIC IS THE ONLY MYRIAD IN WHICH WE UNDERSTAND MOST OF THE RANGE, but there are other forms of energy in this myriad, besides the musical tones. The Quantum Number defines how that will be expressed. There are other energy forms within the Music Myriad, which we cannot observe through our senses

or instrumentation. They are defined only mathematically through their Quantum Numbers.

These seven Myriads cover the beginning of energy consolidation from about four Quadrillion Hertz down to one hertz. As stated, it requires up to seven different prime vibrations, as wavelets, for an energy to cascade down to a lower Myriad.

The first Myriad begins, (theoretically), at about four Quadrillion hertz. Wavelets of this energy will cascade down to the Second Myriad which is metaphysical and contains thought.

The Third Myriad begins with Ultra-Violet light and ends with Infra-Red.

The Fourth Myriad includes elemental Matter.

The Fifth Myriad includes Ultra-Sound.

The Sixth includes all Music frequencies.

The Seventh Myriad includes sub-sound, Emotion, as well as Brain Waves.

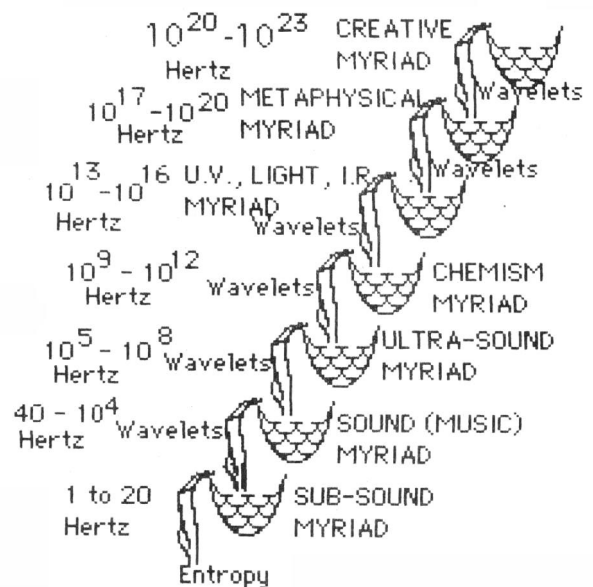
Each Myriad consists of seven octaves. Each octave contains a maximum of 10,000 different quantum frequencies.

VERY LARGE UNITS OF MEASURE

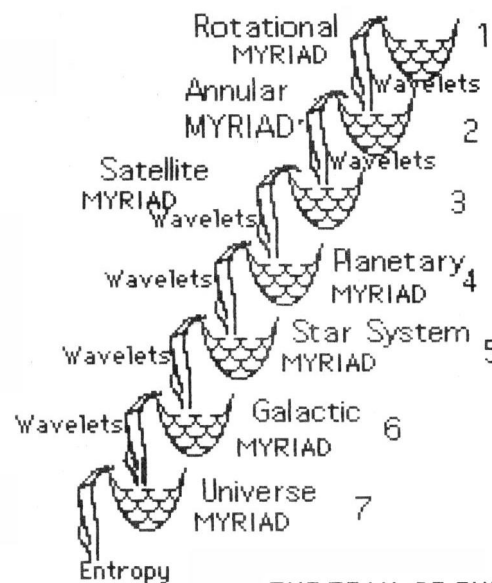
From 1 second periods to billions of years is another Seven Myriads. They include:

- (1) the axial rotation of the various bodies.
- (2) the Annular rotation of minor satellites around the major satellites, Moons;
- (3) The rotation of the major satellites (moons) around the parent planet;
- (4) the rotation of the planets around their Star;
- (5) the rotation of the various stars and their planetary system, within a galaxy;

(Hertz values shown are estimated)



THE TRAIL OF ENERGY



THE TRAIL OF ENERGY

(6) the revolution of the various galaxies in the Universe;

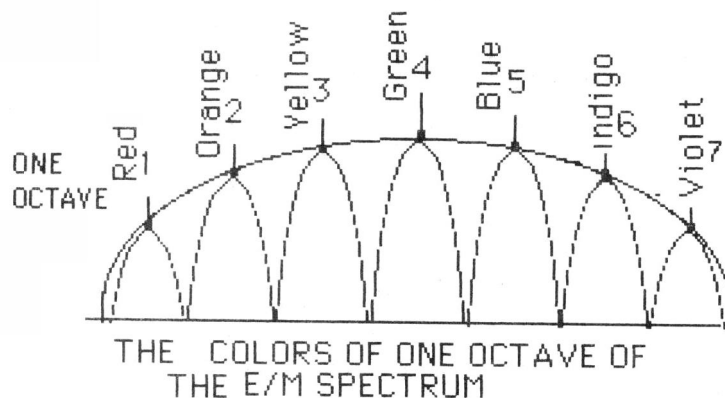
(7) the revolution of the Universe.

In studying energy, it will be limited to the seven Myriads from Creation of energy to the Sub-sound Myriad. The various Myriads can be pictured as a series of waterfalls, with non-quantum frequencies within the waterfalls which are areas of chaos.

Of course, our present (nincompoop) measurements of energy in "hertz" is continuous and all values are non-quantum like the areas between waterfalls. It is only rarely that we will occasionally hit a "quantum" frequency. This occurs in the non-quantum continuous spectrum. At these points we say that an "unwanted harmonic" has been struck. Quite often a violent accident occurs. At these points, they no longer meet nincompoop planning.

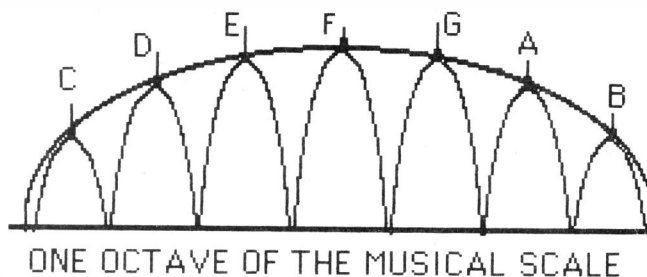
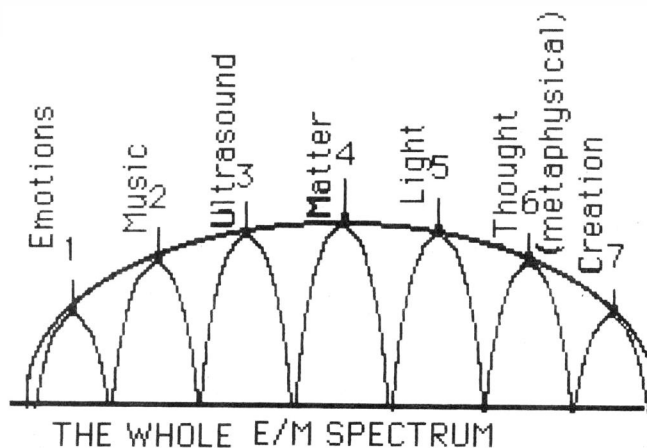
It is an analogy to this which Nightside energy researchers have found at about five or six kilowatts of produced energy. Sparky Sweet and John Searl both encountered this phenomenon. There was a sudden swirling of chaos in an unwanted aetheric vortex. Searl overcame this by inserting another "plate" to accommodate the higher wattage. At the top of this higher wattage, he inserted still a third plate, and was able to experience the full thrust of levitation. In effect there was a "waterfall", introduced at the end of each Myriad, from 5- 6 kilowatts to megawatts. It is apparent that Nightside energy can be produced only in quantum amounts and by quantum means.

There is a mathematical context to the parameters of energy. Prominent in that context is the number "7", (7 Myriads each with 7 Octaves) giving us a picture of the seven Myriads of energy, and it also represents any one of the 7 octaves. The left end is low frequency. The right end is high frequency. One can liken this to the piano keyboard. The low octaves and the high octaves are less musical



than the central, base or the treble octaves.

This could also be the Scale of part of the Electro/Magnetic Myriad of Light, with three octaves in the heat range and three octaves of UV. In this case the peak frequencies are the single intermediate octave of visible light. In each case, each of the loops, also, will represent an octave or line in the Table of Elements, an octave of music, or an octave in the E/M Scale.



The picture, as shown can be used to represent the whole of energy from the top, (Creation), down to the lowest Scale, which is Emotional energy to take in the whole spectrum of energy. On the other hand each of the Myriads of energy can be divided into its seven octaves. This picture can be used to represent a single octave and the seven major frequencies in each octave, in a more detailed scale.

If we drop to even lower scale and divide each of the frequencies into its seven wavelets compose the given frequency. Each Myriad; Each octave of a Myriad; Each frequency of an octave; Each wavelet, must be a "quantum frequency".

Those are the mathematical parameters of energy reaching down from the Creative Myriad to the Myriad of Emotional energy. We do not know the precise frequency at which most Myriads begin or end. I do know that the frequencies throughout must be precise quantum, (integer), measurements.

The lowest Myriad of Emotional energy, (Sub-sound), is in the range of about 0.1 hertz to about 25 hertz. The true beginning of the Myriad of Music begins so some what above the commonly accepted value of 32 hertz and goes to about five or six kilohertz. Above that, Ultra-sound is in kilohertz. The three higher Myriads are in the range of megahertz, nanohertz, and tevahertz or higher.

There is a range of non-quantum frequencies between Myriads. Because all of our, (nincompoop) work has been with non-quantum frequencies, these different ranges are not operative, or readily detectable. The quantum frequencies are presently detectable only through mathematics of Quantum Arithmetic. The two lowest Myriads show that these energy frequencies can be very revealing. The whole scale is related to "Music of The Spheres", and each Myriad, Octave, wave Frequency, and wavelet frequency also operate under the limitation, and rules of Music of the Spheres.

When we bring in Quantum frequencies, some amazing things happen and amazing relations between them develop. Apparently

Sparky Sweet reached the top of the Myriad in which he was working and the device went out of control. It created a violent uncontrollable aetheric energy vortex, and the device began to levitate. Essentially the same thing happened until Professor John Searl learned to control it in his Inverse-Gravity disk. Searl appears to have learned how to control it to a point, that he appears to have gone from one Myriad to possibly two Myriads above with the three "ring-plates". Each of these rings and their runners graduated the energy to a higher level in the next higher Myriad. His "Levity disk" used three Myriads but his S.E.G. appears to be confined to two Myriads.

Knowing the mathematical parameters of energy will help to understand when the danger can become a problem. Knowing a problem may be developing, one can take precautions as Sparky did by limiting his device to Five K-watts.

But there can be other unknown and unpredictable dangerous events. Professor Searl and his "Law Of The Squares" enabled him to operate in, (and know he was operating in), a "quantum mode". Dr. Elkins, now refines that further.

The biggest problem is that Music of the Spheres sets up some powerful harmonics. That is the energy we are trying to tap. In ordinary engineering these harmonics may develop accidentally, causing a complete failure of a designed structure or device. That is the primary reason that a marching column of men must break step in crossing any bridge. There are two main causes of failures of a system. One is that the system is under designed, but much of the time, failure is caused by unknown and unidentified harmonic origins.

Most of my research in the mathematics of harmonics comes from the three lowest Myriads of energy. From the Ultra-Sound Myriad I was able to "cascade" Ultra-Sound frequencies down into the Myriad of Musical tones with a group of Ultra-Sound wavelets. The next cascade was from the Myriad of Music down to the Myriad of sub-sound. This latter is familiar to all of us because it concerns the tremolo or vibrato of Music, which is really the Myri-

ad below Music. This tremolo very seriously impinges on one's emotional state, and can be one of the hazard of working in this range. One's judgement may be so impaired that correct interpretations of the work becomes difficult. That judgement cannot always be trusted, because it may be flawed by an emotion of calmness and over-confidence on the one hand, and by the emotion of fear on the other extreme. These are both evident, and I have created both of them in demonstration.

Lord Rayleigh was absolutely wrong In stating that a frequency produces all of the harmonics above it. His proof is absolutely backward. Much of our knowledge about electrical frequencies has Lord Rayleigh behind its theories. If he was wrong, then how much else is wrong? Energy cascades from a Myriad above. Those higher harmonics exist as wavelets which cascade to the lower Myriad, thus creating the single tone we seem to hear.

On the technical side, the mathematical Parameters of Energy will help one avoid, or at least be aware of danger spots in the research, which we are doing. Just do not let the units which you are constructing, do you in, because of ignorance of the mathematical parameters and what they may portend in the areas of the unknown. In order to tap the Zero-Point Energy one must work in these frequencies or within a limited range of variation from them. Every device must be "tuned" into resonance with this unit-of-measure.

There is a natural method of numeration, which we have been told is related to the cubit. I have not derived the natural units of measure but we are getting close to it. What we have learned about Music Of The Spheres, will lead us to the natural unit-of-measure. All units of measure are related to one another, whether they are the measurement of an atom or electron, or measurements on the cosmic scale. Natural frequencies occur within this measurement system.

There is definite relationship between the Prime Pythagorean Triangles and the Law of the Squares as used by Professor Searl in his generation of the Searl Effect through the Magic Squares. His work is more advanced

than Quantum Arithmetic. Quantum Arithmetic is the base on which our scientific knowledge must start. The mathematics of the Zero-Point Energy was discovered nearly 30 years ago, but did not go beyond that, to see exactly what it was.

It seems that Einstein's "Black Holes" have gone down the drain. There is a small grain of truth to them, but there are extensions of it which are very wrong. We do have to accept that, but we have accepted a lot more which is wrong in scientific theory as it derives from an invented mathermatic.

They say that electricity is a stream of electron flowing down a wire. If we back up and look at this, it sounds rather asinine. If an atom loses an electron it changes into another element. That is not found in any electrical circuit. We do find electrolysis in which whole atoms are transferred out and we also find arcing which transfers matter.

In an electrical current it is ordinarily only energy which is being transferred. It is transferred from an electron in one atom to another electron in a different atom. In this case the first electron stays within its atom and only changes its elliptical orbit, or energy state. An electron in an adjacent atom picks up this energy and changes its orbit within its own atom, in the compensating direction. One electron changes orbit by one or more photons, and in a nearby atom, its electron changes its orbit by the same one or more photons. An electron cannot change from one atom to another without changing the atom. It can only change the energy state of the atom, by moving to a new orbit.

Quantum Arithmetic, says that Zero-Point energy is not changing the orbit of an electron from one atom to another. It is probably changing the orbital energy of. one or more protons within the atom.

Electrons and protons are created matter. Each electron is created with specific energy states it can occupy. The energy used to create an electron or proton consists of seven different wavelets which are tightly bonded, (quantum- wise), to each other through super har-

monics. It can absorb energy by changing orbit in which it travels by ordinary harmonics. So, it stands to reason that an electron cannot travel at the rate of 186,000 miles per second. Only the energy differential between energy states can do that. That differential is measured in "photons".

The electron's wavelets will interact with the wavelets of electrons in adjacent atoms passing their energy to, or from, them through the weak force thus passing on and moving the energy. Just this one change in interpretation begins to explain many anomalies which are found in conventional science.

The electrons are bonded to the nucleus by the strong force of the male/female bond. Both electrons and protons are formed of densified aether, which formed them in their original creation.

Quantum Arithmetic defines the difference between maleness and femaleness. In general the odd numbers denote "male" and the even numbers denote "female" in the ancient terms. This is found to have modern connotation. There is a great deal more to this in that male and female have strictly defined mathematical characteristics. In these characteristics, we find that the difference between the conventional energy and Zero-Point energy seems to follow along with these same generalities. The generalities are hot vs. cold, gravity vs. anti-gravity, or levitation, and electrons vs. protons.

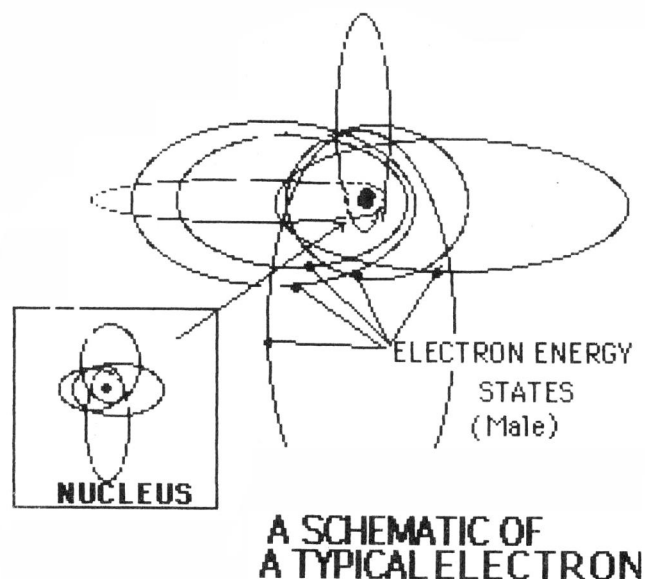
With that in mind, it seems that the protons of the atom should relate to Nightside energy, and the electrons seem to denote conventional energies. This seems true so long as we deal only in Quantum states. This distinction disappears in the present chaotic approximations of conventional science.

We seem to be ready to go deeper into scientific terms and definitions. Not only have black holes disappeared, -- they are defined in different terms than we have used until now. A black hole seems to occur at the top of Myriads of the quantum Energy, but we do not

have to deal with that right now.

We do have to deal with more basic scientific terms, closer to home. The schematic of an electron and a proton of an atom is a beginning in that direction. Quantum Arithmetic says this is the tentative picture of that atom. It needs to be applied to determine the truth, in actual application. If this proves out, it is a new beginning in science. The beginning has to be made first in our mathematics. Science and Art will follow along as Quantum Arithmetic progresses and proves itself as it goes along. We have thought that conventional mathematics did that, but it has serious errors in its basic foundations has been shown in Volume 1 & 11 of this series.

The present difficulty in analyzing the present machines for producing over unity energy, could very well be caused by a need for different tools and measuring instruments than



(An electron or a proton may change its energy state to any one of several others.)

those which are conventionally used on male energy. Science usually measures generated heat. It does not measure generated cold, and Nightside energy does generate cold. Our test instruments would show cold as a negative. In Nightside energy it is positive. It is something

which needs to be looked at.

We really do not know enough about this female, (Zero-Point), energy to judge. Does female energy follow the right-hand rule or does it have a left-hand rule for determining current flow in relation to the magnetic field? Since female energy is cold energy, will it ignite a flammable gas in which a spark is created? Or is there any spark at all? How does this energy cause electronic devices to react? I understand it will not work in such things as tape recorders or computers. it will work on resistance heating or lighting devices. What does this have to say about the theory of "electron holes?"

So, it raises a question of whether the present testing instruments are valid for testing over-unity production of Zero-point energy. Can Quantum Arithmetic be of any help in designing proper testing instruments? I am sure it can.

Just what is Quantum Arithmetic? It is the natural mathematics of the future without any invented devices or artificial rules. It operates within the divine rules of Nature and proves them as it goes along. So long as one follows the rules, many things become apparent. But one must always be aware that, although certain features are "apparent", the interpretation is critical. One must search for the truth through mathematical proofs which will be available through Quantum Arithmetic.

The factual discoveries in conventional science are all valid. Conventional science makes an interpretation, which is not valid. This turn of events has been so rampant in the past that it has thrown conventional science into chaos. There are two prime examples. Rayleigh's "proof" that a single tone produces innumerable higher harmonics, is one example. The other is the much older discovery by Fibonacci and "His Series". Today, such misinterpretations, are practically a daily occurrence. Every sentence begins, "it is believed that...", or "It is suggested that..." or "Tests have shown..." This is not the whole truth, and the interpretation contains much guesswork.

In summation: All of our energy comes directly or indirectly from an active aether which is in a continuous state of vibration, and varying states of densification or rarification. The energy from the aether consist of four kinds, all of which are in perfect balance. They can be called Male Energy and Female energy, each of which has two currents going in opposite directions. When they are in balance, all are undetectable by present instruments. If a resistance to one of the four forms, is placed it will give an outlet for the compensating form of energy, making it accessible and useable.

Chapter 5

QUANTUM ARITHMETIC & ENERGY

Let us drop back to basics for a moment to put the foregoing into context of mathematics. We will start with the "Quantum Number" of a thing, or of an action. It starts with the harmonics between two or more Quantum Numbers.

The most basic quantum number is "1, 1, 2, 3", which probably occurs in nature only in the Creative Myriad. It is the most harmonic number because it contains the factors of "2" and "3", and every other Quantum Number does also.

The law of harmonics states, **"When the Quantum Numbers of two things have the same prime factors, excepting one prime factor of each, the two objects will be in harmony."** If two Quantum Numbers have three, or four other prime factors, (wavelets), which are the same, and one additional prime factor, (wavelet), which is **different**, they will be in harmony. The closer the two different prime factors are to being in a low fractional ratio, the greater will be the harmony. That harmony results in the bonding factor between the two objects. This bonding is called "Sympathetic Harmonics". This was mathematically and physically proven in the previous books through musical application. It was also tested with atomic elements.

We are able to determine the Quantum Number of a few of the simpler energies, such as in the energy state, of an atom; of a simple musical tone, of a pure color of light. We are not yet able to relate an object to its Quantum Number, because many objects will have complex multiple or "chain" Quantum Numbers. The orbit of our Moon is one of those complex Quantum Numbers because it is a combination of two Quantum Numbers which create the Lissajou Orbit of the Moon, rather than a simple ellipse.

We know, from the Law of Opposites, that the female Quantum Number will have the same prime factors as the Quantum Number of their male counterpart, making the strongest bond. However, we do not, yet, know the object to which the Quantum Number belongs. They will differ only in the even factors. The female has a 2-factor and a 4-factor, and the male counterpart has only one even prime factor. We also know that the bonding properties will be there, without knowing the precise objects. We can determine the actual Quantum Number of any single energy frequency, or of anything for which we have the empirical ellipse. These include energy states of an atom; two different tones of music; or two different pure colors of light.

Now, having written all of that, an example of "bonding" is badly needed. If the reader has reviewed *Synchronous Harmonics* (page 65-84 of volume 2, *Pythagoras And The Quantum World*, and/or page 66-99, in QA-7), it could be quite helpful.

Synchronous Harmonics concerns the bonding between two wavelets of different frequencies. Let us use wavelets in Ultrasound, which are defined only by number values in that Myriad. Five to seven of these wavelets interact to create a single tone in the Myriad of Music below Ultra-Sound. This can be studied only in a quantum sense so that type of example will be used:

Say we have five wavelets which have the numbers 2, 3, 5, 7, 11, in Ultra-Sound, which will create an audible tone having the Quantum Number $2 \times 3 \times 5 \times 7 \times 11 = 2310$. Then say we have another set of wavelets which have the Quantum Number 2, 3, 5, 7, 13, in Ultra-Sound, which will create the audible tone, $2 \times 3 \times 5 \times 7 \times 13 = 2730$. Both of these cases have the common factors of 2, 3, 5, and 7, for both.

This will create a strong bond provided the two unique factors, 11 and 13 are low and close together. They are.

The first has the unique prime factor of 11, and the second has the prime factor 13. These are imagined to represent two string, one of which vibrates at 2310, the other vibrates at 2730. They have a common denominator of $2 \times 3 \times 5 \times 7 = 210$. So, both strings will have 210 for an aliquot part. The first string projects 13 of these aliquot part. The second string projects 11 of these aliquot parts. At this time both strings will come into Sympathetic Harmony, both having completed their aliquot 210-cycles at the same time and ready to start over. They will coincide only at that point. $210 \times 11 = 2310$, and $210 \times 13 = 2730$. They coincide because 2310 in one unit of measure, equals 2730 in a smaller unit of measure. Either string when plucked will mathematically divide itself into halves, thirds, fifths, and sevenths. But one will also divide itself into elevenths and the other will divide itself into thirteenths. Their units of measure are in the ratio of 11/13. So the lower valued, (11) string will have to go 13 smaller cycles and the higher valued, (13) string will go through 11 larger cycles, in order to coincide. This will be their bond through sympathy.

This example can be tested by playing notes of these two values, 2310 & 2730, on a music synthesizer. The two note chord which results will be very unusual in harmony because these are quantum values. They are of mathematical design in this example.

Let us take an example from a practical "Equal Temperament scale". Let us take two strings which are practically tuned. When we pluck them, they will divide themselves into halves, thirds, fifths, sevenths, elevenths, etc through the prime numbers. When we pluck them they vibrate by these wavelets.

We take a string with the C-note, (261.6), and another string with an F-note (349.2), Each string will be using a different unit of measure. Their fractional wavelets will be different lengths on the string. Only the half-wavelets and the third-wavelets of both strings will resonate. The fifth wavelet will resonate

very slightly but the others are all wasted energy. The bond will be very weak on the order of 218 : 291 instead of the former ratio of 11 : 13

Quantum Arithmetic can calculate these number values through program "Quantize". But they all bear long decimal values. Of course F : C is a musical chord to our ears, but the F-note is a more than 1/3 higher than C. These two notes will reach Synchronous Harmonics at a ratio of 218:291. These numbers are far too high to be Quantum Music. They should be in the absolute ratio of 3:4 in order to be quantum tones. If the C-note is 261.6 HZ then the F-note should be 348.8 instead of 349.2. It is a change of only 0.4 HZ but makes the difference. The bonding properties are far too weak to be considered as being quantum. A trained ear can detect this.

Back to the beginning before these examples: -- When we pluck a string we cause it to resonate in those fractional aliquot parts. These aliquot parts are the wavelets which produce the note we see, hear, and record. It is the cochlea of the ear which perceives these wavelets, and the single note we hear is produced in the brain. The absolute value of tones is one parameter which must be met.

The strongest bond of all is the male/female bond. This bond is so strong that most trained ears cannot separate them into a chord. The first male quantum number is "1, 1, 2, 3", which is also probably inaccessible to us because it contains only four factors, including "The two One's". The equivalent female quantum number is "2, 1, 3, 4". This is the first Nightside, (female), quantum number relating to the Law of Opposites and relates to what is called "negative energy" or "Zero-point energy", or "female energy". I prefer to call it by its ancient name, "Nightside" energy. There will be in perfect harmony except the Night-side is exactly two octaves higher than the Dayside. These are inaccessible to us, and probably will remain so for some time. Since $1 \times 2 \times 3 = 6$, and $2 \times 1 \times 3 \times 4 = 24$. Their ratio is 1 : 4, or a differential of two octaves.

The second male Quantum Number is "1, 2, 3, 5", which is also probably inaccessible to us

because it contains only four factors, including "The One". Its female counterpart is the quantum number "4, 1, 5, 6". This is the second Nightside quantum number relating to the Law of Opposites and relates to what is called "Nightside energy" or "Zero-point energy", or "female energy". This second Quantum Number may also be inaccessible to us. Their frequencies are 30 and 120, which again, is two octaves higher.

These quantum Numbers should be called "virtual". They probably occur only in the creative Myriad, or they may be used in originating the "cascade" to a lower Myriad, upon which the other Quantum Numbers build. They may be used in building the foundations of atoms which form in the Myriad of Matter, but they do not manifest to us.

There is a difference between the formation of an atom and the energy which creates the appearance of heating or changing energy states within the atom. Can we assume that the atom is formed above 0° Kelvin? When 0° Kelvin is reached it appears to release this aboriginal energy of the atom into its higher Myriad with an explosive release of energy in the form of an aetheric vortex. From this it would appear that "Zero-Point" or absolute zero is the point of change, rather than the energy itself. This point has been reached by several researchers, with what could have been disastrous results.

It is important to understand the "Law of Harmony" and the "Law of Opposites" in order to do research in advanced science. This research is in the domain of quantum physics, so it must use Quantum Arithmetic in order to understand what is happening.

There are other virtual Quantum Numbers. The quantum number, 5, 3, 8, 11 is a male number containing the prime factors of 2, 3, 5, & 11. This is a minimal but very important quantum number because it brings in factors of 11. It is a "male" quantum number because the even number appears in one of the intermediate factors. Its female counterpart is 6, 5, 11, 16. The mean (11 and variation, (5), of 6, 5, 11, 16, are odd numbers. These each have only four prime factors, so they are also prob-

ably "virtual" female Quantum Numbers

The next number is 3, 5, 8, 13 for the male, and 10, 3, 13, 16 for the female. These are still virtual with only four prime factors.

Let us now jump ahead to quantum numbers which are no longer "virtual" and become manifest in our physical world. The quantum number, 5, 8, 13, 21 is a male number containing the prime factors of 2, 3, 5, 7 & 13. This is a minimal but very important quantum number because it brings in five factors of 13 or lower. It is a "male" quantum number 5, 8, 13, 21, because the even number appears in one of the intermediate factors. The female counterpart is 16, 5, 21, 26. These have the minimal five prime factors, so it is no longer virtual. It represents a specific energy frequency which should manifest.

For a female (or Nightside), quantum number we can use 4, 5, 9, 14 containing the factors 2, 3, 4, 5 & 7. Notice that 2 and 4 are both included. This is a female (nightside) quantum number because it begins with a 4-par integer and ends with a 2-par integer -- both even. It has the minimum compliment of five prime factors, so it may be a functional quantum number of Nightside energy. Its male counterpart will be 5, 2, 7, 9, which probably is non-functional because it contains only the four factors, 2, 3, 5 & 7. -- (But, of course it contains the virtual "1", because it contains only integers, and one unit is the difference between integers. The One-unit seems to represent the Creator, and the creation of the number system.)

The vast bulk of the 5,000 to 10,000 possible quantum numbers contain seven factors. They can be functional with only five factors. The quantum number can also be considered as being the product of the four integers in the above quantum numbers. The female one, (4, 1, 5, 9, 14) given first has a value of $(4 \times 5 \times 9 \times 14) = 2520$. The second male quantum number, 3, 2, 5, 7 will multiply to $(5 \times 2 \times 7 \times 9) = 630$ which is 1/4 of the value of its counterpart female quantum number. That is, the female frequency is two octaves above the male frequency. The female number is functional but the male number is only virtually function-

al. For a better understanding of how "harmonics" operates, and the mathematical laws which are involved, one should study the chapter in Volume 11, which is entitled "Synchronous Harmonics".

HOW WE HEAR

Contrary to what is readily apparent, we do not "hear" sound with our ears. The sound enters the ear canal. The ear breaks this down in the cochlea, into its components wavelets as the hairlets respond to the wavelet frequencies. Each wavelet has a wavelength measured by one of the prime factors within the Quantum Number of the audible sound. These wavelet signals are sent to the brain where the single tone is reconstructed and interpreted.

The cochlea has its hairlike construction which is responsive to the wavelet frequencies within a tone. They do not respond to the whole tone, itself, because they are of a length which is resonant to the higher frequency, shorter wavelengths of the wavelets. This is what harmony is all about. This is a case of wavelet theory giving us an idea how the mechanical construction of the ear can receive and translate a tone. At the same time in reverse order, the wavelet theory gives us the interpretation of the physical laws used by the ear.

HARMONICS -- IT IS THE LAW

With regrets, I send my condolences to Lord Rayleigh. These condolences are also being sent to the scientific community for the acts of Lord Rayleigh. Harmonics is not as Lord Rayleigh so inaccurately proved. This has put science into a spin for the past century. There is a flaw in his mathematical proof. He employed time reversal, unknowingly in his proof.

Some scientists began to sense the true conditions required of Harmonics and knowingly, or unknowingly circumvented Rayleigh. The "transpositions" which became so necessary in closed circuit telephone systems, was made necessary by this misunderstanding of harmonics, but they were put in for the wrong reasons. The harmonic resonance of tall build-

ings for seismic protection, has never been a full success, because the wrong parameters have been utilized. The explanation of why the female voice is one or more octaves above the average male voice, also depends upon a correct explanation of the role of harmonics.

But, to explain how harmonics works, it is necessary to go back to the very beginning. What Rayleigh probably was proving, and can be logically proved as he tried to prove, was the time-reversal aspect of harmonics and sound. In short, the proof was backwards. A single audible sound does not produce all of its higher harmonics. The higher harmonics are *a priori* to the audible sound, even though these higher ultrasounds cannot be sensed as sound. In our material world, these higher harmonics begin at the scale of the atom and its electrons. For the proof of this, one must go back in mathematics to straighten out some misunderstandings which were first given to Rayleigh, and to science.

The problem goes back to mathematics because what we use, is an invented mathematics. It is not the natural mathematics which was used more than two thousand years ago. So we must begin with the ancient times. We must first discover the laws which govern this mathematics. We must discover the real use of the prime numbers, where all mathematics begins. The prime numbers lie behind all mathematics. We must eventually adopt this mathematics. When we finally adopt it, mathematics will become a primary area of research. It will not be the dry and dull mathematics which is taught today. It will become exciting and adventuresome, in learning the laws which apply and how they carry over into and beyond the most advanced sciences of today.

Many of our definitions within mathematics are awry and/or deficient. The definition of prime number is one of those definitions. The important aspect is in one integer being PRIME TO another integer. Any individual integer can be prime only when there is at least one other integer to which it is prime.

The first thing which becomes clarified is the reason and the place of twin-primes. In effect, all so-called prime numbers are one of a

pair of twin primes. So let us start by going through and listing them up to 100. They are: 5-7, 11-13, 17-19, 23-25, 29-31, 35-37, 41-43, 47-49, 53-55, 59-61, 65-67, 71-73, 77-79, 83-85, 89-91, 95-97, 101-103. Note the total absence of the prime number 3. This is what creates the twin primes. The intervening integer between the twin primes is always divisible by 3.

The first seeming exception to primeness is the use of 25, which is followed by 49, and the next similar exception is 121. Any power of a prime number, is fundamentally prime and takes the place of its root. In harmonics, the square of a defined prime number is prime, and it will supersede and minimize the physical application of its root. This begins to explain many things within harmonics. This anomaly first showed up in Synchronous Harmonics and the interaction between energy waves.

The second exception consists of another type of prime number. These are integers which have two smaller prime factors. In the above list, these are: 35, 55, 65, 77, 85, 91, and 95. $35 = 5 \times 7$; $55 = 5 \times 11$; $65 = 5 \times 13$; $77 = 7 \times 11$; $85 = 5 \times 17$; $91 = 7 \times 13$; and $95 = 5 \times 19$. These are products of 5 or 7 and a larger prime number, being 7, 11, 13, 17, and 19 in these cases.

From the above analysis it becomes very apparent that the integer "3" plays a significantly different part. Other than 1-3 and 3-5, there are no other twin primes with the factor of 3, which can be one party of a twin prime as can 5, and 7. The intervening number in any twin prime is divisible by 3 and there are four integers between twin primes. These are the only two types which have not agreed with our conventional definition for twin primes. These exceptions in our understanding, are important to understanding harmonics. Through the twin-primes we can learn some of the basic differences between invented mathematics and natural mathematics. It is a minor but important revision.

Part of the natural reason for this is, every applied calculation in natural mathematics, must contain the prime numbers 2 and 3, or

products of 2 and 3. The twin primes begin with 5-7. Any integer may be PRIME TO another, when neither one is prime in itself.

Our understanding of prime numbers is so very basic to all of science that it becomes the cause of many of the "accidents" in empirical science. This is but one of many other misinterpretations. In order to understand the NATURAL mathematics, one must relate the conventional definitions to the definitions as they occur in NATURAL mathematics. In that respect, the new definition of prime number will not be exactly the same as the conventional definition. This natural mathematics will be called QUANTUM ARITHMETIC because that is what it turns out to be. It is a mathematics of integers and natural LAWS.

Quantum Arithmetic turns out to be just that. The word "Quantum" means composed of whole numbers only". The word "Arithmetic" means "use of only the arithmetical functions of addition, subtraction, multiplication and instead of division will be the factoring of any integer into its prime factors in each case of application. It is simple arithmetic, but in spite of that simplicity it is capable of providing solutions of problems which cannot be solved by conventional empirical mathematics.

One of the first things which Quantum Arithmetic gives us is the definition of a Quantum Number. "A quantum number is an integer which has at least four co-prime factors, and not more than seven prime numbers." Most Quantum Numbers will contain six or seven prime factors. Its list of prime factors makes a Quantum Number unique from all other integers. This puts us in a position to state the Law of Harmonics: When two Quantum Numbers have the same prime factors, EXCEPTING ONE PRIME FACTOR, they will be in the state of harmonic resonance with each other. The lower the ratio of the excepted prime factors, the greater will be the harmony between them.

The laws explains much about science which has been in the land of mystery. For instance "What is Sympathetic Vibration?" Why will a string tuned to a certain frequency cause another string stretched the same frequency to

vibrate when there is no physical connection between them? The reason is, that the two strings will have frequencies of the same quantum number, and they thus become ONE under the Law of Harmony, and the Laws of Quantum Arithmetic.

We can suppose that the energy of one string is transferred through the air, but that is not necessarily true. Experiments must be performed to show that this transfer of energy does not occur in a vacuum, and occurs only when there is an atmospheric, or other material connection between them. Quantum Arithmetic implies that there is a possibility that the air may not be a necessary transmissive medium. Transfer of energy does not require material substance, particularly when the energy is being transferred from the Sun to Earth.

There is too much detail within Quantum Arithmetic to give in this text, but it is possible to tell some of the basics, which are familiar.

One of the basics of Quantum Arithmetic utilizes what are called "Fibonacci type numbers", but it is first necessary to clarify our understanding of Fibonacci. He gave us what he could glean in his time. What he gave us is far from complete. A more complete description is that given in Euclid Book VII, Proposition 28. **"The sum of two numbers which are prime to each other, are also prime to them. The difference of two numbers which are prime to each other is also prime to them."**

This gives us a series of four integers in the Fibonacci configuration. But let us go back 1500 years before Euclid, and we find they also used these 4 integer combinations in their calculations in the Rhind Mathematical Papyrus. In this four integer combination, the third integer is the mean of the first and fourth. The second is their variation from the mean. This is presently a part of "Statistical Analysis", so we are still on familiar ground.

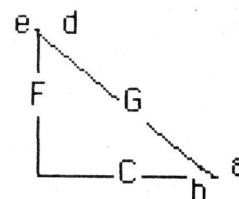
We begin to leave familiar ground when we study the method of multiplication as used in Quantum Arithmetic. This was taught up to 80 years ago, but has now been generally dropped from our education system.

The system of multiplication of two integers, in Quantum Arithmetic, is to consider they are the first and fourth integers of a Fibonacci configuration. Their product is found by the subtraction of the square of their variation from the square of their mean.

This is one of the basic operations within Quantum Arithmetic. Only the first and fourth integer are required to solve any problem in Quantum Arithmetic. They, along with their sum and difference form the four "roots". With these roots, we can solve any problem, but it is first necessary to find the correct prime ratio between the mean and the variation. Quantum Arithmetic provides the means to perform this operation.

The operation is called "Quantizing" but the rest of Quantum Arithmetic must be explained and understood, in order to comprehend how and what the rules are.

Essentially, the second and third integers of the Fibonacci configuration, become the square roots of the variation, and of the mean between the Hypotenuse and the Altitude of



an unique Prime Pythagorean Triangle. The original two integers are the square roots of the sum and difference of the Base and the Hypotenuse of that same Prime Pythagorean triangle. The square roots of these four squares, are the four integers which are the roots of the selected problem and they will be in Fibonacci configuration and are the Quantum Number of that triangle. They are also the roots of all other plane geometric figures, including the equilateral triangle, the isosceles triangle, the ellipse, and a series of the ellipse, and a series of integral concentric circular figures. The numbers 59, 1, 60, 61, in Fibonacci configuration are considered to be the Quantum Number of Earth Orbit. In order for this system to work, the empirical values must be

critically accurate.

Once any two of the roots are obtained and properly quantized, it is a simple matter to determine all of the parameters of an orbiting or vibrating body. An example will probably demonstrate the procedure:

In finding the precise orbit of the Earth-Moon system about the Sun, the perigee of the orbit will be the smaller number, and the apogee will be the larger number. These two numbers, in whatever units, will be put through the "Quantize" Process. They turn out to be 59 and 61. Their mean is 60 and their variation is 1. Multiplying 59 times 60 will give us 3540 quantum units of the perigee. Multiplying 61 times 60 will give 3660 for the quantum units of the apogee. If our original input is in miles, we find there are 25834.3 miles* per quantum unit. There will be 240 points in the orbit around the Sun in which the measurement's in quantum units will be integers of quantum distance from the Sun, and will also be in integers for the distance from the secondary focus of the elliptical orbit. (*The constant 25834.3 is inaccurate because the empirical distances to the Sun are inaccurate.)

It will also be possible to calculate the precise distance, at any precise time, in rectangular coordinates from the Sun. With that calculation it is possible to plot the precise position of the Earth/ Moon system within a tolerance of one mile accuracy. The empirical measurements, with which one begins, must be accurate to one unit per thousand. The Quantizing selects the nearest possible Quantum Number which is unique to the problem.

One can also Quantize the orbits of electrons around the nucleus of an atom by the same process except the spectrographic lines are used for quantizing the energy state of an electron. This value, in relation to all other spectrographic lines is considered to be the ratio between the perigee and the apogee. This tentative Quantum number for each energy state, can be used to compare energy states of various electrons of one element with another. The Quantum numbers, and similarity between Quantum numbers, will then tell where bonding will likely take place between two

elements, and at what energy state, and in what proportions they will combine, as well as give the relative strength of the bonding.

This process is too complex and detailed to describe here. This is where harmony comes in. There is harmony between energy states of atoms, just as there is harmony between the various planets of our planetary system. The same system of harmony also applies between the colors of the rainbow, and it applies to notes of music. This latter, is where the Music Of The Spheres comes in. We presently have enough information, through Quantum Arithmetic to determine the precise notes of Music Of The Spheres, but a very refined and directed research process will be required.

As for Quantum Arithmetic, it has every promise of being the Grand Unified Field. This is not for everyone because it does what science has predicted but it certainly does not do it in the way which has been anticipated. It points out so many of the deficiencies, omissions, and errors in our system of theories. There were vast deficiencies in the definitions which Fibonacci gave us, and there was an actual reversal of process in what Lord Rayleigh gave us. These are not isolated cases. It spreads throughout our sciences, our arts, and our system of education. The Grand Unified Field is much more far-reaching than anyone had anticipated.

It is time to look back and review what has been changed in conventional arithmetic to make it become Quantum Arithmetic.

1) Fibonacci: The original Fibonacci Number series has been added onto by accepting the original definition as set out by Euclid Book VII, Proposition 28. This had divided the so called "Series" into groups of four integers and added over ten times as many number combinations as Fibonacci reported.

2) Primeness: The definition changed, by added to the present definition by including powers of prime numbers. Certain combinations of prime numbers. especially products of low primes, (7 and lower), and a larger prime. These are composite numbers, are prime to all others which do not contain a prime factor

used in the composite number.

3) Decimals: Use of decimals is eliminated in favor of using prime fractions. This brings in an absolutism of all values which has never been available in conventional mathematics.

4) Transcendental Numbers: Practical elimination of transcendental numbers has been accomplished. The value of PI is 20612/6561. This makes PI an absolute value carried to the equivalent of several thousand decimal places. This is not new. It was first advanced 130 years ago [by Parker/Keely*] but rejected by "people of influence".

5) Base-10 Numeration: Elimination of binary and decinary numeration for calculation is eliminated by introduction of multi-base numeration. Provision is made to work between Base-10 and multi-base numeration through Program "Quantize". One problem remains here in that conventional numeration is empirical and is almost never in absolute terms. To overcome that omission, it is possible to make an allowable error factor for the empirical values.

These five changes are very basic and enter

the domain which we thought was absolutely stable. It seems that no mathematician has gone into this foundation of mathematics. They simply assumed it was rock stable. Now we find it is a foundation of sand, on which was supported an invented system of mathematics.

This is a stable foundation found within the unchangeable prime numbers. On this foundation, Quantum Arithmetic has advanced to build a Natural Mathematics. We have found not one single current theory which is complete and without error. Many of these have been corrected and completed. In several, we have converted them to absolute LAW.

This is important to New Energy research because the changes have a bearing in many things. Secondly, we will soon be able to do such research with methodical calculation of what works or does not. The last chapter closes the loop. Enneagrams are the counterpart of the Magic Squares used by John Searl, for levitation and power.

*See *Quadrature of the Circle* by John A. Parker

Chapter 6

Spirituality

Science is oriented almost exclusively around matter instead of around energy. Matter is just one of seven kinds of energy, when energy is classified by wavelength or frequency.

Matter is just a part of one of seven Myriads of energy. There are three Myriads above matter and three Myriads below matter. Immediately below the Myriad of matter is ultrasound energy. Below that are music and subsonic Myriads. Above matter is the Myriad of Light along with its octaves of infra red and ultra violet. Above that is the Myriad of the Metaphysical. Above metaphysical is the Creative Myriad, making seven orders with which science should be concerned.

This chapter concerns the Metaphysical Myriad, in which all of the spiritual phenomena lie. This Myriad is just as complex as is the one Myriad which we call Matter. The Metaphysical Myriad has never been studied except in the context of the Myriad of Matter. We must study all things through the other six Myriads of energy which can be analogous to this Myriad. In studying the other six Myriads we can adapt those Laws and relationships which are common to them and probably pertain to this Myriad of Spirituality. There are frequencies in this Myriad which will have similarities with the other known Myriads.

We can begin by assuming there are seven octaves of frequencies in the Spiritual, or Metaphysical Myriad. We can also assume there are seven primary frequencies in each octave.

In the Myriad of Light, the single octave has seven colors. Of these seven colors there are four, -- red, yellow green and blue, which are classified as primary and superior to the other colors.

In the Myriad of Music, each octave has four primary notes which are produced by the ordinary bugle. They are C, F, A, and C. As blue is half the wavelength of red, so is the upper C one octave above the wavelength of the lower C note. So, we can assume there are seven octaves in the Metaphysical Myriad. Spirituality may be one or more of those octaves.

In addressing the idea of spirituality, it is done in the mechanistic sense, not in the religious sense. In this respect it becomes a personal characteristic, as well as the global or mass consciousness. We ask the question, "Where does energy come from, above the frequency of light"?

We have much anecdotal reporting, beginning with the Egyptian "Book of The Dead", then down through Plato. There is also much, being reported on a day by day basis. I will rely on those of which I was an integral part, and try to put them in the context of the question.

One of the Biblical books which has been withheld by organized religion, is the Book of Immanuel, or the Talmud of Immanuel. There are said to be only six of these books in existence today, and they are being held in deepest secrecy. They are important to religious thought because they concern the personal part of the life of Jesus Christ, and contain some of his own personal remarks about Himself, His birth, and His travels to other countries. But one must start with the beginning of the general organization of Creation, as we understand it.

There is a drastic change in the idea of creation as given to us by Genesis. The very top level of creation is Creation itself. Creation consists of a series of laws which apply for all places and all time. The main parameter which

we are studying is the the frequency, or wavelength of the involved energy in each Myriad. These laws, as far as energy goes, are unalterable and unchangeable, even by God.

In Quantum Arithmetic, we must study the Myriad of Spirituality from the standpoint of energy and proper number values which apply in that Myriad. It Is pretty much accepted that primordial energy is generated or created in the first Myriad. It then cascades down to the Spiritual Myriad, to the Myriad which we call Light, and then to Matter, Ultra Sound, to Music, and then to Sub-Sound and brain wave frequencies.

There are certain artifacts in the Metaphysical Myriad above the Myriad of light. The one feature is that Thought energy falls in this Myriad while energy of emotion falls in the seventh, Sub-Sound Myriad. So all thought energy falls in this Myriad. A part of thought energy is the capability of Dowsing in, its the beginning of the general organization of our creation.-The laws of Creation.

Spiritual things also seem to occur in this Myriad.

Another artifact is the existence of Spirit Guides who appear to come from this Myriad. The idea of synchronicity between events concerning us on Earth also arises here, Hypnotism and all other psychic things such as clairvoyance, channelling, and all the other psychic aspects occur in this Myriad. In the past year the advent of the Photon Belt has had profound effects within this Myriad.

Little is known about this Myriad. High scientific circles avoid talking about it, and that is part of the reason so little is known. With quantum Arithmetic we can investigate it through the mathematical laws which develop for all Myriads. We can start to put together, the parts within this Myriad. in this context. But, first we must start talking and writing about it.

Let me start here with a descriptions of some of the many events which I have experienced. They all have a spiritual, but not a religious context:

EPISODE I -- THE SOURCE OF QUANTUM ARITHMETIC:

I will give you the beginning and the ending first. This all started in 1942 when I was completing my final course in calculus. Yes, I understood the calculus, but a thought kept running through my mind that, "There must be a better and more direct way to perform these mathematical operations." Within ten years I was on the way to the discovery of this ancient mathematics. But let me say, I will eventually be given credit for the discovery. but that credit is misplaced. My only contribution was to follow through.

As Socrates said, "I can teach a boy all there is to know without telling him anything. I will ask the boy questions and he will derive the answers from his own mind." That is the way Quantum Arithmetic was developed. While I was asleep, I would be partially awakened and a question would be placed in my mind. I could not go back to sleep as the question was asked over and over for what seemed like hours on end. Quite some time later I discovered that I could get up and write down the question, with the intent of answering it during the next day or days. Then and only then could get a sound sleep for the rest of the night. The next day I would answer the question, and that is the way Quantum Arithmetic was developed step-by-step over a period of 50 years.

Now I will skip to the ending which was in August 1988. This was after some 40 years and between 5,000 and 10,000 separate questions I had to answer and after I had developed Quantum Arithmetic.

I had been kept awake for three days and three nights except for a brief 2 or 3 hours of sleep between 3 and 6 AM. I was being questioned continually by my spirit guide and I knew enough about Quantum Arithmetic by then, that I could derive the answer in an hour or less, and the next question would be asked.

After three days of mostly skipped meals and no real exercise, I went out onto the porch for a brief respite. I could sense a spirit standing nearby. So, for the millionth time, I asked him

his name, which he would never tell me previously. Then he answered me with a single word, -- "Archimedes." I mused on that for a while and then told him that I must mow the lawn for the exercise, but it also needed mowing, being more than an acre in size, and had not been mowed for over a week.

I then, went out to the equipment shed where my riding mower was kept and started it up. I mowed the outer perimeter of the lawn and was half way through with the second round when Archimedes said, "I'd like to do that!" I was tired and thought I would get off the mower for only a minute.

But it was only my astral body which got off and went out to stand on, the lawn. Archimedes took over and finished mowing the lawn. I marvelled as he clipped by trees and other obstructions by less than on-half inch at a full throttle and about 10 mile per hour speed. I stood in the middle of the lawn the whole time in my astral body, seeing a small strip of grass here and there that he had missed. I wondered how he would correct that, and he did. He finished the lawn in the highest speed in 40 minutes, which was half the time it would have taken me. I put the mower away and Archimedes had disappeared. I (did not see him again for more than three years, in which time I started writing the present editions of *Pythagoras And The Quantum World*. I went to the house and got some food and much needed rest. That was the end of Archimedes.

Archimedes had given me the questions to answer over that period, from about 1946 to 1988, for me to learn Quantum Arithmetic. The questions were quite regular with three to five questions every week in that 40 years. So, there were between 8000 and 10,000 encounters with Archimedes. It is Archimedes to whom credit must be given for this rediscovery of Quantum Arithmetic. I deserve only the credit for following through on his questions.

All of his early questions led up to the question, "is there some kind of order to the Prime Pythagorean Triangles?" (The answer is in Table 1). To answer that question, I had to first derive the Fibonacci type Numbers which lead

to each triangle. To get the Fibonacci numbers in the proper context I had to read and restudy the entire 13 Books of Euclid. It was Proposition 28 in Book VII of Euclid, which was the key in this case.

June 1976 I was given the key between the Prime Pythagorean Triangles and what turned out to be Prime (Quantum) Ellipses. Three years later in 1979, I was into the solution of Music Of The Spheres, and started to develop that music, which I continued well up into 1991, for about 12 years.

That is a very brief history of how Quantum Arithmetic was developed. Before Archimedes would accept my answer to a question, he would always have the additional question, "Why?", and I had to give him the proof. These proofs would be given along the line of "Proofs" which were given in Chapter IX of Volume I of *Pythagoras And The Quantum World*. Another similar example of developed proof is given on pages 124 & 125, in Volume 2 of *Pythagoras And The Quantum World*.

Quantum Arithmetic has now begun to take, its place in the search for New (aetheric) Energy. Most, if not all, of these researchers will have to incorporate it in their search, to reach success. But more than that, they will have to have a similar kind of spiritual guidance and protection to reach fruition from their search. They will not only be required to accept guidance, but they will be required to acknowledge that they have utilized such guidance, and give credit where credit is due for that guidance.

As things stand in the discovery, they all make the grand mistake which we found with Lord Rayleigh, of misinterpretation of results. In their search for New Energy, there is not a single researcher who has, or ever will reach fruition of their efforts, without this spiritual help, and acknowledgement of its presence in their discovery. They will all make the grand mistake which we found with Lord Rayleigh, of misinterpretation of results. It will eventually lead to failure. This is the way it is and always was. Contemporary science has come to the end of their rope for these omissions. In

the past year (November 1995 through October 1996) I have learned that the past scientists, now in the Spirit World, have come together to help any researcher who is willing to accept them. They want to help us in any way they can, but even they do not always have the answers. They are encouraging us to find those answers, although they will give us a pointer here and there along the way. In this same way, I discovered the answer to Music of the Spheres.

In those last days when Archimedes was with me he confided to me that the notes which were found in the basement of the Vatican on "The Cattle Problem" were a part of the correspondence between himself and Eratosthenes. Only the translation had been made. He said he had not solved the problem but assisted me to do so, on my own. In fact he was trying to solve that problem when he was so rudely thrust through by the Roman Soldier's sword.

EPISODE 2 -- THE NDE (Near death experience)

The time was 1:30 PM on December 15, 1986 when I experienced an NDE. I am here today only because of help from a very unusual source. Several people have come forward since that time to help me understand. I will give you the story as I wrote it about three weeks later on January 8, 1987.

If It has now been three weeks since my accident at 1:30 P.M on December 15, 1986 and I can now start putting things back in perspective. As I reconstruct the series of events immediately after that, I have learned of things which could not have occurred in any other way. It was a "near death" experience and not recommended for anyone else.

"To set the scene: There were two trees, which were about eighteen inches in diameter, and as I later measured them they were about 120 feet tall. They had been tilted at a forty five degree angle and had hung up in nearby trees. I had decided that the time had come to bring them on down.

"As I completed the cut on the first tree, I

saw it break loose from the stump. It did not simply fall to the ground. It was aimed directly at my head from the bind the tree had been in. I did not see the binding because of interlacing limbs of this tree and the trees in which it was hung up. It was aimed like a batter swinging that huge baseball bat.

"My first thought was, "Oh, No! I can't go now, I still have too much work to do!" I certainly did not say that because there simply was not time in the milliseconds before it hit. I saw it for sure when the butt of the tree had travelled three feet and was only one foot from my head, and travelling at great speed. At that point, all time stopped and each millisecond became a minute or longer. For the next two hours I saw things only in stop-frame pictures.

"The whole thing took only milliseconds. I watched it as it slowly contacted me directly on my nose. Then I felt it slowly crush in and the bone crumbling being compressed into the center of my skull. Picture by picture it unfolded.

"My awareness was in milliseconds but my reaction time of my body was still in normal time. I could not move in the space of time I had left. I felt it crush in but there was no pain as I was thrown 12 feet. X-rays later on showed that the bones of my nose were demolished and the under side of my skull was cracked open appreciably by the force of my nose being crushed inside. The tree did not hit my upper jaw, nor did it create any breakage of the bones around my eyes, But the blow literally ripped my nose off my face and pushed it completely inside. I found my glasses in the next few days where my head had fallen. They were unbent and unbroken.

I had been thrown some 12 feet but the tree was not yet done with me. In the following milliseconds I saw the tree about to land on my chest and crush the rest of life out of me. My body twisted convulsively as I saw the tree approaching. It struck a glancing blow and cause damage but it was several days before I realized that I had three broken ribs, and a severe whiplash. My coat and several layers of clothing were ripped from my chest but no

skin breakage.

"I had delivered my thought message that I was not ready to go, before I passed out. I do not know how long I was out because I am sure the accident did happen before 1:30 P.M. Whenever that time was, I had no account of time until I next saw a clock which was 3:20 P.M.

"Some time later I heard the chain saw still putt-putt-putting away where I had dropped it, as it fell from the tree stump. I got up, turned off the switch on the chain saw. At some point my spirit left my body. It was as though my spirit had been called back momentarily to take care of it.

"Later and still unconscious, I picked up the chain saw, along with my ax and two wedges. I almost immediately heard a loud voice say, "You must get back to the house." Then it said "Leave the tools! You've gotta get back to the house. You need help" I dropped the chain saw, axe and wedges, but the next day, I found that I had carried them more than 40 feet. I had somehow walked through swamp, brush, sharp thorns and mud, carrying those heavy tools. I was lucid, for less than a second, in putting down the tools, before passing out.

"Next, I had walked another hundred feet through swampy ground, when I next heard the voice say, "Which way?" I found myself standing in the middle of the trail weaving around in a drunken stupor and barely able to stand. I turned the direction toward home and passed out again.

"Somehow, my unconscious steps were toward home, but I had walked only thirty feet. I had stepped off the trail into the ditch and had fallen. My spirit re-entered my body for the fifth time. I was righted and on the edge of the trail in two stop-frame pictures for the sixth and last time. I remember thinking., "There is a narrow three-foot wide footbridge across the stream, and beyond that more mud, and there is a sudden turn to the right as join the next trail". My dog standing nearby, was the only witness. She was very concerned.

"Finally, I regained consciousness, and found I had walked three more city-blocks

through the forest. I was at the door to my home.. The door was locked because my wife had gone to town for the afternoon. For the first time I noticed the blood dripping from my face and realized that I would need help.

"During all of my period of unconsciousness, I was not aware of my body. I was aware of only one thing. There was huge tunnel, appearing like a huge culvert, some twenty feet in diameter that was snaking off toward the north. It first appeared before the tree contacted my nose . I was paying no attention to my body, walking the trail, but I was aware of the tunnel following me all the way to my home. It stayed twenty or thirty feet away. There were many trees which were in its way but the tunnel seemingly passed through them as though they were not there. Each time I was needed, my spirit would scramble away from the tunnel entrance and attend to my body. The tunnel was gone when I finally regained consciousness on reaching the house.

"I reached in my pocket for the keys. My fingers were covered with blood. I had to get help. It was twenty miles to the hospital and I was in no shape to drive. I phoned the hospital but they said there was no available ambulance. I phoned a neighbor lady who gladly drove me to the hospital. I had blood spatters on the floor, on the stairs, on the door knobs and on the phone. I cleaned them up as best I could so my wife would not worry. I left a note telling her I had a nosebleed and the neighbor had taken me to the doctor.

"Then I picked up a towel to catch the blood from my face, and I also picked up an empty tin can from tomatoes to hold it under my nose in case there was too much blood for the towel. My neighbor was busy watching the road and had no time to look me over. She drove very carefully, arriving at the emergency room about 4 P.M. She went into the lobby after depositing me in one of the examining rooms.

"The doctor entered and cleaned me only enough to measure the damage. He plugged my nose with gauze to stem the flow of blood and put me in a wheelchair to go to the x-ray lab. My nose had swelled, forcing it into a

normal position. The doctor also had put three small adhesive snips. on the bridge of my nose which had been torn from cheek to cheek.

"I still did not realize how badly I had been hurt until the technician said, "Do not close your eyes. You may never wake up again." I must have been a horrible sight. Seventeen x-rays were taken for skull damage. Some of these showed the break in the under side of the skull. It must have been substantial because it was several months before my jaw bone would accommodate the extra width of my skull. The x-rays did not show the whiplash fracture at the base of the skull or the broken ribs which were to cause more pain and trouble in the coming days. I was still unaware of this damage.

"With the x-rays over, I was wheeled back into the examining room. I had to wait for the doctor, so I asked the nurse to send my neighbor in, because she had been waiting nearly an hour. My neighbor finally came into the room. I was a bloody mess with my coat, shirt and underwear all torn and saturated with blood down to my skin. She started to clean me up but handed me the kleenex and went out into the hall where she fainted away at the sight, having seen me for the first time in reality.

"I was released about 5:30. The doctor wanted to put me in the hospital but I declined. We drove home without much conversation. My wife was quite surprised to see the state I was in, from the "nosebleed". I was bloody from head to toe and my clothing was torn and bloody.

"It was about ten days before I could again breathe through my nose. The tapes had held it in place quite well without stitches. I must have had some supernatural help because most of the discoloration had faded and I was up and around again. Eating was a slight problem because of the wider head and the original width between my jaw bone hinges. I had to wear a neck brace continually for the next year, and the ribs had healed up in a little over a month.

"As the original accident was happening, my spirit immediately sized up the situation. It

had gone through similar experiences countless times in previous lifetimes.

"My soul was left in my body to do the best it could. Then it had the sporadic help from my spirit as it was called to return to my body each time it was needed. Other than those five times when the spirit returned to my body, I knew nothing about the long walk of over a quarter of a mile to get home. I do know that my body had been in the arms of death for an hour or probably two hours. But there was very little pain, for the past three weeks."

"EPISODE 2 raises many questions, but it answers some. My spirit decided it was not time to go into the tunnel. Now that I have regained my senses and reviewed the experience of the past three weeks, I feel it is time to put it down on paper while the memories are still fresh. Death is not something to be feared. It is a journey to new beginnings. Death is a chance to discard an old and worn out body in exchange for a new one. As Plato wrote, 'It is like putting on a new coat after discarding the old one which is of no further use.' In the past three weeks since December 15, 1986, I have had reason to test whether I am in the astral world. I am in the Material world."

I was to put this learning to good use in the next 18 months.

EPISODE 3 -- ONE WHO MISSED THE TUNNEL.

On July 13, 1988 I was sound asleep when I heard someone calling my name. I could not arouse myself immediately. I next heard a lady crying and calling my name. She was sitting on the edge of my bed and crying. I sat up suddenly, and she said, "Why doesn't anyone love me anymore? Why doesn't anyone care?" Then I recognized her. Although she was much younger than I remembered. She was my Mother.

I stood up. Then picked her up and cradled her in my arms as one would cradle a child. She was as light as a feather. I told her, "But we do care. We all love you very much." Then I went on, "Mother, You shouldn't be here. I had to step out of my body to come and meet

you in the astral world because you did not move on to the spiritual world as you should. Mother, you died 37 years ago, and I am now 70 years old myself. You were only 61 years old and would be 98 years old if you had lived."

It was only then that I realized that I was out of my own body and looked back to see It lying there on the bed beside me. The difference between the actual living world and the in-between astral world is so slight that Mother could not realize, until I told her, that she had died.

Everything In the living world has its astral counterpart. In the astral world one can see into the living world but cannot go there, if they have died. What they see is the astral counterpart of everything in the living world. Nearly the only difference is that there is no solid matter, as we know it, in the astral world, (or is it the other way around?). However, no astral body can occupy the same space which is occupied by an astral counterpart of another body.

I explained to Mother that she is to go into the tunnel and to the light in order to get out of the astral world and enter the spiritual world. She must do this before she can enter another newborn body. When she understood, she heaved a final sighed of relief. She faded and disappeared from my arms. I returned to my own body

What brought on this episode after 37 years? Everyone can and does enter into this astral world at times. It happens in our dreams, or it can be done by meditation. These dreams are very real and sometimes have some very advanced information. In these dreams one will meet others who live in the astral world as did my Mother. Often we will not recognize these astral figures. They will lead us on a "merry adventure" if they are good astral spirits. If they are mischievous spirits they may lead us into a nightmare.

I had had, in the past, many such dreams of both kinds. If I found a malicious spirit I had learned to simply tell them to "go away" and thus stop the dream. But since this astral inci-

dent of my Mother, I decided to advise the astral spirit, good or bad, of the route they should take. In fact, on the day before meeting Mother's astral form, I decided "Maybe these spirits need help in understanding their situation. If so, I will help them if I can."

This change in my attitude and change in my personal goals allowed Mother to get through to me, and allowed me to recognize her, and to help her. She had only to approach me and call me to her astral world while I was in a dream state. I'll not see her again in my dreams because she has gone on, and is free to proceed on her journey of further spiritual development in a new body.

After my accident, there were times that I wondered if I too, was in an astral world. Is it possible that I am already in the astral world since I refused to go in the tunnel.

The doubt arises from what happened to me eighteen months before my adventure with Mother. I should not have lived through the bashing of what happened from that tree. I was in the throes of death for two hours. Somehow, my body managed to walk the quarter mile to the house through swamp, bushes and vines and across a narrow foot-bridge, and a very wet and muddy trail while completely unconscious. My face was bashed in, yet there was never any severe pain from it, and the healing was quite rapid, as though I was getting some supernatural healing help.

Episode 4 -- ON TO DUCK HEAVEN

The accident finally helped me to understand a happening which occurred several years earlier. I had killed a white drake from my flock of Muscovy ducks. He was to serve us a meal. After chopping off his head I held him by the feet with one hand. With the other hand I held him up so he would not get blood on the pure white feathers, and soft duck down, which I wanted to save.

I was holding him facing east (except his head lay on the ground and he had no face.) He flapped his right wing violently as if to turn. Then I faced him south and both wings flapped violently. I turned to the west and only

his left wing was actively flapping. When I turned him to face north, the violent flapping turned into a graceful flight as one sees in the flocks of passing geese. This drake was telling me that he was finally leaving this life behind and was heading "home".

Why did he choose North? How did he know which way was North? Was it like the tunnel, which I saw that was leading to the North, after my accident? There is that possibility.

What do these four episodes have to do with Quantum Arithmetic? We are trying to determine the parameters of the next Myriad above the Myriad of Light. Can we extrapolate from the lower Myriads into this higher Myriad of the Metaphysical? It appears that we can begin to see this next myriad, as composed of seven octaves.

EPISODE 5 -- AN EPILOGUE

Episode 2 was with me for most of the past ten years. It was on my mind, questioning what really happened behind the scenes.

In 1989 I joined a local Dowser Society. Dowsers do not just find water sources. They learn to have access to a much wider knowledge. They have a question and the first thing they ask of "a higher power" is, "Can I; May I; and Should I inquire to that certain subject?" If the answer is "No", there will be no search even though no reason is given. If the answer is "Yes", then the Dowser is allowed to proceed. We are not allowed to interfere with the life and well being of another. Nor are we allowed to accept gratuities for our work.

One of the first things I inquired into was my own self and condition of my own spirit. I was told by other dowsers that I had two spirits, and a kirillian photograph also showed a different aura on the two sides of my head. I dowsed the question and it was true. The other Dowser said it appeared that my second spirit was foreign. I dowsed, and found the second spirit was from the Star system of Sirius. His spirit had wanted to reincarnate on Earth. He wanted to learn more about our human society, but did not want to go through the child-

hood or adolescent years. He had been a major ruler of one of the Nations in his Star System. It was he who walked me out of the woods after I died. He stayed with me through the healing process.

What was unusual was that he agreed to accompany my original spirit in his learning process. We would both live together in one, body.

Three or four years ago, another Dowser who is a close and dear friend, confessed to me that he was a "Walk-in" since he was in his teen years. He felt then, 50 years ago and feels now, that he is still a foreigner in this land. He described his life as a "walk-in", It was then that I realize that I was also a "part walk-in". I kept track of my two spirits through dowsing.

About the first of 1996, my original spirit decided that it was time to move on, since most of the books were written concerning my past 50 years of research in Quantum Arithmetic. This left me in the good hands of my "walk-in" spirit, but all of my original memories stay with me. I have never been privy to the past memories of my "walk-in". My original spirit has moved on beyond the Astral plane while the Sirius spirit has put on this old overcoat of a body. He is able to keep it going in spite of serious setbacks.

Being a proficient healer, he has seen me through a heart attack. He took care of my body after a serious auto wreck. In spite of recurring aneurysms he has been able to bring them under control. He saw me through a chemical poisoning in which I could have lost my eyesight. Yes! The medical doctors were on hand and making their attempts to save me, but were ineffectual -- even to the point of exacerbating the problems. I had to tell them hands off and that I was a Healer. My walk-in made efficient cures, even as I approach age 80 years now. I have faith that he will continue to do so.

CONCLUSION:

There are two reasons for telling these very private thoughts. The first reason is that they

are all Metaphysical and lead to a better understanding of the Metaphysical Myriad. Putting them all together from the different areas of the Metaphysical gives a smattering of an idea of how it works.

The second reason is purely Metaphysical. About a year ago, a new Guiding Spirit has stepped in to give me a different goal. This Guiding Spirit is one of several prominent scientists who are working together in the Spirit world. Their whole group is seriously concerned about our civilization, and our rudimentary state of general knowledge. They want the world to know that they are watching, waiting and helping where they can, through perilous times ahead.. Though a Channel they send us messages of a very technical nature which we check out and find to be true. They have told us about specific properties of various elements and how they are to be combined and used to produce New Ener-

gy.

But their main message is to start accepting the help of the Spirit World if we hope to avoid our continuing plunge into self destruction. They tell us our science is oriented almost exclusively around matter instead of around energy. Matter is just one of seven kinds of energy. Energy is classified by wavelength, or frequency and the Spirit World is just one of many different worlds, all of which are formed of energy in different frequencies and combinations. The next four chapters will continue exploring this subject.

Chapter 7

METAPHYSICS MYRIAD

Ultraviolet Light is the 50th octave. The Astral octave appears to be just above that, with the 51st octave relating to the aura of living bodies. Now let us say that the "Light" which the discarnates must go to, is the next octave above making it the 52nd octave. Then the spirit world itself may occupy the seven octaves, -- 52 through 58, which is sometimes called "4th Dimension". The astral spirit will have to cross to the next dimension, or next Myriad. This may provide a hypothesis from which to work. Let us look a little further.

Before going further we must observe certain cautions. There was not much interpretation of observations given in the last chapter. In Quantum Arithmetic we are not allowed to make, and accept unchecked and unproven interpretations. The final acceptance may come at some distant future time, when we can correlate the observations with mathematical values that are proven through Quantum Arithmetic. All we can do at this time is to try to classify and to catalogue our observations into certain progressive categories.

There are no mathematical values available from empirical sources for anything in the Metaphysical Myriad. As Quantum Arithmetic developed to this stage, there were empirical values available from the various lower Myriads. That is not true in the Myriad of Metaphysics. The episodes described were only a beginning. There are millions of episodes from which to draw. Given enough of these, we can begin to draw trends which develop along the same lines, but it may mean another pitfall. How can we verify the truth of any given report?

So these four chapters must be taken only as a trial run until we can feel very very sure that we are working with the ultimate truths, only the truths, and nothing but the truths. So

far, we can only say that it appears we are working with a new Myriad which lies between the Light Myriad and the Creation Myriad. All the rest is guess work until we have built our data base, and evaluated it.

Having said that. Let us get to work starting the data base which we will need. Eventually, we will be able to overlay this data base over other Myriads, and hope for a match. That will only be a lead. It will not be acceptable proof.

OTHER ADDITIONS (Miscellaneous)

(1) In the late 1970's our daughter was having troubles with unwanted psychic invasion. She was in San Francisco. I was in Seattle. I managed to go to San Francisco, in OOBE. There was a group doing psychic research in the area at that time. I found one of the members of the group and managed to correct the situation. This trip took only about 20 minutes. Then I went back the following day because I understood the whole group was meeting. I met the seven or so members and yes, they had received my previous message to lay off. Our daughter was no longer bothered by them. You have only my word on this.

(2) In this present year I began to investigate discarnates, (astral bodies) which attached themselves to living people. One case was a person whom I met nearly every day. He had become very emotional. I asked for permission from higher spiritual beings, to help. Then I dowsed for unwanted and unhelpful astral beings. Finding them, I advised these discarnates that they had died, and were in the in-between, astral world. They should go through the portal to the next dimension to the light. They went willingly and quickly. Just as quickly, the person who had been their host, returned to his cheerful and natural self.

He is a person who is rather unsure of himself and lacks self confidence. I have continued to observe him. He has relapsed many times with new discarnates. So I have had to repeat the process many times over the past six months. It is amazing to see the changes in his personality each time I have removed a new group of discarnates. So far I have encouraged more than 150 discarnates to proceed to the tunnel portal. Now I have started to put white light protection around the individual. This had reduced his relapses. The response has been rather amazing. In addition to emotional improvement, he has had great improvement in his health, but only between relapses. It works.

(3) In the few weeks before Archimedes bid his final farewell to me, I had a 4-year old neighbor boy, who told me amazing stories about past lives mostly in Roman times. He is now a teen-ager. Visiting him recently, I find that he has no recollection of some of the physical events he described to me earlier. He had totally forgotten them in his conscious memory. That is the subject of another chapter. These three bits of experience will fall in the lower octaves of the Myriad of the Metaphysical.

Number (1) concerns manipulation of ones own spiritual self, in planned Out Of Body Experience (OOBE). This involves energy frequencies as the top of the Light Myriad, and enhancing these to the bottom of the Metaphysical Myriad.

Number (2) gets into the activities of discarnates in a little higher stage. It is the top of the Light Myriad, and bottom octave of the Metaphysical Myriad.

Number (3) concerns memories supposedly retained in the super unconscious which are attached to the spirit and soul and may continue through several reincarnations. This involves several octaves in the middle portion of the Metaphysical Myriad, probably the third or fourth octave for memories.

The "conscious" is that part of the unconscious which applies only to the material world. There are several stages of the uncon-

scious. The part of the unconscious which retains the history of an individual soul, is called the memory, and the memory of that soul lives on even after the body dies.

When a spirit returns to Earth in a new body, the unconscious also returns to the new body at some time after birth. There are records, in India, which show cases of the soul not being joined to the body until one child was six years old, but generally the soul joins the body at or shortly after birth. With the joining of the soul to the spirit, the memories of the previous earthly life will return to that child.

Parents are so prone to erase those prior memories because they are in the context of a time perhaps two hundred years earlier. Surely, some of the memories are outdated, but the child will reorganize, and save those memories which are in context with his or her new life. The outdated memories will be builded upon and revised to meet conditions. After many lifetimes each soul can gain enormous knowledge, and part of that knowledge is "Know Thyself". In the statement, "Know Thyself" one must know their soul which has been termed by various names. One of those names is the "unconscious" of a person.

This brings us to the very reason for our being. Our being on Earth is to gain knowledge. In order to advance further in science today we need mathematics, (Quantum Arithmetic), which is used by Nature. The mathematics and Spirituality, are being used in the development of several successful ventures into discovery of New Energy.

By gaining knowledge in all areas, one begins to Know themselves better. What better place to start than in studying Creation through studying mathematics? The problem with that is that the mathematics we commonly use today is NOT the mathematics of Creation. Science has touched upon the mathematics of Creation in such basic things as the Periodic Table of Elements, and in Music but they still do not have the mathematics. The mathematics of music also depends upon the mathematics of Creation, but neither do musicians have the mathematics of Creation. The

mathematics of Creation was once known more than 2000 years ago. It was used by the Greek Mathematicians but it died out shortly thereafter. There were ancient civilizations more than 10,000 years ago, and up to 70,000 years ago, Who used the full extent of the Mathematics of Creation. We are recovering that today, as Quantum Arithmetic.

Creation, with which we are concerned can be studied by learning the precise laws which apply by using the prime numbers as a base. But the purpose of this chapter is not to explain the mathematics. It is to explain the body, spirit and soul, in terms which have been unknown to us these several millennia. In this way we can learn more about the Metaphysical Myriad.

"The oldest souls of today have the knowledge of this mathematics buried in their ancient memories, but it has been overshadowed by the current inept teachings of mathematics. There is no substitute for truth. The oldest souls remember this mathematics, within their unconscious, but when taught today's mathematics, they find conflict with those earlier memories and a mental block against any form of mathematics is created. That is the reason so many people hate and fear mathematics, today. They have been confronted with an untruth which was taught to them as the ultimate truth. In their unconscious Soul, the untruth was recognized, but this memory has never reached their conscious Soul.

These are given as a basic examples of the problems which confront us in giving our soul a chance to express its unconscious memories. But therein lies an answer. The spirit and soul is a microcosm of the universe. This soul does not need to be educated, because it already has all knowledge. It has all of the knowledge of the past, but being free of the space/time dimension, it also has all knowledge of the future. We do not recognize this because very few are in touch with their unconscious, or with their soul, to that depth.

There are two ways to get in touch with our soul. One way is through meditation, but it is a very unsure way because those untruths in our conscious memory get in the way. We can not

be sure of, or trust the revelations we receive through meditation. The other way is the natural way which has been set up through the laws of Creation. It is a slow and tedious way but its results are sure, if one follows the other laws of Creation. One particular set of laws are the laws of Love, Charity and Gratitude. This way leads to the gaining of knowledge and truth at each sojourn on Earth.

Many have run afoul of these laws in their progress toward perfection. In doing so they have tended to diminish their soul through practice of Greed, Hate, and Intolerance. When these practices harm their fellow beings, such an entity is in danger of losing their spirit and soul. When that happens they do not go to hell after death, they simply gather karma and may risk disappearing into nothingness.

Organized religions teach the worship of Jesus, but Jesus, states in the Talmud of Immanuel, that one who worships him as a God, has already failed. Jesus taught that he was an ordinary man with a soul which was advanced enough to bring the message of Creation, at that time.

Jesus had the same spark of the Christ Spirit which every soul has. Buddha was another such man with the same message, 600 years earlier as was Mohammed, 600 years later. They were all the same Christ Spirit. But We, call them Buddha, 600 years before, Jesus, with the same message, as was Mohammed, 600 years later. They were all the same Christ Spirit.

If any one has even minimal contact with their own spirit and soul, as "know Thyself", they begin to have the ability to contact one of the higher spirits, which are known as "Spirit Guides". These work to assist mankind. The "Shasta People" appear to be of this advanced type of group.

There is a New Testament Book of Immanuel, or Talmud of Immanuel which was omitted from the Bible. It describes the life of Jesus, and the period after he was crucified. I am told there are only six copies in the world. I have a recent English translation. It tells of Jesus in

India where I learned from the Hindu religion, the ability to enter suspended animation, which was his condition on being placed in the sepulchre. He and a large party of his family and others then are supposed to have gone to Europe, Ireland, and then on to North America. This last could have been the origin of the "Great White Father" of the North American natives. The Metaphysical has always been claimed by all religions, and has been their mainstay. In our scientific order of things, religion should be and should stay in the next Myriad, the Creative Myriad, There is really nothing which is magical in the Metaphysical Myriad, it is only magic when it is not understood.

Perfection is achieved on Earth, when a spirit and Soul has no need to return to a new body for further improvement. But even then, many choose to return in the spirit form to assist others, and to assist humanity.

I still do not understand exactly what happened on that December day in 1986. It could have been something of which I have been hearing lately. I really should have died on that day, and I cannot say that I didn't.

The main purpose for being on Earth is to gain knowledge and truth in all areas. The negative part of this is to eliminate the untruth which has been previously learned. Sometimes that is a difficult task even in a single lifetime. For instance, when one learns music through the chromatic scale, they must be able to unlearn this, and recognize that Creation has its own musical scale. It is called "Music Of The Spheres". Most find it difficult to revise this memory within music, in favor of the truth. They will not find it any easier in other areas. The mind must be kept flexible to accept truthful knowledge when it is encountered.

Then, there is the "walk-in" as the one which took over to salvage my body after my accident in 1986. I have been learning about "walk-ins". These are higher level spirits who want to reincarnate but do not want to go through the process of rebirth through being a baby and the growth (and miss-education) through the 'teens. They are often from other

star systems and sufficiently advanced that they can enter a perfectly good, but dying body. They can take this dying body and bring it back to health with all of its previous memories intact. The original spirit passes on but the advanced spirit takes his or her place within, the abandoned adult body, and nurtures it back to health. They reincarnate without going through the birth process, and are called "walk-ins" I believe this is what happened to me. However, there is an exception. I maintained my original spirit as well. I believe my spirit struck a deal. I noticed no change. There seems to have been a nine year transition. My walk-in came from the planet system of Sirius, where he had been a ruler.

When a spirit and soul has progressed beyond the need to occupy an earthly body, there is higher progress to be made. It appears that my original spirit passed on to the next dimension in November 1995 after a special period of "enlightenment". I had written six books in that period, 1986-1995. Two of the books are revised editions of books, which were compiled from previously written desktop books. The others are compilations of many articles which were originally written many years earlier. That may be the natural evolution of books. It does not require a walk-in for that. This present book is underdirection of my "walk-in" spirit.

To say, there was a walk in), will explain many things about the accident,. It may have been that the old and new spirits had agreed to work together to salvage the body. This explains why the brief periods of lucidity when the original spirit was called back to accomplish the task of getting the dead body over an unanticipated difficulty. It also may explain the lack of any memories of the longer periods when my body was in the unconscious state and in the control of the new spirit. This allowed my original spirit to contemplate the tunnel and released it from further obligation other than writing the six books. So I will have to leave you with many questions, "Is the Tunnel real? Is it a portal to another dimension and another Myriad?" "What is the order, and depth of our spiritual development?" and "?? ?".

The truth must be known and the Truth will make you free. Our brains have been filled with many untruths which have been accepted for so many ages that they have become accepted as the final truth, but are not. Quantum Arithmetic has proven this without a doubt, within mathematics. An entity can make progress only while in a living material body, and that is the real purpose of life. Spiritual development does not occur in higher dimensions. The wheel of life goes on and on. Each turn is supposed to reach a new and higher goal for the spirit, while it is in a material body. My present Sirian spirit wanted a short sojourn on Earth to personally learn and observe Earth's human civilization.

The first thing about which we must learn the truth, comes in the term "Know Thyself!" What is a human being? We have come to accept that our capabilities are so restricted that there is not much hope. This is not true. The human being is a microcosm of the universe. Each human being is capable of anything which can be imagined. But each person must know themselves first. Those who believe we are super intelligent, tend to ignore any information about a spirit or soul. They call themselves "skeptics", and probably will always be.

The human being is much more than just a body. The body is only the temple in which the major part of the human being, resides for a time. We need, to drastically change our thinking about the space time dimension. These apply only to the material world in which the human body resides. Beyond this there is only the spirit and the Soul. A major problem against any change, comes from our interpretation of spirit and soul. The interpretation of today was to us by organized religion. It has no scientific basis.

In the quantum world each octave is permitted to have 5040 frequencies, but only the 144 are strong enough to be considered separately. That leaves 4896 frequencies which are much weaker quantumwise. Of the 144 frequencies used 12 to 18, are much stronger than the rest. Of this 12-18 frequencies, seven frequencies are still stronger, and of these seven there are four which are really important.

This seems to establish an hierarchy within each Myriad and within the system of octaves of each Myriad. We find this hierarchy in music, Matter, and Light. Is this same hierarchy found in the Metaphysical Myriad?

We can use this generality extend to the other four Myriads of energy being the first, Creation; the second, Metaphysics; the fifth, Ultra Sound; and the seventh, Sub-sound. But there are other generalities which can also be used to study these four missing Myriads. They are missing primarily because we do not have the sensory organs to perceive frequencies in these other four Myriads. We have also failed to establish any empirical number values in them.

We have some evidence of the Metaphysical Myriad. We can assume there are seven octaves, but cannot prove it. If it does, it would seem that the lower octaves will start with the Spiritual domain. Quite possibly the Christ spirit is in the seventh octave or the top of the Myriad. Can we find a way to fit other metaphysical artifacts within these intermediate octaves?

This problem cannot be solved overnight. If we keep working at it like I have worked for over 50 years in developing and recovering Quantum Arithmetic, it is possible that this problem can be concluded. Possibly the biggest part of the problem is for one to overcome the tendency of the general population to try to maintain the *status quo* and refuse to discuss the Metaphysical Myriad in any terms. It is only a mental block brought on by a useless taboo in our civilization.

All things which are created are created out of the energy of the aether. The more the aether is densified the more complex will be the thing which is created. So, the metaphysical Myriad consists of a series of bound aetheric energy fields which are less dense than the matter of which we are composed. In this same way but to a lesser degree hydrogen is less dense than helium and so on up the Periodic Table of Elements. In the case of the Metaphysical Myriad, the aether is even less dense than the density of aether of the Hydrogen which is non-Metaphysical.

The last chapter of this book involves studying how the aether of the higher Myriads is put together through the Torus, and the whirlwind of the Vortex. Even here it is only a start but there will be another book which carries our knowledge forward, by Dr. Elkins.

Chapter 8

CHILDREN AND THEIR PAST LIVES

The bible says, "Listen to the children". It is such an innocent statement, but children can be a source of a great wealth of knowledge which can be gained.

This is not mentioned in the ancient texts from Greece and Egypt, but the background for it is implied in all of their investigation and reporting of the "after-life" experiences. From these ancient reports, and from our present anecdotal reports, it is possible to trace a trail which one travels from lifetime to lifetime.

The first stumbling block on the way is in the Modern Christian church teachings that there is "resurrection" and no reincarnation. Up until 425 A. D. all Christianity taught reincarnation until the Bishop of Alexandria, and Emperor Constantine decreed that the teaching would be of "Resurrection" and there was to be no "reincarnation". Nearly every other religion still teaches the idea of reincarnation. Some of them consider past memories of children.

Our present anecdotal reports of after-death and near-death experiences can lead one to understand the first part of the trail one follows, and helps to understand the condition of the spiritual portion of each person's entity. There is the person's spirit hovering over the discarded body and looking down on it and its material surroundings of familiar people and things. As far as the floating spirit is concerned, they have entered a period of timelessness, so it is impossible for a victim to know how much time passes, in terms of time on Earth.

The next step along the way is the appearance of a long tunnel which invites the spirit to enter. In my own case, this long tunnel seemed to be a metallic pipe about twenty feet in diameter and was snaking away toward the north.

In my own case, I was determined, and said, or gave out the thought, "I can't go just now. I have much work still to do in Quantum Arithmetic". With that I was still in the astral realm. My unconscious body was being carried, or manipulated to walk in the unconscious state for nearly a quarter mile. During this walk there were a few incidents in which consciousness returned for me to make conscious decisions about the pathway back to safety. My spirit savior did not seem to know where I must go for home and safety. In between these moments of lucidity I was again unconscious but this tunnel followed me all the way back to my door. In following me I noted that it seemed to pass through the objects which were in its path. I knew nothing of the walking back home. The tunnel disappeared when I reached my door and regained fairly full consciousness, but a full two hours of Earth time had passed during this period. I found that I was still bleeding quite profusely had a severe head wound and a skull fracture which should have killed me. It was another day before I realized that I also had three broken ribs, and a dislocation of my neck.

On first arriving at home, I asked a neighbor to drive me to the emergency room of the hospital some twenty miles away. There I was taken to x-ray room where eighteen pictures were taken. The technician warned me, "Don't shut your eyes because you may never wake up." I must have been a terrible sight in my torn clothing and blood stained from head to toe. When my neighbor came into the examining room some time later, while I was awaiting the x-ray pictures, and the physician, she came into the room and immediately walked back out into the hall and fainted dead away.

At the beginning of the accident I had seen the butt end of a fairly large tree coming di-

rectly at my head. I knew this was the end, and in that split second I said, "No! I can't go."

Before the tree struck me I went into a "stopped-time" mode. I saw the tree getting closer in several "stopped-time" views of it. The tree struck me full in the face and threw me twelve feet as I measured it later. From the time of contact until I reached the door at home I was unconscious but there were fleeting moments when my consciousness was called forth. The first was in the few minutes after the contact. The chain saw was lying on the ground and I was told to shut off that motor. A voice also said, "We must get you to home and safety."

The next moment was a voice saying, "Put those tools down! You can get them tomorrow." I had been carrying the chain saw and some fifty pounds of tools through deep swamp and heavy vines and brush. When I found them the next day I found that I had carried them nearly one hundred feet. In the moment of consciousness, in another stopped-time view, I saw them placed on the stump of a tree I had cut previously, but I had a death grip on them. I released them and immediately passed off into unconsciousness again. After walking another hundred feet across muddy ground I had miraculously gotten on the trail to home, but still another quarter mile to go. I was brought to consciousness momentarily, with the question "Which way?" my guide not knowing the trail to home. I was weaving badly. This time there were stopped-time pictures. In the first I saw I was facing the wrong direction and my dog was curiously watching. In the second I had turned in the proper direction and immediately went unconscious again.

The trail was narrow and I had stepped off the trail into a ditch and had fallen, at which time I was brought back to momentary consciousness. Again there were two stopped-time pictures. In the first I was lying in the mud of the ditch. In the second I was standing at the edge of the trail.

I remember thinking that I must be careful not to fall off the narrow foot bridge across the stream and I must remember the right angle fork in the trail beyond that. Apparently, what-

ever was guiding me, took that thought in their own mind and I did not recover consciousness for the last quarter mile. I had no memory of it. I was aware only of that tunnel following me, cutting through trees as though they were not there.

Several days later I was remembering in retrospect, what had happened and how I had made the, unknowing, (except for the stopped-time pictures), trek home. The injuries were severe but recovery was rapid, except the severe whiplash. It was several months before my lower jaw would fit properly in its original sockets because my skull had widened and my jaw bone had not. It did not fit and I was unable to chew food for several weeks.

The explanation of what it was that saved me was a mystery. On thinking it over, I recalled a different experience several months earlier. On this occasion, I had killed a white Muscovy Drake in preparation of it for our dinner table. I had cut off its head but I did not want it to get blood on its beautiful white and plumage. I held its legs in one hand and my other hand was under its breast.

As I held it there it was furiously flapping only its right wing. I was facing to the east. I turned to face west and the left wing began to flap furiously. Then I turned to face north in the same direction that my tunnel seemed to extend. This drake started a graceful rhythm with both wings. It had the appearance of the geese as they fly north in the spring. The body of the drake wanted to fly north.

That drake was actually trying to fly into that same tunnel which I saw in my own experience, but he was beheaded and had no other option. I had nearly ended up in that same condition in my own experience with the tree. The difference was that I had the option of refusing to go. When I refused to go, the rescuing spirit took over and a deal was made for it to allow my body to continue to live.

These are the actual facts in both cases as nearly as I can reconstruct them. The stopped-time pictures gave me information which helped me to understand and interpret my two-hour death experience. That was all I had to

go on.

Other features have helped me to understand the probabilities as they derive from the Natural Mathematics. The body many die but the soul or spirit continues on. Was it my own spirit which was talking to me? That couldn't be. My spirit and soul were watching but not venturing into the tunnel which was following me. It was a different spirit which had come to my rescue at the time of my accident.

Although my experience was different, it tends to relate to a similar story as written by Plato in *Book X of Republic*. This is about a soldier who died in battle and then returned to tell of his travels to the nether world. I had refused to go into the tunnel to experience what may lie beyond.

One part is unexplained. In view of the degree of my injuries, why did I seem to heal so rapidly? Was that guiding spirit still with me in the healing process?

More recently another explanation has come my way through four people I have met in the past year. All of them are brilliant in science. Two of them are what may be called "walk-ins". These two explained to me, what a "walk-in" is. A spirit agrees to come in and take over a mortally wounded body, and the walk-out spirit must agree to this arrangement. It is a way of being reborn in which the incoming spirit does not have to go through the travails of living to the age at which the walk-in enters the new body.

One of my friends received his walk-in when he was 16 years old. He did not speak of any accident but he said there was a sudden turn in his personality at that time. He is now 70 years old and tells me that he knew he was not like other people. He felt out of place in any group of people, and does so, to this day. It was many years before he heard of walk-ins and knew immediately that his spirit was a walk-in. He has lost his childhood memories and had memories of having lived in a distant galaxy in outer space.

The second friend is much younger, being in his mid 40's today. At some different time

and place he voluntarily came to Earth knowing that the civilization he decided to enter would be backward and primitive. He feels somewhat out of place here. He has lived here to experience the earth-living in many countries and climes. He is a scientist of much accomplishment. In a previous lifetime he was brilliant. In his work he piloted a space ship from system to system gathering information. It was an advanced mentally evolved society to which he belonged then. Even now he gets input from metaphysical areas which are beyond anything which contemporary science has considered, or will even begin to consider. So he does not talk to many people about these strange thoughts. He is a walk-in with a spirit from an extra terrestrial space.

His concern today is with the greedy. Their lack of trust has them fearfully gathering more and more fears, causing more and more imbalance. This must be corrected and harmony restored. For him he must stay reserved not do himself too much harm while still using the freedom that is granted him.

From these two friends I have learned much about walk-ins. From the other two I know little except they are also of extra-terrestrial origin, I find many parallels between their stories and my own present condition.

That is a possibility in my case. In these cases, the newly occupied body, (mine), retained its memories. The back ground and objectives of the new walk-in is generally added on to current memories, but was not in my case.

These persons who now admit they have a "walk-in" spirit had noticed no appreciable change until others had told them about a "walk-in". The new spirit will generally continue the same agenda, and will try not disrupt the previous existence. It will be a more advanced spirit than the one it is replacing. The walk-in spirit will also have added memories and capabilities which the original body had not learned, but any such previous memories are passed on to me only very weakly. It is a possibility which I will have to examine as time goes on.

From this beginning, we can now examine how a child obtains a spirit or a soul in the first place. Many children will have "imaginary" friends, which their parents eventually cause them to drop and ignore. Are these "imaginary" friends and playmates? Or are they a carryover of associates from a previous life experience? There seems to be some validity for this. One extensive case will be discussed in the following chapter. This will describe some eleven hours of recordings of discussions with a four-year old boy.

These all tend to validate the idea of reincarnation. In the case of a child, the spirit will not enter the body until after the birth. India has stories of a child not obtaining a spirit of its own until several years after its birth. In one case the child was six years old and even pointed out a place where he lived only a few months previously. He knew the present occupants as his relatives.

When a child has learned to talk, parents should listen. They can judge many years later, whether there was a validity to what the child has to say about their invisible "playmates". When the parent forbids any such talk, it will create violent emotions in the child, which will last him or her the rest of their lifetime. We find that the memories exist, not in the brain of the child, but in the energy field surrounding that child as an aura. The aura appears not to be the spirit. These memories are of the past lives of the spirit of that child. To the child, they are truth, and contradiction of that truth will invariably create mental blocks later on.

By this time, many will be saying, "But what has this got to do with Quantum Arithmetic?" It really has everything to do with it. This is the domain where Quantum Arithmetic got its start. If it were not for that, and the many years spent in developing Quantum Arithmetic and then developing the proofs, we still would not believe there could be another way to use numbers to tie everything together, as well as the development of a useable calculation method.

In the past over 2000 years ago, the development of philosophy originates with mathe-

matics, and was well developed by the Greeks, the Arabs, and Egyptians. If the reader understands Quantum Arithmetic sufficiently, it is a logical conclusion that there are such things as atoms. The original atomic theory was developed in those ancient times, much along the same lines as we now presume atomic theory to be. Indeed, this fourth dimension 'in the Metaphysical Myriad is the heart and soul of Quantum Arithmetic.

This chapter, and the next, attack the one obstacle which stands in the way for the adoption of Quantum Arithmetic. The one reason that Quantum Arithmetic has not been adopted, is that it has run into a stone wall of taboos which have been places within our society. One of those taboos is that children are taught that it is improper for them to have invisible "playmates". It is possible that Quantum Arithmetic can be started as early as kindergarten, if the proper devices, toys and instruction are given to them.

By the time children have developed a knowledge of the basic arithmetic of addition and multiplication, they are ready to begin study in earnest. When they can get started on working out the Table which starts the ball rolling in the first text book, QA-1, they are ready to continue with the lessons. Even before that, if they can operate a pocket calculator, they can begin working on that table, in QA-1. This is precisely how it was introduced in one case, to three children in a family.

There was an amazing transition in a ten-year old boy, the youngest of the three, when saw that the numbers in the table were running in many different number series. He no longer had to calculate the numbers in each block. He could just go to the next number in the series which he saw and had selected. His eyes lighted up and he became very excited about finishing the table. That never happens when a child starts the rote learning of arithmetic.

It happened that his two older siblings had more advanced conventional mathematics training. They failed to appreciate Quantum Arithmetic at the time, but did so after three hours of instruction. The ten-year old had begun to grasp it, on his own, after only one

hour and really needed no more instruction to complete his copy of the table.

There is another side to this story. It will be covered in the next chapter. In this case it is a 4-year old boy who was too young to begin any mathematics, but he certainly had many residual memories of his past life. I allowed him to tell me about his "invisible playmates" and the times which he spent with them. What he had to tell me was very emotional with him. He was so tied up with these memories that his parents were having extreme difficulties with him.

Being able to talk freely with me, without any taboos, he was able to get into many subjects of his past lives that would never have surfaced otherwise. I made every effort not to guide and control the subject matter which he wished to cover. Over a period of short visits which would ordinarily be his visits with me very much as Dennis the Menace visits his neighbor. These visits were generally for a half hour up to an hour over a period of about two weeks. The conversations were tape recorded and culminated in over eleven hours of tape with a voice activated recorder. In these two weeks he had become very pliant with his parents, and much of his anger was gone.

He participated in any work I was doing, or he would play with my dog. A special part of every visit was the ritual of feeding the fish in my trout pond. After that we would do other things from picking apples or berries, working in the vegetable garden or any other work I had scheduled for myself. I gave him and his parents some copies of the tapes.

This boy has now grown and has become a responsible 15-year old who is very adult in his activity. I was called to move my residence to another city and had little contact with him for several years.

One "Playmate" in particular was his daughter. The mother of his daughter had been a war captive, and had died in captivity after giving birth. This daughter was the life and joy of Billy. He would do anything for her. He had told me that, "When I became a King .." this daughter was "very happy and had a castle

all for her very own." He was very ecstatic whenever he discussed her on the tapes. (it was on the subject of his daughter that all of these conversations started.)

When I finally visited him after several years, I asked about his past "playmates" by the names he had used. I asked him how was everything with your daughter Bayalla. I was amazed, when I was met by a blank stare. He did not know what I was talking about. It was as though he had never heard the name. I pursued the subject by asking about some of the other "playmates". He still had no recognition of those people about whom he had previously been so emotional and ecstatic. So I changed the conversation to the present. Those "playmates" had been erased from his conscious memory by the very society which could have eventually been able to recover some of the technology, which I presume is still within his subconscious memory.

He is turning out very successful in a business sort of way. But is he fulfilling his destiny for which he came to Earth this time? I don't know and possibly no one will ever know.

The whole point of this next chapter is to demonstrate the strength which those memories of past lives can have. Those memories should be explored, not just dismissed and destroyed. It would be much better if those memories are placed in the proper perspective. They are now in his subconscious and may arise at any time, subconsciously, to create another memory block to learning, which is available in this lifetime.

"These memory blocks are afflicting many people to the extent that they are unable to understand and absorb the simplicity and ease, by which any person may learn all of the mathematics they will ever need in Quantum Arithmetic. LISTEN TO THE CHILDREN

Chapter 9

BILLY'S STORY

This is the story of a four year old boy who had a lot of unexplained things on his mind. I lived on a seven-acre mini-farm which consisted of about three acres of orchard and growing area, and four acres of forested area in which I had made walking trails. There were many springs and water seeps so the grounds were often quite wet. Some of the wet places of the trail on the property were surfaced with corduroy. Other places where the water was gathered into streams, a wooden footbridge was constructed. At the far side of the forested area I had built two fish ponds. They were stocked with small trout in one pond. The other pond had full grown three to five pound salmon.

There had been a few days of heavy rains. Everything in the woodlands was soaked and wet and there was much mud on parts of the trail. I had my rubber boots on my feet but Billy only had canvas tennis shoes.

Every morning, and every evening I would walk the trail to feed these fish in the trout pond. These were fish for the table. Billy, his parents and his grandfather always enjoyed visiting here.

Billy lived with his father and mother nearby. He would sometimes come over to accompany me on these feeding excursions. We would talk on these walks. Rather early on, I had told him of a book I had been reading about John Tyndall, the sound researcher of the 1870's who had discovered that there are certain, (unexplained) times when high pitched sounds travelled much further than low pitched sounds. I told him that, I too, had noticed there were times when the jet planes flying overhead would be heard as the high pitched whine of the turbines. Sometimes, unexpected things happened. But most of the time it was only the roar of the jets which

would be heard.

One day when walking to feed the fish, Billy noticed the high pitched whine of a plane passing overhead. He remarked, "This will be a fall-down day." He was essentially saying that the high pitched whine portends a time of accidents or misfortune.

It was many years before I fully understood how he had made the connection.

I was soon to learn that Billy had memories which seemed to date 2000 to 8000, or more, years ago, and we will soon get into that. It eventually occurred to me that leaders in those early times depended a great deal on their oracle advisors.

The oracle's attention to conditions may have included listening to the pitch of the predominant sounds. Then the oracle may have forecast some of his or her prognostications on the basis of whether the sounds were predominantly high or low pitched, or mixed. The ancients appear to have known about this interconnection within nature. I had learned that vibrations, in the range of one vibration per second, to about twelve vibrations per second, are the frequency range of some of our brain waves. This range will affect a person's emotions in a dramatic way.

But to continue Billy's story, he was beginning to become rather unruly at home because of things in his mind. He apparently could not talk freely to his parents but he found he could relax and talk to me on our walks in the wooded trails. He told me many stories of his past lives which lived in his memory.

Most of these past lives were somewhat mixed together and difficult to separate. Others because of their general context and condi-

tions could be sorted out. His first story was one of these, although it may contain short sketches of other lives.

The first story caught me entirely by surprise. On this morning's walk, Billy was becoming unruly and aggressive. We had come to a short section of the trail which was very muddy but I wore heavy waterproof boots. He wore tennis shoes, and besides that he was having one of his unruly and obstinate spells.

I picked 4-year old Billy up in my arms, and carried him over this wet and slippery section. As I picked him up he seemed to suddenly relax in my arms. It took only ten or twenty seconds to cross the muddy patch on the trail. As I put him down, it took him a moment to regain his composure when I put him on his feet. He had suddenly become quiet and pensive and to have lost his bearings. I asked him what was the matter. He said, "I saw Bayalla" and two ladies.

I asked, "Who is Bayalla?"

Billy answered, very positively, "She is my daughter."

I asked, "How old is Bayalla"

Billy responded, "She is 16 and there were two other women."

My next question was, "Where was this?" To which Billy answered, "Italy".

It happened that Italy was the only far away place that Billy knew of. His parents had lived in Bologna, Italy for a year when Billy was one year old. But Billy did not leave it at that. He continued, "And there were lots of robbers in Italy and they had pistols. They would rob people and would shoot them."

Other than the sojourn to Italy, Billy had lived a very sequestered life. He watched no television and had no neighborhood playmates, nor did he spend any time in daycare. His father was an artist and his mother was an architect, and both work at home. His mother had told me that Billy was becoming difficult to manage because he was angry so often.

No one was robbing them and I was in a quandary as to the origin of that statement. This is where Billy's story really started. I got a tape recorder. Billy rather dictated his story on following days. But I didn't have it this day.

With that Billy started the story. He told of riding in carriages and the dangers they encountered. Billy started out, " And there were bad people that had pistols, and swords. They would rob people and they would shoot them."

I: " Did they rob you or shoot you?"

Billy- "No-o-o-o ! We were riding in a carriage!" His statements were very emphatic. One would feel he was actually reliving them.

I.- "Did they ever stop your carriage?"

Billy: "We wouldn't let them."

I: "How did you stop them?"

Billy: "We would pull down the curtains and my father and mother would gallop the horses." He talked of many things, both of today and from his memories. The conversation ended with Billy saying, "And one day the soldiers came and got me and took me away."

With that the interview ended. We had returned from feeding the fish and had returned to the house. Billy went on to his own home, and he seemed much relieved and relaxed that he was able to tell someone of the things on his mind.

Several days later Billy came over again to help me feed the fish. This time I was armed with a portable voice activated tape recorder. After leaving the area of the house but before entering the forested trails we stopped and sat on the grass.

I asked Billy, "What did the soldiers do when they took you away?"

Billy: "They took me to the castle. Then the soldiers took me to the field behind the castle. They had cannons there."

I had visions of Billy being arrested and about to be disciplined in some way. So I asked as simply as I could, "And what did you do then?"

He said, "And they let me fire the cannons."

I: "What were the cannons shooting at?"

Billy: "They were shooting targets."

I: How many targets were there?"

Billy: "There were three targets and three cannons."

I: "How big were the cannon balls?"

Billy: "They were this big," indicating with his hands about a foot in with his diameter. Then he retracted, "No they were this big", indicting again with hands that the cannon balls were about two inches in diameter. He always had trouble with answers when the answer involved a number or a size.

It came out that the cannons had two wheels probably two or three feet in diameter and could be pulled by horses or men.

I: "So the soldiers were only showing you how to shoot a cannon?"

Billy: "Yes! And later on when I got bigger I became a soldier, too."

We continued on to our objective of feeding the fish. On the way he stopped suddenly. He said, "Oh-o! This is another 'fall-down' day. It was then that I realized a plane had just passed overhead emitting the whining sound of the jet turbines, instead of the usual roar.

The fish were fed and we had returned to the clearing. It was a beautiful sunny day and we sat again on the grass, with my dog nearby.

Billy returned to the subject on his own without any questions from me. It was here where the conflict between memories were becoming mixed with the day by day incidents of today. He spoke of his involvement with castles. Apparently he was talking about his

early training as a soldier. I was a little wary in trying to establish a time or a sequence.

Billy continued the conversation:, "I was in the school in the castle. We were writing on a board with pictures of things for the King. You know about him. Don't you?"

I: "I think all kings are great. Which king was it?"

Billy: After a bit of hesitation trying to remember a name, "it was king Arthur?" This was the first name of a king which came to his mind partly because Billy was an avid follower of Prince Valiant in the comics. This will partly reflect his attempts to match his current learning with past events, and the confusion which resulted, for him. This made me even more wary and to avoid any leading questions.

Then came a diversion. Billy said, "What are you eating Sera?" Sera was my faithful dog which was always with me. She and Billy were great friends.

I: "She is cracking a plum pit. She knows how to crack nuts and to eat them. What does the King -- What does the Lord...?"

Billy did not give me a chance to finish the question. "We took our pictures and writing to show to the Lord."

I asked, "Were there other people when you went to show the Lord your work?"

Billy, "There was a general, and there was my regent, and there was a girl person who gave us our food, and some other people, and we showed all of them our work. on the writing board. Then the King wanted me to sit on his throne"

Apparently he was talking about his early training to be a soldier.

I: "Was there also a Court Jester?"

Billy: "Yes."

I: " What did he do?"

Billy: "He ruled the Court, and in the King's room. I had to climb a ladder to get to the Kings's room."

I: "Where did the ladder go?"

Billy: "I mean the room was above the Castle. It was on the roof."

I: "Did the ladder go through a window or a hole in the roof?"

Billy: "Uh-huh. And we had to go through a window in the King's room. We had to go up the ladder through a hole in the roof and then through a window. The window was in the kings room, and a ladder came down from a hole in the roof. We had to climb up the ladder. We would go in the room and tell the king and the queen about my royal possessions and my men, and hunters--."

I: "You had hunters? How did they hunt?"

My question stumped Billy for a while. Apparently there was a flash-back to a different time and a different place.

Billy: "Uh huh! I had hunters and men with peace pipes. The hunters had long spears with clam shells."

I: "Clam shells?"

Billy: "Yah! Those and BARBONS. They would tie them on with clam shells and hooks, (barbs). And they had bows. They would point them at the animals and shoot and kill them. And then they had snow shoes. I told you about them before*." He drew pictures of four different types of "barbon". (*In a previous story he told of a winter of very deep snow over 10 feet deep.)

I: "The barbans? They were made out of clam shells? Were they sharp, and you tied them on a --- ? "

Billy completed my question, "--Stick. Then when we saw a deer we would run the, barbon-- (he demonstrated the spearing of an animal, acting it out), into the deer or the big fish." (I will have to interrupt here to break

away to an experience in the late winter of 1990.)

I had arrived by train in Denver, on my way to a Mini-Science Symposium to be held the following day in Colorado Springs with Dale Pond. I was stranded in the Greyhound Bus depot for four hours until midnight when the bus was scheduled to depart. In this wait, I struck up a conversation with an elderly be-whiskered WW II veteran from Durango who was also waiting. He had come to Denver to see the doctor at the Veterans Administration Hospital, and was headed back home on the same bus.

Somehow, the conversation drifted into past lives which some people remember. I asked him if he had any experience with "barbons". This was without mentioning Billy or any other reference. He said that he did and he described them and drew pictures exactly like the ones which Billy was describing. He was in his late 70's or early 80's, and a veteran of WW II, but he did not appear to think my question was odd or unexpected. I do not know why I asked the question. I was more surprised at his answer than he was about my question. I had run into something which was quite unexpected, this being some three years after Billy first told me about them. This elderly man had corroborated Billy's story. (And now we will return to Billy.)

I: "You would run the spear into the deer, and with the barbans the spear wouldn't come out, huh?"

Billy: "And how we got the fish,-- We would get them in a big net that was tied with grass and vines. Then when we got the fish, we would kill them with other kinds of barbans."

I: " Were these big fish or just little fish?"

Billy: " They were this big." (demonstrating with his hands.)

I: "Oh, like salmon, were they? They were bigger than my fish, huh?"

Billy: "Uh huh! And they were this fat?"

(again demonstrating), "Or it could be a wolf eel."

I: " They weren't whales, were they?"

Billy: "No-o-o! We would catch whales though. We used canoes made out of grass and bark. We would use shells to make holes in the bark. We would spear them with barbons tied to the canoe. The whales would be our tow."

Billy: "We did hunting, Our castles did farming and we had little lodges and animals and wells.

I: "Were there other castles too?"

Billy: "Uh huh. But those castles were bad. There were only four more castles that were nice to us. All the other castles were bad. And we wrote with feathers dipped in ink."

I: "What bird did the feathers come from, a goose or -

Billy: "They were from a blue jay. And we had a special block of wood to write on."

I: "What kind of clothes did you wear?"

Billy: "Cloth with grass, and grass tied across them, and shoes made out of bark and covered over with grass and reeds and fastened together with sticks, the toes going up."

I: "Something like boats, huh?"

Billy: "And we would write on pieces of wood?"

I: "Why didn't you write on paper?"

Billy: "We wrote on wood because we didn't know how to make paper."

I: "Was Bayalla there?" I thought I could return the conversation back to Italy. But, it seemed only to confuse the situation.

Billy: "Yes, Bayalla liked being there, and I always had toys along so she could play with them."

I: "Was that the time you were in Italy, or was it another time?"

Billy: "It was in Italy but I was a Lord this time."

I: "How come you were a Lord, instead of a soldier?"

Billy: "I was a Lord because I was tired being a soldier. After I was a Lord, I became a hunting man. I lived in a little cottage about this big." (He drew out the size on the ground. "The cottage was built of whatever was available in the forest. He sticks and logs and rocks, and grass and reeds. He goes on to talk of the great forest and the rivers and the mountains, and avalanches in the mountains, There were caves in the mountains.)

I: "Did you go in the caves? Did people live in them too?"

Billy: We would kill bears and wolves in the caves. Sometimes people would live in them. There would be two or three or five or six.

I: "What did the people in the caves eat."

Billy: "They would eat meat, bears and cats and berries and their fruit was Navigans. That's something you put in meat."

I: "What kinds of berries were there?"

Billy: "Any kind, but not poison. We knew what kind. Some of us were berry tasters. -- 3000 berry tasters. They tasted all the berries.

I: "When they tasted them, did any of them get sick?"

Billy: (very gravely) "Some of them died --. But the berry tasters knew what kind of berries he ate. Then we wouldn't eat that kind."

I: " How did you fix the meat?"

Billy: "We soaked it a long time in water, and then we dried it. And then they would cook it in pies with berries on top and there were nettles inside."

I: "How would you grind tip the meat?"

Billy: "We would beat it a long time with a stick of wood."

I: "Did you use wood or rocks?"

Billy: "We used wood, and then we would clean it because it would have stuff on it and would get bugs and germs on it. We would grind the meat with the wood and then we would dry it. That is what we called 'pennicun' (Pemmican), You know what that is, don't you?"

I: "So that is how you would make pemmican."

Billy: "And we had another kind that had fruit and nuts and apples in it. "And we had That is what we called 'fruit pennicun'."

I: Was this in Italy? I thought just the Indians made pemmican."

Billy: "No! That was in Italy, and another country had apples and plums, cooked with a lot of berries. And that is what they called fruit pennicun' 'cause it had a lot of fruit in it."

I: "Did you live in another place, sometime?"

Billy: "No! Not while I live here."

I: "I mean you told me you were a soldier and then a general when Bayalls was a child and then a king. What were you before you lived as a soldier?"

Billy: "We lived in a place where we had flowers, and gardens, and birds and animals. They were inside the houses and we had parties and people there. And we had potlatches there."

I: "Your mother said for you to be back in a half hour and your half hour is done. I guess it is time for you to go home. I'll see you later." (Aug. 30,1988)

I could see how Billy was wrapped up in at least four different lifetimes, not realizing they

were different lives. His memories contained nothing about death. He was first a soldier, then a Lord, then he was a hunter. He had not separated them into different lifetimes. I had not told him of my past life memories, but this last was certainly Atlantis. It seems that Billy and I had lived in the same country at the same time in some of his recountings of his past lives.

I had lived in Atlantis in 11,000 B.C. about 1000 years before the sinking. Plato claimed that it sank about 10,000 B.C. The story Billy tells of Atlantis is very much like the description which was given in the book, "*Dweller on Two Planets*".

I have present memories of having lived on Atlantis, as a scientist, in roughly that same time frame but about 1000 miles west from the Capitol. I had not told Billy about my memories nor did I tell him at this time.

He confirmed a week or so later, that he knew me in another lifetime, perhaps 1000 years after the sinking. Billy previously mentioned the "very deep snow". I had asked Billy about this. Billy told of living in a cave at the head of a valley only a mile or so from the seashore. He told of a plane flying overhead and dropping a bottle on a parachute. Inside the bottle was a piece of paper, but no one in the small tribe could read it, even though they had ancient books hidden in the cave which had the same writing in them. I remembered the books and I couldn't read them either at the time but I knew nothing about the bottle with the message.

I believe these were the books which Nostradamus; found in southwest France, and later burned. He said they contained information "from the ancients. They burned with an explosive flame", he wrote in his books. He also explained that he burned them because he did not think future generations should have them. I believe these were the real source of his prognostications.

I had met Nostradamus in one of my past lives when I was Court Jester for King Henry II. I was born as the illegitimate son of Henry and a chamber maid. Nostradamus came to be interviewed by King Henry but he had to wait nearly two weeks. I talked extensively to Nos-

tradamus during this time. When King Henry died, his legitimate sons took the throne, I being much older, became consort to Queen Katherine, and was the de facto ruler.

Billy went on to describe the snow in which the tribe was beginning to die of starvation. At this point I told Billy that I had memories also of living in a cave. We were starving so I took nine men to go to the ocean for fish.

Billy seemed much older when he interrupted me.

Billy: "When you didn't come back we found you frozen. Then I took some men and we dug a tunnel under the snow all the way to the beach."

This caught me very much by surprise. I had apparently jogged another of Billy's memories. Within my own memories, I had placed this memory at some period of time after the sinking of Atlantis. My memories were derived through self regression in the mid '70's. Billy had made the connection to having known me as leader of that small tribe.

This was about the third interview and Billy was getting things out of his memory. He was becoming more at ease with himself and relaxed both here and in his home. He had not correlated his memories with today's happenings but was more at ease with them. It is quite clear that he was dealing with much more than the one lifetime which he considered it to be.

Two years had passed and I hadn't seen Billy, in that time. I asked him "How are things with Bayalla?" His answer was a blank stare. He had absolutely no recollection of Bayalla or what I was talking about. Billy had his brains washed out as far as those memories were concerned. Only two years before, he had had such an emotional attachment to Bayalla, that I could not imagine it not surfacing now three years later. There was not a vestige of recognition of the name "Bayalla".

This chapter gets a long way from the main subject of Quantum Arithmetic. Billy's story was so real to him that it gives us an idea of how the brain, the spirit, and memories work.

I believe that as Billy grows to adulthood, and then ages a bit, he will begin to remember some of these stories. His subconscious will have put them in a more reasonable perspective for him, as his worldly knowledge grows. I believe they will reside in his subconscious and only be remembered when Billy decides to recall them.

Between lifetimes, these memories must have resided somewhere as an organized field of energy in the aether, possibly attached to his spirit in another dimension. Has it been the same with me in the deriving of Quantum Arithmetic? Have there been vague vestiges of knowledge of this ancient mathematics, tied up in my subconscious, which Archimedes was awakening within me? It seems as though that may have been the case.

What is memory? From the aspect of "energy" information is an organized energy field. Each byte on a computer is an energy field in itself. This energy field is one byte of information and it is tied into other energy fields to make an enlarged field. Then these larger energy fields are tied together to make up memory. The whole field begins to have a context, but it was disorganized in Billy's case.

There have been many unexplainable incidents, that have happened to direct me to the proper areas. I have many intuitional insights that also lead me to the correct end. I have been given many experiences, some of which I did not really enjoy, but they were necessary in order to recover Quantum Arithmetic to the state I have given it. It will be necessary to continue for yet one more Volume, on Quantum Arithmetic after this one is finished. At that time, this work will be handed over to others to venture into the Third Dimension of Quantum Arithmetic,

The interviews with Billy carried on for more than three weeks and, more than ten hours of recordings. They are quite enough to make a book in themselves. His soldier days, within the memories of several lives, is very extensive with methods of war which was more like guerilla warfare. He would rattle off the various weapons as though he were a general reporting to his Commander in Chief. He

had memories of several lives and was trying to put them together as one lifetime. but his life as a soldier, a General and then a King is rather continuous, and very detailed. There Is quite a bit more about Bayalla to whom Billy was very emotionally attached. Her mother, (a war captive), died shortly after Bayalla was born. So, Billy had to care for her or have other military officers care for her when she could not accompany him.

I often wonder how his life would have gone, had he not been able to unload his memory problems ten years ago. Billy has completely cut his communication with that ancient memory field, but the memory energy field surely still exists somewhere and Billy may be destined to contact it again, later in this lifetime.

This incursion into the Metaphysical Myriad has led to a slightly better understanding of it, but there is still a long way to go. This Chapter and the few preceding ones give us a little insight. One more chapter to wrap up the spiritual part will bring a little more cohesion.

Chapter 10

THE HUMAN SPIRIT

The truth must be known and the Truth will make you free. Our brains have been filled with many untruths which have been accepted for so many ages that they have become accepted as the final truth, but are not. The first thing about which we must learn the truth, comes in the term "Know thyself!" What is a human being?

Many have come to accept that our capabilities are so restricted that there is not much hope. Others have claimed that humans are the most intelligent beings in the Universe. Neither is true. The truth lies somewhere between, but is closer to the latter, in capability. The human being is a microcosm of the universe. Each human being is capable of anything which can be imagined. But each person must know themselves first.

The human being is much more than just a body. The body is only the temple in which the major part of the human entity, resides for a time. We need, to drastically change our thinking about the space time dimension. These apply only to the material world in which the human body resides. It seems the brain is only a reader which reads the surrounding energy field called the aura. The information seems to be stored here. Contact with this energy (information) field is through the spirit, the soul and the brain. A major problem against any change, comes from our interpretation of spirit and soul. The interpretation of today was given to us by organized religion.

One of the Biblical books which has been withheld by organized religion, is the Book of Immanuel, or the Talmud of Immanuel. There are said to be only six of these books in existence today, and they are being held in deepest secrecy. They are important to religious thought because they concern the personal

part of the life of Jesus Christ, and contain some of his own personal remarks about Himself, His birth, and His travels to other countries. But one must start with the beginning of the general organization of our creation under the laws of Creation.

There is a drastic change in the idea of creation as given to us by Genesis. The very top level of creation is Creation itself. Creation consists of a series of laws which apply for all places and all time.

These laws are unalterable and unchangeable, even by God. If there is God above these laws, that God is unreachable and more probably unconcerned about human existences. Creation is based upon a system of perfect mathematical laws. These laws, then produce Creation and man after seeing this, creates the God to which we pray. We pray to God, but it is Creation which hears and grants our prayers.

We can probably say that Creation is God, "The Creator", and below God is the spark or spirit of the Christ Spirit. This Christ Spirit governs all religions, -- not just the Christian religion. The Talmud of Immanuel tells us, that Jesus taught that he was an ordinary man with a soul which was old enough to bring the message of Creation, at that time. He was the Christ Spirit. Jesus was the origin of the spark of the Christ Spirit which every soul has. Confucius and Buddha had the same Christ Spirit earlier. Mohammed, 600 years later, and Joseph Smith carried the same message to the Mormons 1200 years later still. They all had a body in which the Christ Spirit resided, and they taught the same message, but humanity chose not to understand, and not to believe.

From this Christ Spirit is given a small spark, or seed, if you will. This spark becomes

what we call a human spirit which is given to a child at the time of birth, for his or her spirit. When the child is born it still is not a human being because it has no soul.

The soul is what makes the difference between a human and other living things. In the statement, "Know Thyself" one must know their soul which has been termed by various names. One of those names is the "unconscious" of a person. The "conscious" is that part of the unconscious which applies only to the material world.

There are several other stages of the unconscious. The part of the unconscious which retains the history of an individual soul is called the memory, and the memory of that soul lives on even after the body dies. When a spirit returns to Earth in a new body, the unconscious also returns to that body at some time after birth. It appears that the soul is not joined to the body until the child is older, but generally the soul joins the body shortly after birth. With the joining of the soul, to the spirit and the body, the memories of the previous earthly life will return to that child.

The outdated memories will be builded upon, and revised, to meet conditions. After many lifetimes each soul can gain enormous knowledge, and part of that knowledge is "Know Thyself". This brings us to the very reason for our being. Our being (on Earth particularly), is to gain knowledge.

By gaining knowledge in all areas, one begins to Know themselves better. What better place to start than in studying Creation through studying mathematics? The problem with that is that the mathematics we commonly use today is not the mathematics of Creation. Science has touched upon the mathematics of Creation in such basic things as the Periodic Table of Elements, but they still do not have the mathematics.

There is also the mathematics of music which depends upon the ancient knowledge, but neither do musicians have the mathematics of Creation. The mathematics of Creation, and Music-Of-The-Spheres were once known more than 3000 years ago. Part of it was used

by the Greek Mathematicians and Philosophers, but it died out shortly thereafter. There were ancient civilizations more than 10,000 years ago, and up to 70,000 years ago, which used the full extent of the Mathematics of Creation. We are beginning to recover that knowledge, today.

Creation, with which we are concerned can be studied by learning the precise laws which apply, by using the prime numbers as a base. But the purpose of this chapter is not to explain the mathematics. it is to explain the body, spirit and soul, in terms which have been kept secret these several millennia. The oldest souls of today have the knowledge of this mathematics buried in their ancient memories, but it has been overshadowed by current inept teachings of mathematics. There is no substitute for truth. The oldest souls remember this ancient mathematics.

When these oldest souls are taught the mathematics which is being taught in the schools today, they are confronted with an untruth which is being taught to them as the ultimate truth. The untruth was recognized, in their unconscious soul, but this memory was never given a chance to reach their conscious soul. Only a mysterious mental block is seen as, "I hate math." This was somewhat the dilemma which confronted Billy in relation to what he remembered and what he was finding in this life..

This is given as a basic example of the problems which confront us in giving our soul a chance to express its unconscious memories. But therein lies an answer. The spirit and soul is a microcosm of the universe. This soul does not need to be educated, because it already has all knowledge. It has all of the knowledge of the past, but being free of the space/time dimension, it also has much knowledge of the future. We do not recognize this because almost no one is in touch with their unconscious, or with their soul.

Parents and society are so prone to erase those prior memories because they are in the context of a time perhaps two hundred or more years earlier. Surely, some of the memories are outdated, but the child will reorganize,

and save those memories which are in context with his or her present experiences and learning.

There are two ways to get in touch with our soul, and our unconscious. One way is through meditation, but it is a very unsure way because many trust the revelations we receive through meditation.

The other way is the natural way which has been set up through the laws of Creation. It is a slow and tedious way but its results are sure, if one follows the other laws of Creation. One particular set of laws are the laws of love, charity and gratitude. This way is the gaining of knowledge and truth at each sojourn on Earth.

In their progress toward perfection, many have run afoul of these laws. In doing so they have tended to destroy their soul through practice of greed, hate, and intolerance. When these practices harm their fellow beings, such a soul is in danger of degrading their spirit and soul. When that happens they do not go to hell after death, they simply disappear into nothingness. They will have no further chance to progress to perfection, except at the sincere prayer of another who asks, out of love and compassion, that their soul be reinstated.

Organized religion teaches of Hell and uses this fear to control and enslave their membership. On the other hand they teach the worship of Jesus, but Jesus, himself, states in the Talmud of Immanuel, that one who worships him as a God, has already failed. They may worship only the Christ Spirit.

Perfection is achieved on Earth, when a spirit and soul has no need to return to a new body. An entity can progress only in body form in combination with spirit and soul. Spiritual progress does not occur in the same way when in the upper dimensions. (There are indications that there are some spirits and souls from other planetary systems who incarnate here. Some of them incarnate as "walk-ins", occurring later, in a mature body which has met accidental death. They provide a spirit and soul to that body and bring it back to live and to health.)

Some spirits may choose to reincarnate in a new body to assist in the progress toward perfection for humanity. Many may choose to reincarnate sporadically, from the spirit form to assist others, and to assist humanity.

If any one has fair contact with their own spirit and soul, as "know Thyself", they begin to have the ability to contact returned spirits, which then are known as "Spirit Guides". Another name for them is "White Brotherhood" which works as a group to assist mankind. The "Shasta People", sometimes called "Lemurians", appear to be of this advanced type of group.

The main purpose for being on Earth is to gain knowledge and truth in all areas. The negative part of this is to eliminate the untruth which has been previously learned. Sometimes that is a difficult task in a single lifetime. For instance, when one learns music through the chromatic scale, they must be able to unlearn this, and recognize that Creation has its own musical scale. It was called "Music Of The Spheres". Most find it difficult to revise, and revive this memory within music, in favor of the truth. They will not find it any easier in other areas. The mind must be kept flexible to accept truthful knowledge when it is encountered.

When a spirit and soul does not progressed beyond the need to occupy an Earthly body, there is progress to be made in a later lifetime through reincarnation.

That brings these last four chapters full circle in discussing the spiritual aspects of Science, Nature, and the search for greater knowledge. This spiritual side is one thing which is sorely missing from present day science. It is a part which must accompany science as an integral part of the search for knowledge. That is not to say that religion is necessary because the subject of spirituality is not religion per se. Religion is a personal thing or belief system, and pertains only to the specific person. The Spirit World discussed here, is truly a part of Science and is a part of the Energy Spectrum within the Myriad of Metaphysics. Each bit has its own energy field, which may be a part of a still larger energy

field. Through many lifetimes we may pick and choose, but it is the truth which gets saved. It may be out of context, as was Billy's, but it is the truth

So, that explains why these last four chapters are included in a book which is a discussion of mathematics.

Chapter 11

PITFALLS OF INVENTION

This chapter is not so much about Quantum Arithmetic as it is about the management of a project in New Science. It is not about, science but the economics and social aspect of a research project.

There is a parameter of Advanced Science which is hidden behind a cloud. This cloud is reinforced by the distraction of earnest research. The researcher is so involved with the science side that they will tend to forget the ultimate objective. The main objective is getting devices on the market and into use in society. The main handicap in reaching this objective is funding. Outside funding usually creates obligations to the financial world.

If and when financing is extended, the person furnishing the funding will be making an investment. They may seem to have the interest in the research, but the money is really an investment and is more important to them, when it becomes apparent that the researcher is getting into difficulty. Or perhaps the researcher is successful but is not ready to market a sub standard product. In either case, the person furnishing the funding may become overly anxious and start to dictate to the researcher in matters of which neither is informed.

THE VTA-

A case in point is that of the VTA project by Floyd "Sparky" Sweet. He had developed the VTA, (about the size of a breadbox) to the point that he could draw energy from it. It was not the size of the machine but one property of the energy he was producing, which caused his problem. It was cold energy or as some called it, "Zero-Point- Energy". It was the same as that, which these books call, "Night-side Energy". The property was that the machine would furnish as much energy as Sparky

desired to draw from it.

That was the beginning of his downfall. He told me that he could draw five kilowatts from it. But if he went to anything above that, the machine would begin to levitate, in producing this extra power above 5 kilowatts. In addition to that it created a massive energy field which formed a howling vortex. It was apparently an aetheric vortex. It began to shake the ground and the surrounding countryside. This is what Sparky told me over the phone. He had to disable the VTA to gain control of it.

Be that, as it may, Sparky went ahead and obtained a patent on the VTA. Now having the patent pending, he sold manufacturing rights to one of the major auto makers. He never disclosed, to me, the sum but it allowed Sparky to build for himself, a first class research laboratory, (Which he told me cost \$40,000).

This money, apparently was furnished by his financial source, on the strength of the license he had sold to the auto maker. One year later Sparky had still received no money from the Licensee auto maker, Sparky told me.

Sparky never told me the amount to be paid him for the license, but he told me other things of events which had occurred earlier. -- His financial source was pressuring Sparky to sell to them the complete rights to the VTA, or to agree to stop any further development of it. I do not know who his financial support was, but it was implied that it was some corporation in the energy business. He said that, at later date, three men dressed entirely in black had come to his door and delivered a physical threat to Sparky. He could not identify them, but they were very frightening.

Sparky was employing the scalars and vectors of quaternions in developing the VTA. I

told him that I had found a still better way of finding the so-called "quaternions" which he needed, and that I described it in my books on Quantum Arithmetic. He became interested and asked me to send him copies. I tried to lead him through it without getting too involved in the first two Volumes of Pythagoras And The Quantum World. , I concentrated on the ellipse and the method of finding the proper quaternions which he needed, by using certain of his empirical data. He was interested.

Sparky had my books by the end of May 1995, and said he was reading them. I know he wasn't making much headway by starting in the middle without understanding the basis of Quantum Arithmetic. At this time he would refer me to his "helper", who was not really studying either. I phoned him again about the middle of June 1995. Again he referred me to his helper, but now called him, "My assistant". The assistant still was making no headway with Quantum Arithmetic. My next call was at the end of June 1995, but Sparky was calling this "helper" as "My Supervisor" as he transferred my phone call to him. The conversation was unproductive, of any help I had to offer Sparky.

My last call to Sparky was on July 5th, 1995. I had a feeling that Sparky wanted me to call that morning, but I had nothing special to tell Sparky. I waited until afternoon to make the call. Violet, his wife, answered my call and said that "Sparky had had a massive heart attack " that morning, and his it supervisor" was taking care of getting him to the hospital, but Spark was gone before they reached the hospital.

And since I started into this discussion about difficulty with providers of financial assistant, I was told that several moving trucks came in the very next day and hauled away all of Sparky's records, data, and equipment, including the two books I had sent him. That brings this to a close. So, what is the answer to this predicament?

The answer to this predicament is quite simple. The answer is to work small and DON'T GET GREEDY. I see in an advertizement, in today's mail that a health product, which can

be manufactured for less than \$2 per gallon is being sold for as much as \$60 per half pint. The rest of the cost is in packaging and marketing, but it does not run the cost up to \$60 per half pint, which amounts to \$960 per gallon for a product which costs less than \$2 to produce.

I see a company marketing a one pint generator for Brown's Gas for \$8000 per unit because it will be worth that amount to the purchaser. Another developer already has a 20 gallon generator for Brown's Gas which he obtained for little or nothing more than the work to get it operating. But there is another part to that story.

The second party is making full utilization of the information contained in the four previous chapters. He is including the Spiritual side within all of his research. He is slowly approaching success, but it has not grown to the extent that he has anything like unlimited funds. He is avoiding GREED on his part, and on the part of all of his associates in the research. This researcher will win.

I want to back up to the beginning of this topic, or thread to the point where Sparky overloaded his VTA and was headed for absolute power with his great excess of energy. He had become trapped in a pitfall for which there was a way out.

In 1948, Professor John R. R. Searl had come to this same point while he was still a teenager. He had made his first disc in his kitchen. It levitated and went through the ceiling and the roof. Later Professor Searl put in additional stages, (probably in a different Myriads of energy), and harnessed this excess energy. Still later he developed a third stage., and he had his DEMO 1.

Surely Professor Searl and Sparky Sweet were approaching the problem from different aspects and each had developed the first stage generator in their own way. Now, if Sparky and John could have gotten together, they could have made a multiple attack on the various problems, both technical and financial which have stopped both projects. They would both have climbed out of this pitfall and the

whole New Energy will have passed a new milestone. Now, let us go on to the next pitfall.

The road to success is in manufacturing a product which can be obtained with the funding available. That can be a toy, or it could be a minor adaptation such as creating a generator which will keep an automobile battery at full charge, thus eliminating the necessity for a separate generator as is found on all automobiles. In addition it will be possible to draw small amounts of electricity from the battery which is not associated in any way with the car, such as operating a chain saw, maybe an auxilliary garage light.

The secret is to sell at a reasonable profit margin, as was done by Henry Ford when he constructed his first cheap cars. When any device is put into mass production, at a reasonable price, it will sell itself by word-of-mouth, not by extravagant claims for an extravagant price.

That is exactly how the price of these books is determined. They could have been put out in extra glossy form and probably sell a few at \$150 each. The knowledge is worth every bit of that higher price, but must be no GREED. That is the road which will lead to success, without begging from a funding source.

FINANCING AND MARKETING

This next pitfall is to avoid the hoop-a-la. Customers become suspicious Of new things when they know it has never been done before.

A second aspect concerns the changing of social life with the advent of an entirely new type of device. A large segment of society does not readily accept major changes. They do not accept major changes, but will accept minor ones. By accepting small changes, they will eventually experience the gradual advance to the larger change, without the disruption which would surely occur with making the change in one jump.

Among the Parameters of Energy, and Change, is the elimination of greed and ego.

Do not expect help from others outside your circle. Neither should one accept offered help without investigation of the motives behind that offer. This will help one make progress. One of the first rules to follow is do not make too big of a splash and attract undesirables into the venture. When greed enters the picture, all else is lost and judgements are impaired. The undesirables will try to take over and rule out good judgements, or they will try to destroy any competitive ideas.

The second rule is, "Do not expect any help from the Government or from the Establishment." They do not want anyone to rock their leaky boat, and will do anything to stop one from changing the *status quo*, rather than to provide help or funding. It will be necessary to keep your operations within your own group, able to thwart that advance by them.

That does not mean that we must operate in secrecy to avoid these agents. Often they are very low level agents, who can be won over to our goals. They are out to make a buck or gain a great adventure in a spy thriller. If they can be enticed to support our side, the danger is minimized. There have been many researchers who have died under suspicious circumstances, and their inventions taken or destroyed. Many lesser known developers have simply disappeared after their discovery had been widely publicized. They are, invariably classed as suicides, or "natural causes", when it obviously is not so. If any researcher is approached by agents to sell out, or receives a vague threat, that fact should be reported to all others in and out of our groups. We should implement teamwork. It probably should also be reported to the police in some cases where the police may have something effective to act upon.

If a threat is received, one should attempt to get an identity of those giving the threat. By that I mean get a license plate number from their vehicle, or even mark places they may have left fingerprints, and notify others within the group. We do have a viable network of members which can help out.

It is necessary to make progress in small steps and eventually the big steps will occur

over long periods of time, through these small steps. The small steps are less costly, and they will get your product on the market. Make them as small and simple as possible. If they can be made into a "fad" they will market.

I have not attended a Symposium which was not also attended by one or more infiltrators, who apparently reported to someone who employed them.

At the breakfast table, on the first morning of a three-day convention, several associates mentioned an attendee who did not seem to belong. We followed it up and finally identified an agent who was attending. NO! We did not just kick him out. First we kidded him for a while, and when he understood that he had been discovered, we invited him to join us. He was an entirely different person by the end of the day, joining in our jovialities, and actually becoming one of us. He was swung over to our side without any hard feelings. That does not mean he became a full participant. He still had a large hurdle to make, in showing that he could be trusted.

There was another meeting at which there was more than one agent. There were both the CIA and the KGB represented. After the symposium was over they even tried to trace some of us to our homes in other states. We have one ace in the hole which we can put to use. That ace in the hole is by living without greed for money. It is not greed which is a trap. It is a state of mind which clouds judgement and forestalls further advance.

It is a virtual impossibility for anyone or any group to destroy my work on Quantum Arithmetic because I have worldwide distribution. You will find copies of my books in many public libraries across the U. S. There are also hundreds of copies in private hands, all over the world. I once went to an airport and, over a cup of coffee, asked a passenger to Egypt to distribute five books to any convenient places in Egypt. When a friend of mine goes to far away places I will often give them several copies to give out at their destination. In this way there is at least one book on the island of Paulau, in the western Pacific, and others in New Guinea. India has several.

Then there comes a time when it is necessary to reach out to the public. For thirty years I submitted articles to the major science journals. They were all rejected regardless of how simple I made the article. I found that I was wasting much time trying to get published. I decided it was time to challenge the major science journals. In 1990 I began to submit a statement with my last article saying that this was the last free article I would waste time in submitting. In the future if they found they wanted to print any of my work they would prepay, under contract, at a price of one dollar per character space or \$3000 per typed sheet.

They previously had sent me rejection slips. Scientific American did this. They rejected an article of only two paragraphs, which I sent in 1991. Then three years later, this letter was getting under their skin and they hashed up a letter I had supposedly written. They published it as a "Letter To The Editor" in April 1994. When this issue hit the news stands, I received supportive phone calls from all over the United States and even Canada. Several calls were from people whose names I recognized from scientific articles they had written and published.

I am not making a huge splash but I am slowly making headway which will assure that Quantum Arithmetic will continue even after I am gone and my name is forgotten. In this research, even in Quantum Arithmetic which is a part of New Science, it is necessary to get outside of the laboratory and be of the management areas and the areas of social impact.

If any of the New Energy devices should come to be accepted by the public without reservation, it could cause serious impacts on the social and commercial structure of our society. They will open the way for other devices to become popular. That is one of the reasons for starting small. There will be a jolt, but we want it to be a small jolt, so the public can become accustomed to change. A large jolt is a threat to those whose vested interests are involved.

Now we come, again to greed, as it relates to marketing. Some products are being presently being marketed, and most are trying to

use a pyramid scheme. Just the adoption of the pyramid method of marketing causes a loss of credibility in all who are aware of the pyramid scheme. This scheme is based on greed, not only for the inventor but for those in the top of the pyramid. Remember those chapters on spirituality? Greed is not mentioned but it is behind the vice in marketing.

There is a unit cost of making an item in the quantities which are required to be ready for market. The builder usually makes a 100% markup to sell to the first agent. In the pyramid scheme the second layer of the pyramid is priced 100% above the price they had to pay to obtain it. Say the total costs per unit, including packaging and freight, were \$10 each. The first increase brings that to \$20, and the second 100% increase brings that to \$40. If there is another markup, the unit will now cost \$80 for something which the user could have obtained for \$20 or less.

If there is another level on the pyramid the price would be \$160 per unit, which is really less than the users are paying for the presently used item which is being replaced. The manufacturer is making \$10, but those inbetween agents in the pyramid are making \$20, \$40, or \$80, divided between them and the upper echelons of the pyramid.

In the first place, the final customer is not benefitting by the new product to the extent he should. This opens the door to competition and does not result in the cash-flow for the 'originator. The unit should be priced so that it is fair and not dictated by the price to the customer, being based on the cost of his present Out dated thing which is being replaced. If the manufacturer gets the idea of fairness, across to his customers, he can be in business for the long term, and not just a flash-in-the-pan. The alternative of continual mark-up or basing the cost of a unit on the going cost which the customer is presently paying, leads to an eventual fade-out of the novel item being sold.

But it goes much deeper than that. If we are to succeed, the public is smart enough to know that we have to get rid of greed in our society, If New Energy is ever going to succeed. The public also demands honesty. The society is

ready for honesty and needs it if there is going to be over-all spiritual growth into the future. if this change does not occur, all societies of the world will fail. Spirituality, and Creation, demand that we make this change.

The inventor must incorporate spirituality in their production. To be otherwise, the spirit world will insure our demise. As many researchers are beginning to find out, the spirit world is sincere in helping us through these difficult times. Very few inventors are able to describe where an idea originates. I have personally found that the spirit world has the upper hand in handing out the dispensation of workable ideas. it also has a hand in allowing us to defeat our own purposes, by wrong decisions, methods, and impressions.

A parameter of Advanced Science is hidden behind a cloud. This cloud is reinforced by the distraction of earnest research. The researcher is so involved with the science side that they will tend to forget the ultimate objective. That objective is to elevate our society in technology, in science, and in spirituality.

All researchers are aware of the first two, and work to those ends. But they forget about spirituality. They let their ego and greed, and sometimes lust for power, get in the way,. These get in the way and reinforce the cloud.

Now, don't those four intervening chapters begin to make sense? Don't overlook the spirit world as a part of our total progress.

Chapter 12

The Two Forms of Energy

And the Light and Metaphysical Myriads

Energy is continually flowing within the aether. There is conventional, (Dayside) energy flowing one direction and there is Nightside energy flowing in the opposite direction. They are out of phase by 180°. They will, everywhere, cancel each other and become invisible and virtual. Either Dayside energy or Nightside energy will manifest when the other is removed.

For the present let us characterize them as active energy for the Dayside (male) energy, and reactive energy for the Nightside (female) energy.

Most of our present energy is, active, Dayside (male) and outgoing. It leaves its tracks which result in pollution. The, reactive, Nightside (female) energy is attracting which leaves no tracks. It is being found to be nonpolluting. It seems, in fact, to clean up pollution, as we see it today. The use of the presently utilized sine curve does not fully demonstrate these two forms in unison. It is a bit more complex than that, but the sine curve will be used for demonstration. The next chapter brings in the Third Dimension. This tends to lead to the 3-dimensional sine wave, or the helix.

In our three dimensional world we should consider each sine wave as at least a three-dimensional helix. As we will find in the next Volume of *Pythagoras And The Quantum World*, energy is most probably a torus in shape. We see the torus as we see a smoke ring, but energy per se, is non-material and virtual. That is why it is difficult to picture it as we describe it.

Only when the energy picks up and throws matter about, can we get any visualization of it. It is as difficult to imagine any dimension higher than third-dimension from our third-dimensional domain, In the same way, it is

difficult for a 2-dimensional Flatlander to imagine the third-dimension. However, it is something with which we must eventually deal in order to understand and depict "energies".

When the Dayside energy is reflected, the reflection causes it to change phase by 180° creating the Nightside version. That is quite probably the cause of a difference in colored light and colored pigments. Starting with the colors, of red, yellow and blue as the male, or yin colors of light we derive the pigment colors of orange, green and violet as their complimentary, yang, color as reflected colors of pigments. On the other hand, starting with the orange, green and violet light, we come upon the reflected colors of red, yellow and blue. This is the "1-2" division in Quantum Arithmetic and creates the two genders.

It has not been well understood in contemporary terms, but the reflected phase change of 180° explains how the complimentary colors are formed in our senses. This change in color strictly conforms with all we have learned in Quantum Arithmetic. {For more detail on the relationships of colors, the reader is referred to the article "Color And The Trigrams" by Constance Achilles, in "FULCRUM"-- "*The Science Journal of The University of Science and Philosophy*" Volume 2, No. 3, (February 1994)]. This article describes colors from their basic aspect of the here-and-now and from ancient usage in I-Ching.

So, in the Myriad of IR, Light, and UV, the octave of Light separates the Yin from the Yang, the Dayside from the Nightside, and the active from the reactive. Again, this is a two dimensional split deriving from the number "2" in the system of numerals. One can also note that there are three colors of each type, which brings in the number "3" for 3-dimensional expression. From this we Put together the "1-2-3" of Quantum Arithmetic and entry into the third-dimension.

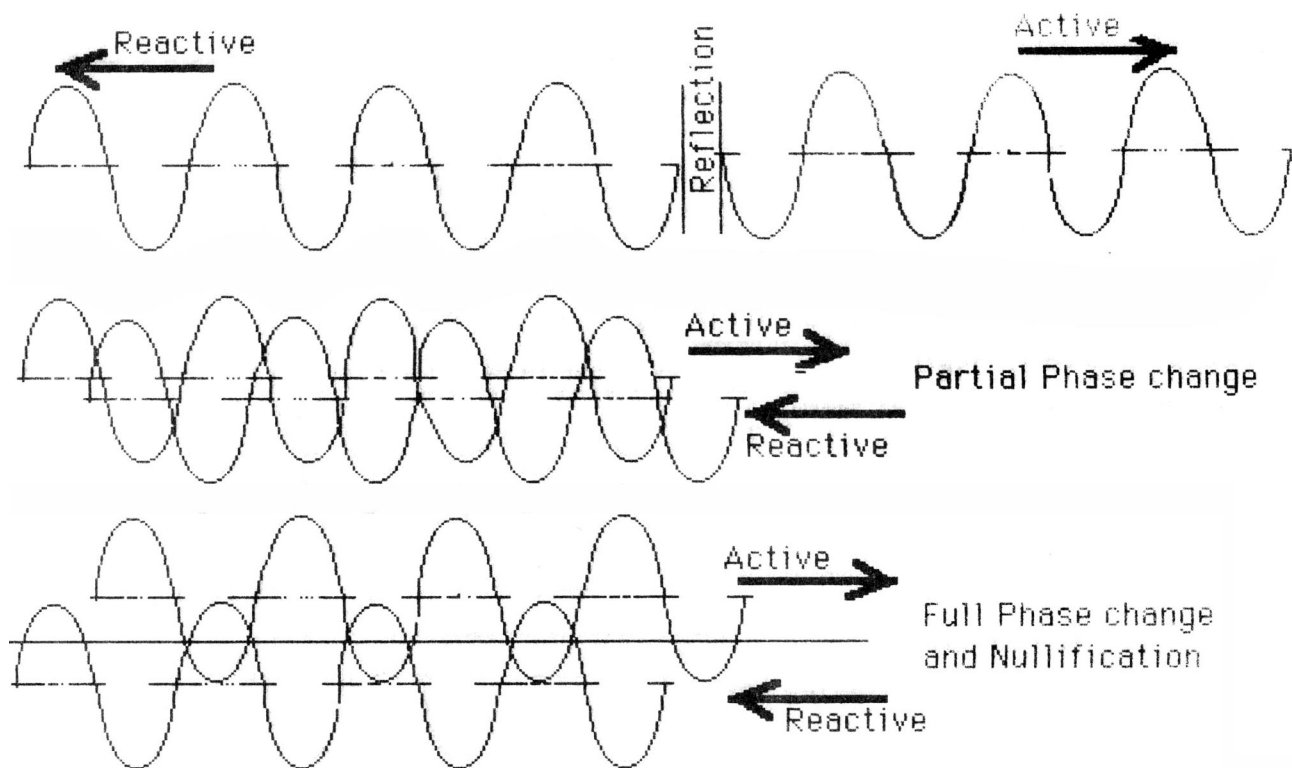
The Quantum Arithmetic which has been presented, so far, is 2-dimensions, as it is created by the number "2". The "2" represents the female attractive or reactive energy. It is used to depict 2-dimensional pictures and graphs in rectangular coordinates. The number "2" also generates the two forms of energy which we are considering. This was covered in an earlier volume. It is anticipated that the work in Quantum Arithmetic will be expanded in the following Volume 4, when it is published. This will bring us to the three dimensional application of Quantum Arithmetic.

If the reader will forgive the shortcomings of depicting something which is virtual and cannot be pictured in Our 2-dimensional, or 3-dimensional The graphic below will try to make that picture.

This carries us to the top edge of the 3-dimensional world, and its bordering into the spiritual world.

To get deeper into it we must consider what little we know of the spiritual world. I have come to the conclusion that we do not have original ideas. The ideas are either recovered from past life experiences or are given to us from the spirit world. This tends to help explain "Synchronicity". It is the result of the spirit world working in many different areas at a given time. The spirit world is not hampered by having only three dimensions. In some way, there is a different way to consider space time, which has no indication of existing in the spirit world. Time/space is discontinued and replaced with something else.

The most basic way in which an idea starts is with the spirit world, which projects a



A PHASE CHANGE FROM DAYSIDE TO NIGHTSIDE AND NIGHTSIDE TO DAYSIDE

thought. This thought becomes a picture and then becomes a word. We are left then to materialize that word and thought picture. To do this we must consider higher dimensions, and higher frequencies.

In the spirit world, time and space are also quantum. That is to say that time/space, at this higher frequency does not move. It is either in one place or another. It may disappear and reappear at a different place, giving the appearance of movement. That is exactly the way I perceived it during my NDE. All of the pictures I saw were stop-frame pictures. If there was movement, it was shown as the position before the move, and another picture after the move.

This begins to explain the paradox of contemporary science of "is it a wave? Or is it a particle?" It all depends upon the dimension in which something is considered. All particles are in third-dimension. All energy is in the higher so-called, "fourth dimension".

To bring this down to earth, consider making a movie of a speeding automobile. On the film it will appear as a series of stop frame positions of the automobile, at intervals of 1/16 of a second. In television all the pictures on the screen are stop frame at 1/32 of a second. Our viewing it from the third dimension gives us the appearance of movement. In reviewing the technology we find no technology in the Metaphysical Myriad which discloses any movement. Everything is stop frame. It is as though time and movement, or space, cease to exist. In this Metaphysical Myriad it may be possible to move forward or backward in time/space.

So, that is the reason that it is all but impossible to picture energy from our station within the third dimension. The sine wave of energy is a compilation of considered stop-frame pictures, as we try to make a smooth transition from one condition, or position to another. It apparently cannot be done. It is another dimension and it is all quantum in Nature. At any given instant it either "it is" or "it isn't", depending on whether the picture is quantum or whether it is in third dimension.

This is a big jump to make in studying energy. We can consider it only in the third dimension. This makes it difficult to separate the NIGHTSIDE reactive energy from the Dayside male, active, energy. In knowing about the Dayside and the Nightside energies, we learn more about the Metaphysical Myriad. In the colors we can still show the results. In nearly any other type of energy the picture will be virtual and can not be visualized by us.

Energy is simply a vibration in several different modes. We understand frequencies or periods, and wavelengths, but that is not sufficient to say that we understand energy. We can develop an understanding in the different modes of vibration. There are three. In steel strings, one mode is simply a lateral vibration. In the second there can be a circular vibration, and the third is longitudinal and related to compressive vibration. John Tyndall these different modes in the 1870's, but his results are not expansive enough to make comparisons in various materials or densities of the vibrating materials.

In studying the two forms of energy, we must know more about the Metaphysical Myriad. It is sort of a catch-22. In order to know more about the studying the two, Dayside/Nightside, forms of energy, metaphysical Myriad, will help.

There have been research results from various recent New Energy projects.

The results show there are several differences between conventional energy and Nightside energy.

(1) They are complimentary to one another in the range of color.

(2) They are opposites in respect to temperature and heat. One heads for solar temperatures, the Nightside heads downward to frigid temperatures to absolute zero and possibly beyond.

(3) Nightside energies are related to anti-gravity and then supposedly, Dayside energy leads to gravitational pull.

(4) Dayside energies have top limits in any machine or instrument which harness it. Nightside energies go the other way. As more

demand for power is made on a generator of Nightside energy the machine goes on to produce it. There seems to be no absolute limit to Nightside energy, other than that imposed by the operator.

These differences are quite positively identified. There are these facts of understanding

DOWSING IN THE METAPHYSICAL

Dowsing seems to be an anomaly to most people. Many, including Dowsters, know next to nothing about how dowsing works. The curious part about it is that nearly anyone with the will to do so, can become a proficient dowser with practice, patience, and experi-

If we tabulate these differences they are:		
	Dayside	Nightside
In the light octave	3 primary colors	3 secondary colors
Heat	Increasing Heat	Increasing Cold
Gravitation	Positive gravity	Negative gravity
Availability	Limited	Unlimited

of these two energies. There are other differences which are rather qualified. This is particularly true in regard to magnetic conditions, which has not been correlated with the two way division for magnetism into north/south.

The use of magnetism seems to be a successful means for making the Nightside energy available in sizeable quantity. It was done in both cases where an aetheric vortex was formed. Professor Searl used magnetic conditions and so did Sparky Sweet. Tesla and Moray released this energy use of vibrators, but there may be other clues in their writings.

This is not much information, from which to work but it is more than has previously been put together. There are also thought energies, which are apparently at a very high frequency, and probably near the top octaves of the Metaphysical Myriad. One concentrated area of thought energy is to be found in the practice of dowsing.

Thought energy is stored as an energy field. Quite often that energy field is stationary and can be located and identified by a dowser separate from the dowser who created it. Remote dowsing is practiced by most dowsters after they have become proficient at on-site dowsing for anything.

ence. We can be sure that dowsing is in the Metaphysical Myriad, and can teach us something about that Myriad.

The first thing with which a Dowser begins is an objective to be reached. The Dowser then asks permission from the Creative forces to pursue this objective. Permission is gained, by dowsing for an answer to "Can I? May I? Should I?" If permission is approved the dowser may proceed. If it is not approved, the Dowser is prohibited from going further.

Most people connect Dowsters with locating a source for water. This has been the main goal of dowsing since prehistoric times. Dowsters have now branched out into nearly every field of information. They have also developed instruments along technical lines, and methods, to answer many various questions.

Dowsing is one of the few ways to enter the Metaphysical Myriad. it requires that one be able to get in communication with one's own unconsciousness. A main requirement is that the dowser operate on faith in their abilities, and not have unwarranted skepticism. Nor does one question the answers given by the Creative forces, However, one is not required to act on the answers to any question.

Dowsing has ethical laws which are not to be broken. One of these laws is that a dowser may not interfere with another person's destiny, except under rigid circumstances. It should

not be used to correct another person's faults or shortcomings, The limitations on dowsing subjects, other than the above, are few, and are limited primarily by the particular dowser's abilities

Once permission is given, there is no limit on the subject matter, physical or metaphysical, which may be covered, within the limits of that permission.

EXAMPLE

To give an example of the possibilities of dowsing and the way it works in the Metaphysical world: Two days after the crash of TWA-800, I tried to determine the cause and the sequence of causes leading up to that crash. I had to ask the questions such that they could be answered "yes" or "no", and I had to have permission to pose the questions. The answer to each question leads up to following questions.

The questions began with the cause of the crash, whether it was mechanical or was it caused by human or other factors. It was caused by mechanical failure, and the failure was in the inboard motor on the right wing.

From here the questioning continued with the sequences after the failure. The motor became unbalanced and the turbine literally blew up. It exploded outward from the fuselage, and badly damaged the right wing surface and structure. It tore through the right wing tank and released all of its jet fuel but did not cause a fire or, explosion of the gases. At the same time, the outboard motor on the right wing was still operating at full power for sufficient time for it. to pull the outer wing forward, hinged as it were by the remaining structure of the. wing. The motor and the outer wing then contacted the nose of the plane. This removed the nose cone of the plane. The fire in the released gasses from the jet fuel cloud, then exploded in the air from cabin electrical sparking, causing the first explosion heard from the ground.

The plane was travelling approximately 400 miles per hour. When the nose was removed, the 400 mile per hour wind entered the plane

causing immense pressure which stretched the fuselage covering., straining many of the rivets. The passengers and the crew immediately were made unconscious, and six to ten passengers and crew members died at this time. The remainder were unconscious until the plane hit the water, killing the rest of them on impact.

This is given as an example of the extent one can go in dowsing out answers to question. Remote dowsing was involved, and made possible within the Metaphysical Myriad, so it also gives some indication of conditions, and possibilities within this Myriad.

To continue on with my questioning, which came somewhat later, I asked as to the welfare of the victims of the crash. To those questions, there were somewhat less than half of them had gone through the portal to the spiritual part of the Metaphysical Myriad. Somewhat more than half did not and are still in their astral bodies in our present world. I asked permission to advise them that they had died, and to show them the way to the portal into the spiritual world. Permission was not given, so it ended there. I could have had permission to help individuals, if I could identify them. There were certain persons on board whose destiny called for them to stay for a period in the astral world.

The questioning then turned to the cause of the motor failure. It turned out that the plane, either on landing at the airport or in taking off, had picked up a small piece of some kind of wrapping or packing material, weighing less than four ounce, and possibly as small as two ounces, had been ingested by the failed motor. This threw the turbine out of balance. The acceleration of this motor at the start of a climb above 13,000 feet elevation, precipitated the impeller explosion.

Having dowsed out the answers to the crash, I did not have to follow the news stories about it. I had cleared also, that no explosives nor any missile was involved in the failure. Several days later I saw the right wing being recovered. I noted the condition, on the television picture, of the oddly twisted and bent internal structural members which were inside the wing, confirming in my mind, that I had

the right answers in that respect.

I wrote the report of the results of dowsing and posted it on the electronic bulletin board, (BBS) within a few days of the crash. At least forty other members of that BBS read the report at that time. I do not know whether other subscribers of this BBS dared to put it on Internet.

Putting things in the context of learning how the Metaphysical Myriad is organized, is the objective of presenting this example. Dowsing operates within the Metaphysical Myriad, and may, at times enter into the next Myriad, the Creative Myriad. Anyone can learn to enter the Metaphysical Myriad by this route or this portal. There is nothing magic about it, although many of the readers undoubtedly believe otherwise. One never knows until one tries it. We can learn a great deal about this Myriad because dowsing has a vast expanse of knowledge about it.

Whatever we can learn about the Metaphysical Myriad can never be finally proven, regardless of how the information is obtained. The type of proof used in the third dimension does not exist in the higher Myriads. The best proof which can be given will be the proof through positive results observed. But that is exactly how our present science is derived, -- by empirical results which are repeatable.

Be that as it may, New Science, and Quantum Arithmetic has developed a system of absolute proof which is getting beyond dependence on empirical results and theory. Quantum Arithmetic has developed a series of absolute Law based on mathematics, just as Euclid has been developed, in many cases.

CONTEXT

To put the entire system together: Energy is an aetheric vibration, which we believe is gravito-electro-magnetic. These vibrations are created in the CREATIVE MYRIAD beginning at something greater than one quadrillion hertz. It probably contains seven octaves of vibrational frequency. But we are far from determining much else about it, other than the fact that these frequencies, through the Laws of

Harmonics, gather together in groups of 5 to 7 frequencies and cascade down into the Metaphysical Myriad.

The METAPHYSICAL MYRIAD, also consists of seven octaves of vibrational frequencies. These seven octaves probably represent a different feature within the myriad. The highest octave probably represents Thought Energy. The lowest octave probably represents Spirituality or Spiritual Energy fields. The five octaves in between represent; Psi capability, including dowsing; Memory Energy Fields; The Christ Energy Field; and the field of the Spiritual Masters, in some order. Each of these octaves needs investigation and filling in.

Below this is the LIGHT ENERGY MYRIAD. Light is only one octave in the middle of this myriad. The highest octave appears to be the Astral octave. Below that are two octaves which we call the Ultra-Violet octaves. In the middle lies the Light octave which is divided up into frequencies of Color. Below this there are three more octaves. Two of them are the Infra-Red octaves and one octave of transferable energy in the form of photosynthesis.

This along with heat is cascaded into the MYRIAD OF CHEMISM photosynthesis is transferred primarily to living plants. The heat and light is also in control of chemical compounds. The Periodic Table of Elements occupies the entire seven octaves, and are the first created Matter. This is where the third dimension originates.

Below Chemism are found the three Myriads. The MYRIAD OF ULTRA-SOUND; THE MYRIAD OF SOUND AND MUSIC, and THE MYRIAD OF EMOTIONALISM, which includes Brain Wave frequencies.

In all of these Myriads we have access, through our senses, only to Music, and to Chemism, both of which have seven octaves, and to one octave of Light. These three Myriads, through their commonalities, then allow us to consider the probable organization of the other four Myriads. The other four Myriads are Emotion, Ultra-Sound, Metaphysics, and Creation. There is so much to learn in these

four Myriads, from the information which has been collected so far.

This organization or knowledge is tied to the seven Myriads, but contemporary science has put a taboo against looking under the hood of the Metaphysical Myriad to learn what is there. There has been enough given in the previous four chapters that such a look is now warranted. When one hears the word "Spiritualism", there is a tendency to consider it as "Religion".

It is not religion any more, than the human body is religion. Religion is a relationship with the Creator. It is like the Potter and the Clay. The Creator molds the clay into whatever form the Creator's thoughts may take. This begins a relationship and is part of the characterization of the thing made. The human body and the human spirit each have a different relationship to the Creator. In studying the Metaphysical Myriad, we are trying to find out what the various relationships are. The spirit has a higher and closer relationship to the Creator than does the human body. The human body has a higher and closer relationship to the Creator than do the plants; or the various elements. The various elements have a higher and closer relationship, than do the notes of music, and the notes of music are closer than the human emotions. We are going down the ladder of relationships. None of these are religion, but all of them taken together will make religion.

That is not so say that Religion and science are entirely different subjects. They are one and the same subject, except the religion is a personal thing, which is to be acknowledged in working with the sciences, or the arts. It is the one thing which is missing in contemporary science. This attitude of holding contemporary science separate from religion is the one thing which is preventing science from making the advances which it could be making. So long as contemporary science excludes the work of the Creator, it will prohibit any scientist from getting much beyond the third dimension. It needs to be put into context in order for New Science to progress and to progress successfully. To do otherwise through human frailty is to cut off our access

to deeper knowledge. This is being done in several cases and there appears to be success beyond any previous expectations.

In colors, there are three combinations for the three primary colors, red/yellow, red/blue, and yellow/blue, may be matched. Each of these will make one of the three secondary colors. In Music we have the three notes C, F, and A, which match the three primary colors. Then there are the three notes C, E and G which seem to match the secondary colors. In the Table of elements we have the elements which have negative valence and those which have a positive valence. Again this leads to the two-way division within the science of chemistry.

Aetheric energy per se, falls in a higher Myriad and it also has its two-part major division between Dayside and Nightside energy. As we proceed further we will find there is also a 4-way division beyond the 3-way division of Color, in the Myriad of Light, and the 4-way division of notes in the Myriad of Sound.

When it comes to the division of each Myriad into seven octaves, we have a basis for considering that the Metaphysical Myriad is probably also divided into its seven octaves. If the product of energies is in one of the other forms such as heat, gravity or amplitude, we still have not developed the proper parameters. Some of these parameters will carry over into the Metaphysical Myriad. What are the proper parameters for these products of energies?

The previous chapters concern the many observations of the Metaphysical Myriad, which I have made, derived principally from my own personal experiences. Each of these experiences pose many questions, the answers to which fall within the Metaphysical Myriad.

Each reader probably has their own experiences to add to these. Any reader who is in even minimal contact with their unconscious. Will probably have many incidents from their own life to add, and to fit them into the Metaphysical Myriad. With the advent of the Photon Belt in the past year, it has brought many people into that contact, possibly without them knowing it.

This chapter will close with a simple listing of some of the major questions which arose in the chapters on Spiritualism and should fit within the Metaphysical Myriad. Each well known Myriad has its two forms of energy.

From Chapter 6:

Spiritual derivation of Quantum Arithmetic; Astral experience in the last three days with Archimedes; The appearance of the spirits of past scientists; My Near-Death-Experience (NDE) in 1986; The return of my mother in astral form and my helping her find the portal; The White Duck heading north.

Not listed in these chapters are:

There have been many incidents after my NDE which could easily culminate in my death;

The serious aneurysms I have had for the past 30 years but only recently diagnosed.

My heart attack this year and a stroke three years ago. Only recently another aneurysm was stretched to the breaking point and leaked a little but then was assuaged.

Each one had a miracle recovery. The recovery from halogen poisoning which was going to send me to the operating room but I was given the proper home cure.

The poisoning was diagnosed as a cancer of the lung in 1981. I was given a home cure for it, spiritually, and there was no operation. The 'cancer' disappeared and it has not returned in the past 15 years.

From Chapter 7:

My out of body experiences, OOB, in correcting my daughter's psychic invasion, with a follow-up OOB to check that the problem was resolved.

My new-found ability to guide lost astral bodies to the portal to the spirit world, thus, helping them, and at the same time helping their previous victims to recover a stable and

healthy life.

A young boy whose character and personality changed on being able to tell me about his invisible playmates and past-life memories.

From Chapter 8:

Children and non acceptance by their parents of their playmates.

The stop-time mode I went into in the tree incident and other questions.

Similarity of my accident and the story by Plato in Book VII of *Republic*.

Other similarities of events about walk-ins of others.

The invisible playmates of many children.

The mental blocks which children develop from eradicating these playmates.

The development of the atomic theory in Greek times.

The 10-year old boy who recovered his ancient mathematical memory after less than three hours instruction in Quantum Arithmetic.

From Chapter 9:

The miraculous memory of many past lives by another boy, Billy.

His diagnosis of the portent of prevalence of high pitched sounds

The war veteran in Denver who corroborated his story of Barbons

From Chapter 10:

The chain of events leading through the Christ spirit in many different bodies.

The capabilities of the unconscious and the body coming into communication with it.

Mental blocks from being out of touch with

the unconscious.

Amazing results from applying the Laws of Love, Charity, and Gratitude.

The amazing penalties for applying the laws of Hate, Greed and Intolerance.

The Shasta People and their origins.

I am interested in similar incidents which any reader would care to report to me. I am most interested in those incidents which can be confirmed by later physical incidents, as having a solid basis.

It is possible that someone would like to put such reports in book form. If so, I can gather the reports and send them to someone who is interested in doing so.

My use of the reports will be only to try to put them in orderly form to flesh out the Metaphysical Myriad.

Energy is continually flowing within the

aether. There is conventional, (Dayside) energy flowing one direction and there is Night-side energy flowing in the opposite direction. In most cases these two types are so evenly balanced that they cannot be detected because, although the available female energy is) so much greater. it will still only balance the male energy.

The aether is the most elastic material of the universe. The female energy seems to get its extra quantity by liberating energy which is bound up in the more densified energy, of such things as matter when the cold it produces reaches, or nears absolute zero.

With that, the next chapter of this volume will get closer to what we are beginning to know about the third dimension of Quantum Arithmetic from Dr. Elkins. His contribution will use fairly solid knowledge to replace the so-called Magic which people have rightfully condemned. Hopefully this will continue later, into Volume 4 of *Pythagoras And The Quantum World*.

[Editor's Note: Iverson's life stream was interrupted (heart attack) before he could write volume IV of *Pythagoras and the Quantum World*.]

Chapter 13

THE QUANTUM SETUP

Quantum Arithmetic demonstrates Nature and its "Filing System". In its own way it keeps all things in separate files according to the specie, and genera to which it belongs. It does this through the number system. Or should we say, "system of prime numbers?"

The number "one" designates Creation. It creates the remainder of the numbering system, in which each additional number is separated from the previous number by one unit. So, the System of Numbers Is really a system of integers. Each item in our catalog of Creation is given a unique number. This sets up the system of "Quanta" in which each created item is designated by a certain whole number.

The next two numbers are "2" and "1". These must be factors of any number which is uniquely assigned to any item of Creation. These two numbers each have an additional duty. The number "2" divides the numbers into two parts. These are the odd and the even integers. It also divides the items which they represent into two categories. One category is the compliment and opposite of the other. The other number, "3", has not been finalized, but it prepares us for the Third Dimension. It was also discussed previously that it sets out the Twin Primes, in the System Of Numbers, after the prime numbers are created.

The Creation has one more thing to create. It must create something to count and identify. So, energy was created. Energy, working in compliance with the numbers, started the process of creating all else. A single energy is a single vibration, and there were 5040 different Quantum Vibrations. The number 5040 was chosen because it is factorial 7 or the product of the first 7 integers. The Greeks called it the "magic" number. (It is also $7 \times 8 \times 9 \times 10$ and again it is one unit less than the square of 71.) Each numbered vibration was assigned a unique Quantum

Number value which is designated by four integers.

These numbered vibrations worked with other numbered vibration, so that there was harmony between them, or varing degrees of disharmony between them. Two numbered vibrations, in harmony, would be attracted to each other.

Two numbered vibrations which are in disharmony would tend to repel each other. This was in line with the law of opposites which was established previously by the number "2". (The Law of Harmony is discussed in Volume 2.) So, now there are two forces, or the push/pull of nature. This characteristic of each energy value is designated as male/female, or Day-side/Nightside, or hot/cold energy, or right/left, North/South, etc.. Yes, cold is not just the absence of heat. It is a distinct energy type.

Creation, now needs another category so it creates the number "4". This divides each of the two previous categories into two parts, making a 4-way division within the System of Numbers. The even numbers are divided into those divisible by only 2, and those divisible by 4. The odd numbers were divided into the $4n-1$, and the $4n+1$ odd numbers. These are described in Definitions by Euclid in Book VII. In these present volumes the even numbers are called "2-par" and "4-par". The odd numbers are called "3-par" and "5-par" respectively. *The numbers assigned to various energies were also divided by 4, but on a different basis. We are not ready to discuss these until we get into three dimensional Quantum Arithmetic, and into New Energy applications. The reader is asked only to anticipate this.*

The Creator continues by creating the numbers "5" and "7", filling out the main categories of its filing system. It also established a

system of Quantum Numbers for each thing which was composed of only these numbers up to and including 7. These Quantum Numbers are very limited, being: 1,1,2,3; 1,2,3,5; 1,3,4,7; 2,1,3,4; 2,3,4,7; 3,1,4,5; 3,2,5,7; 4,1,5,6; and 5,1,6,7. It is as though these are "creative" Quantum numbers and are used only by the Creator. (Dr Elkins will have something to add to this.)

The Creator also created bigger quantum numbers which contain five to seven prime factors. They all contain a factor "2" and a factor "3" for one of the divisions. In addition to these are three other categories: The Quantum Number may contain a factor "5"; They may contain a factor "7". They may contain, neither or, both a factor "5, and a factor "7". This gives us a 4-way division of Quantum Numbers, for our catalog listing. Whether there are 5, 6, or 7 prime factors, they must be such that one can combined primes such as to have only four co-prime integers. Then these four must be able to be arranged into a 4-Integer Quantum Number such that the two intermediate integers are prime to each other. Secondly, the first is the difference between the two intermediates and the fourth must be their sum. it must be in accord with Euclid Book VII, Proposition 28.

What has been described, is one scale of the creation of energy which will be called "One Myriad" of seven similar myriads. Each Myriad reaches from 1 to approximately 10,000 hertz. The working myriad actually reaches from 1 to 5040 hertz. Between 5040 hertz and 10,000 hertz is essentially an overflow area. The higher the number of hertz in any Myriad, the weaker is the quantum effect.

In setting the working Myriad to a maximum of 5040 hertz, also limits the prime numbers which can reasonably used in a Quantum number of a thing. The value 5040 is derived as the product when the seven prime factors are multiplied together. Above that, the value 5041 is 71 squared. The prime number, 71, appears to be the highest prime number which can be used for the mean, (d), within any Quantum Number. That will limit the highest integer, (a) of a Quantum Number at something less than twice 71, or to prime numbers below

142. These are, roughly, the parameters of a Myriad.

To make the span between the beginning, (Creative) Myriad, which has a top value of approximately 4 Quadrillion hertz and a value accurate to one hertz, down to one hertz vibrations. The Creator then divided this whole span into seven Myriads, each of which has the same parameters as those laid out above. They will be called (1) The Creative Myriad; (2) The Metaphysical Myriad (3) The Light, or Electromagnetic Myriad; (4) The Chemism Myriad; (5) the Ultra-Sound Myriad; (6) the Sound, or Music, Myriad; and (7) the Emotional Myriad each being of lower vibrational frequency of about a magnitude of 10,000 : 1.

The lowest Myriad is the one which created "Humanity". It is the range of frequencies at which the emotional brain operates. It runs at something like a vibrational period of one vibration every four seconds which is 1/4 hertz, and from there up to about 25 or 30 hertz, to make up seven octaves.

The next lowest Myriad is the Myriad of Sound and Music. In music there are again seven octaves. They are relatively well identified, as to the general characteristics of each octave. The precise beginning and ending of each octave is not well set, but they can be determined with the recovery of Music of The Spheres. Within each octave are four prominent notes which are identified as C, F, A, C. This expands into the secondary chord of C, E, G, C.

Music is probably the best understood Myriad of all seven Myriads. As we find corresponding characteristics in two other Myriads, we can get a gist of their general composition. One thing we find to be changed from conventional concepts is that any number which is a power of a lower prime number, will also act as a prime number. That is to say, 8, 9, 16, 25, 32, and 49 will act as one of a pair of twin primes. In each case, the number which falls between the two primes which are twins, will be divisible by 3. This sets out one of the uses to which the number "3" becomes active.

The third Myriad from the bottom is the Myriad of Ultra-Sound, which lies just above

Music. We can assume this Myriad is divided into seven octaves, and that there are prominent frequencies, being like the Music Myriad below, and the Chemism and Light Myriads above it.

How this Myriad works in Nature is relatively undetermined. One feature has been found in the interaction between the Ultra-Sound Myriad and the Music Myriad. By using digital, (silent), notes from the Ultra-sound Myriad, in certain combinations, they will produce audible tones in the Music Myriad. This appears to be an analog to the way colors from the Light Myriad can be cascaded to the Chemism Myriad as photo-synthesis. This process is called, "Cascading". The critical feature which must be maintained is that the different notes must be harmonic to one another, and there may be up to seven of these notes, wavelets, of the upper Myriad, which are involved in a cascade to the lower Myriad. The subject of "Harmonics" is discussed in Volume 2 of *Pythagoras And the Quantum World*, in chapter 5 with the definition given on page 81.

The fourth Myriad from the bottom is the Myriad of Chemism, or chemicals. It begins with the Periodic Table of Elements. Again, there are seven octaves or Periods in this table. The second and third octaves have seven elements plus a noble element. The first octave contains only Hydrogen and Helium plus their isotopes. The 4th and 5th octaves have 18 elements in each. (Mathematically there are 18 prime fractional parts into which an octave can be divided with fractions running down to $1/7$, and up to $7/7$.) The sixth and seventh octaves of the Periodic Table of Elements have 14 elements respectively inserted after the third regular element. The sixth octave contains 18 elements in addition to these 14 elements. The seventh octave is considered to be incomplete.

Many of the elements in these two highest octaves are unstable and radioactive. That is to be expected with their higher, and weaker, Quantum Numbers to hold them together. One can liken these to notes in the highest octaves in the Music Myriad. These elements will also transmute into natural elements with much

lower Quantum Numbers. There has been recent publication of being able to transmute elements, to a limited degree, in the Cold Fusion Energy devices of Fleishmann- Pons.

The fifth Myriad from the bottom, or third Myriad from the top is the one which contains the one octave of Visible Light. There are at least two octaves of Infra-Red light below the octave of Visible Light, and at least two octaves of Ultra-Violet above the octave of visible Light. As noted before, it is reasonable to believe that the third octave below Light may be the transformation of energy in cascading downward into the Chemism Myriad of Matter. There may also be the third octave above light which also acts as a transform from the Myriad above, as noted in a previous chapter concerning discarnates who have died but have not reached the Portal to the upper Myriad.

So far, our five senses are credited for nearly the sum total of all of our so-called firm knowledge in science. The Music Myriad is accessible through our hearing. The Light Myriad is accessible for one octave to our sense of sight. The Chemism Myriad accounts for the other three of our senses of Matter, which are touch, taste, and smell.

Now to go to the second Myriad from the top, the Metaphysical Myriad, we have touched on the movement of discarnates into the next dimension where spiritual ascension is thought to exist. This also seems to be the Myriad where most of the thought energy becomes possible. This is in contrast to the lowest Myriad, where the emotional energy is known to exist. We do not know whether thought energy is confined only to this Metaphysical Myriad. It may be possible to extend it into the top or Creative Myriad.

This is the realm in which Dowzers work in all of their accomplishment. They can locate objects or substances, which are unseen such as underground, lost, or distant objects, or water. Dowzers are also capable of creating "thought forms" which other dowzers can locate and describe without further information. Some dowzers say they can communicate with their own unconscious, which is all knowing.

That would occur, also, in the Metaphysical Myriad. A thought form is essentially a cohesive and coherent energy field.

Other people have developed considerable psychic ability, and a few can channel information from the Spirit World downward into the lower five Myriads. In the case of Sai Baba, he is said to have thought forms which are powerful enough to actually materialize complex material objects and make them manifest.

This Myriad is what the five chapters in the middle of this book are about. We do have considerable metaphysical information concerning working in this Myriad. Some of it can be tested and has been, but most of it is beyond our testing capability. We know little about this field, not because we have no information on it, but because conventional science has placed a superstitious taboo on the dissemination of this information. This is the reason that those five chapters in the middle of this book are important to Quantum Arithmetic. If we can better understand that second Myriad from the top, we gain greatly.

With this much established we are now ready to go into practical usage of Quantum Arithmetic. The first usage is in making an hierarchial catalog of all created things. In fact, all knowledge can be catalogued as nature catalogues it. With this knowledge we can begin to understand the complexities of matter by considering that all matter is only a very specialized energy field in one of the middle Myriads of Creation. Does that not explain the Book of "Genesis"?

The four integers and/or their product, or the product of its prime factors, is what is called a Quantum Number. As four integers, these four integers become the "roots" of any practical problem which can be devised. It is absolutely unnecessary to go into higher mathematics of Calculus, higher Algebra, or even Trigonometry to solve any problem. Simple addition and multiplication is all that are needed, along with the negative addition and use of prime numbers in place of division.

Needless to say, this is what we should have

had instead of Fibonacci's 1202 A.D. definition, all these years. We must back up for these eight centuries and make corrections wherever they are needed.

Creation then sets up systems of numbers which are ruled by "5" and "7". Creation also sets up the system of prime numbers, each of which is independent, and unique, but is joined to the system through the Creator, "One". Each of these numbers, 1, 2, 3, 5, & 7, is already prime but Creation continues to set up the larger prime numbers in hierarchial order.

Each prime number might be considered as a separate filing cabinet in the system. The numbers up to "7" enjoy the highest place in the hierarchy of the system. The numbers up to "7" enjoy the highest place in the hierarchy of the quantum filing system. These are the ones which created the greatest Harmony and the greatest Sympathy.

This is all well and good so long as we stay in the 2-dimensional world. When we go into the Third dimension, Dr. Elkins will show us how to combine nine different Quantum Numbers into an enneagram, of pure energy. He also solidifies our knowledge of the Music Of The Spheres, and many of the other statements which were made above.

So, that demonstrates how Nature works, and how its "Filing System" has been organized. In its own way it keeps all things in separate files according to the specie, and genera to which it belongs. It does this through the number system. Or should we say "system of numbers?"

The number "one" designates Creation. It creates the remainder of the numbering system, in which each additional number is separated from the previous number by whole units.

This, then, demonstrates how Nature operates, and how its "Filing System" is organized. In its own way it keeps all things in separate files according to which unique prime numbers are assigned to it. These prime numbers identify the specie, and genera to which it belongs. It does this through the number system.

Or should we say "system of prime numbers"?

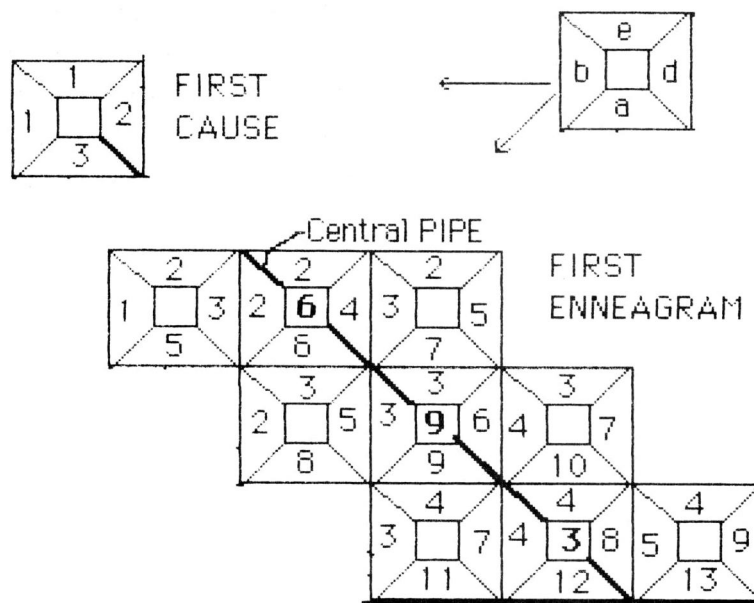
WE ARE NOW READY TO JUMP INTO
THE THIRD DIMENSION

Chapter 14

THE THIRD DIMENSION

We now start the move above and beyond the second dimension where Quantum Arithmetic has been concentrated. As astounding as this first and second dimension may seem, the

Quantum Arithmetic, and into the advanced three-dimensional form. It is a major leap in understanding. This includes, and demands, a good working knowledge of the Fibonacci



THIRD DIMENSION will bring many more surprises.

configurations and values as described to this point.

The reader should now, (If they have studied), be prepared to go into the Third Dimension of Quantum Arithmetic. The most important part of that preparation is working out Table 1, first given in QA-1. If that has not been done, it should be done now, at this time, before proceeding. Sheets for doing so are in Appendix A

To make the transition, TABLE 2 is given in appendix B. This table is the foundation of two-dimensional Quantum Arithmetic. It is organized with the numbers 1 through 15 for the columns, (Value of b), and 1 through 8 for the horizontal lines, (values for e). All squares in the larger blocks are calculated from these values, as described in the heading of the table as it was given in QA-1 text book. For the convenience of the reader they will be given again:

In Quantum Arithmetic, the beginning clustered around becoming familiar with the so-called "Fibonacci" numbers and the various series of them. in making the Quantum Jump we will be moving out of the two-dimensional

In the original table it was said that the non-prime blocks did not apply to 2-dimensional

Numbering in each by lines, horizontally from 1 through 20, they are:

- (1) b = Given in the column heading
- (2) e = Given in the line numbering to the left.
- (3) $d = b + e$
- (4) $a = e + d$
- (5) $B = b$ squared
- (6) $E = e$ squared
- (7) $D = d$ squared
- (8) $A = a$ squared
- (9) $C = 2de$
- (10) $F = ab$
- (11) $G = d$ squared + e squared
- (12) $L = beda/6$

b	e	d	a
B	E	D	A
C	F	G	L
H	I	J	K
W	F	Y	Z

- (13) $H = \text{sum of } C \text{ and } F$
- (14) $I = \text{difference of } C \text{ and } F$
- (15) $J = bd$
- (16) $K = ad$
- (17) $W = C/2 + K$
- (18) $F = F$
- (19) $Y = C + E$
- (20) $Z = G + C/2 = G + de$

This is the complete list of identities which are used in 2-dimensional Quantum Arithmetic. They will carry over into the 3rd dimension.

Quantum Arithmetic. These non-prime triangle blocks are necessary in the 3rd dimension-Table 2, as given in appendix B, is also different and more complete than the original table in that it contains both the male and female gender Fibonacci groupings. This table has one more feature which must be changed. It will include working out parts of those squares which are listed as "non-prime". In other words, every square of this table must be filled and will be used. -- male squares, female squares and non-prime squares.

The Fibonacci numbers are not a series. They come in groups of four integers. The first such four number group is 1, 1, 2, 3. This is the aboriginal group, and it creates or generates all of the others. In that respect, every other generated group must contain in the factors "2" and "3", (which occur in this first "creative" group), in one or another of the four integers in their four-integer group. These two factors are what create the "quantumness" of four-integer group. These two factors are what create Quantum Arithmetic, in the second dimension.

In previous work the text touched on the Third Dimension in several cases, but did not go into the dimension itself. One case was in the algebraic formula showing the derivation of the Babylonian formula for the Volume of a truncated pyramid. Another case was the formula for the volume of a tetrahedron, using variables of two opposite sides and the perpendicular distance between them.

ular distance between them.

There was also some investigation of the five platonian solids as they related to the numbering system described in the previous chapter. There are three solids, the tetrahedron, the octahedron, and the icosahedron which have faces of equilateral triangles. The cube uses squares for its faces, and the dodecahedron uses pentagons for its faces. Here we have the application of the basic 3, 4, 5, as 3, 4, 3, 5, 3 as faces of the various polyhedra, respectively.

The two largest solids use the 3, 4, 5, also in a different way. The dodecahedron has $3 \times 4 = 12$ pentagon faces, each of which has 5 bounding edges. The icosahedron has $4 \times 5 = 20$ triangular faces. That will eventually come into play in 3-dimensional Quantum Arithmetic.

There was also mention of 3rd dimensional penetrations which could be made with the fractals created by equilateral triangles.

It is now possible to enter fully into the THIRD DIMENSION with of the work which has been done by Dr. Carl Elkins.

While I was working in the first and second dimension, my guide told me not to go into the Third dimension. In 1995, Dr. Elkins saw a listing of my books and ordered the full set. These were sent to him. Within two weeks he wrote back that he understood them. He was surprised that it was the foundation of his

work in the third dimension. When he advised me, I began to see why I was not allowed to go into the third dimension by my spirit guide. I was supposed to get the first and second dimension complete enough to make applications of them. We had been working independently, not knowing the other was working on a different phase of the same mathematics. Dr. Elkins had little trouble to adapt his work to the, identities which I had assigned. This had to be spirit planning.

Dr Elkins had been working on the third dimension for a number of years. When he saw my work he straightway wrote up a table and sent it to me. It was all new work to me. I studied it for some time and Dr Elkins led me through it as far as I could understand. Finally my own spirit guide enlightened me enough for me to carry on in making a connection between my work and that of Dr. Elkins.

This much was determined in volume 1. It leads us into the measurements for calculating the torus volume, circumferences etc., so long as we have the Quantum Number for any specific torus.

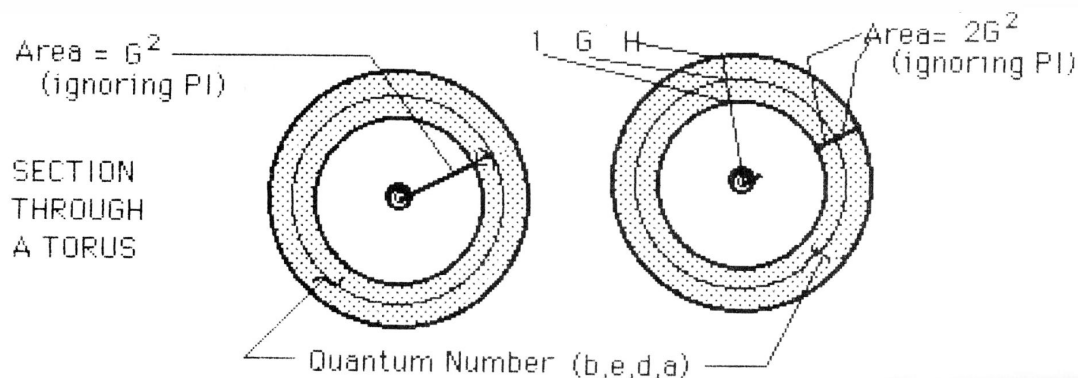
the area of the torus into two equal areas. The centerline of the torus is $(H-1)/2$. That gives us most of the information we need to begin to calculate the parameters of the torus from first and second dimension.

To begin, we will not use the complete table. We will use only the squares which run diagonally down from the creative square through a series of nonprime squares, being 2, 2, 4, 8; 3, 3, 6, 9; 4, 4, 8, 12, etc. . . . , down to 13, 13, 26, 39, (See Table 2). These are the children of the 1, 1, 2, 3 and are the "secondary creative" groups. Each of these squares will be accompanied by the square to their immediate left, and the square to their immediate right.

Each of the three squares in each line will show only the roots, as given in the top line of the squares as given in Table 2, (Appendix B). Dr. Elkins advises me that the center square is filled by a "scalar" value, which is the remainder when the 9's are "cast out" of "a".

He writes: "Now you must look at the Central Pipe. At the top is the 1, 1, 2, 3. For any Myri-

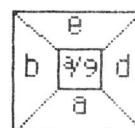
For a start let us revert to the Koenig Series in which the radii from the center of three circles are I, G, & H, and the value of $H^2 + I^2 = 2G^2$.



The radii for the three circles are $H=C+F$, and $I= C-F(Pos)$. So the midpoint of the ring of the torus is a radius of C, (or F), from the eye of the torus. The line shown on the diagram above as G, is not the centerline of the torus. It is used for calculating surface areas of the circles and the rings. The G-circle divides

ad, this is First Cause [diagonally) to 13, 113, 26, 39. This Pipe contains all the descendants of First Cause. This is the energy of the aether which anyone can access., -- if we can understand how it cascades through the Myriads, Quantums, and Octaves.

"First we must see how the Myriads are connected. The Myriads are connected as follows, [2, 2, 4, 6, down to 13, 13, 26, 39. which is the first Myriad.) 1, 1, 2, 3 is the same as 13, 13, 26, 39. Everything repeats, Only the scale has been changed. This can be proved using Quantum Arithmetic."



QUANTUMS

"Now we must ask about the Quantum. First Cause (1, 1, 2, 3) FIRST QUANTUM creates an energy system, for each Quantum, This energy system, (as shown), is a parallelogram around the central PIPE of Quantum 1.

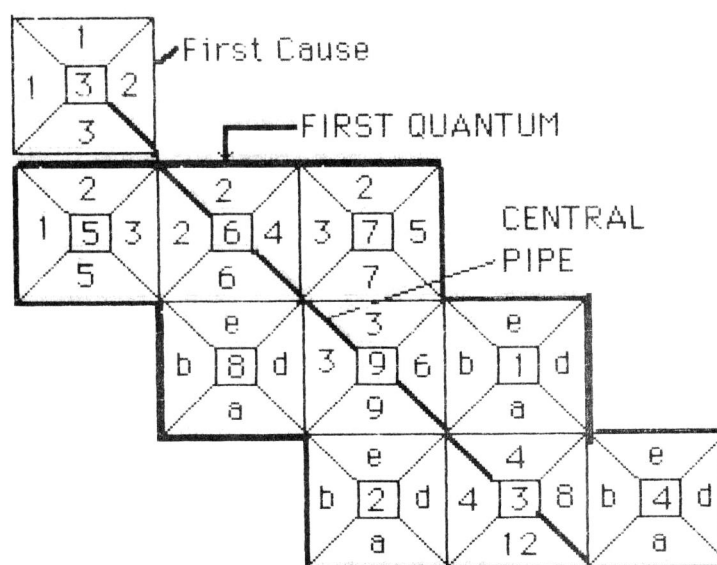
"The central number of the NINE squares is derived by "casting out nines" from the "a" of beda. It can be shown mathematically that all ONES, TWO'S NINE'S are scalar quantities of the same number as shown. So, this is the repetition of each parallelogram in a Myriad. (See Table 1, which should have been completed by this time.)

"There are only 4 Quanta in each Myriad, (See Table 2). There can be no more than FOUR QUANTUMS in a Myriad. $1 + 2 + 3 + 4 = 10$.

"First Cause (1, 1, 2, 3) which is a [3] system, creates the first Quantum. And the [3](4, 4, 8, 12) of the first Quantum, creates the 2nd Quantum. This follows for all four Quanta.

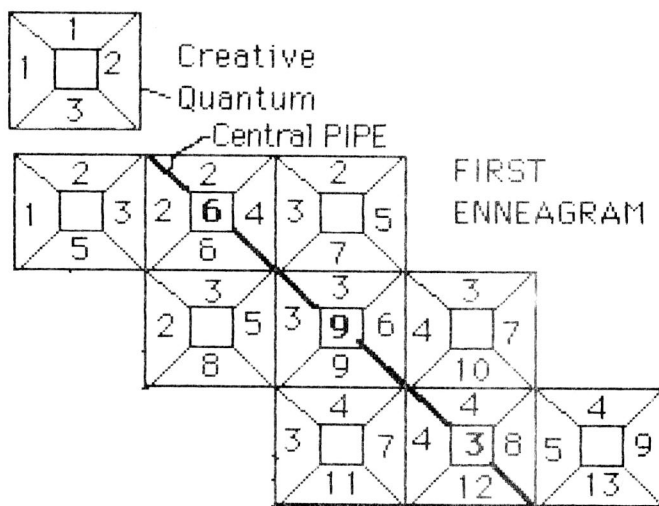
"The parallelograms around the central PIPE are resonant forms of the energy of the 6, 9, 3 system. HERE IS WHERE WE GET TO AN UNDERSTANDING OF THE TORUS. You'll be able to see that there is a relationship but we must see it as a Torus to fully get its implication.

"Pythagoras first saw this relationship as a combination of the 6, 9, 3 and of the 7, 1, 4, 5, 2, 8. This is a combination of the Law of Three (the Trinity) and the Law of Six (The Octave). Thus he used the enneagram symbol as his signature. I do not believe that Pythagoras knew about the torus but perhaps he did. He must have learned of the b, e, d, a in the



Egyptian temple at Heliopolis where he is known to have studied. The priests(ess) at the Egyptian Temple of the goddess of Isis were fully aware of the torus and also of the path of the ellipse. This pattern is recognized in the star Sirius (Isis) and in Osiris' star (the largest star in Orion's Belt).

"But I digress... The parallelograms along the central PIPE are all resonant energy forms of the FIRST CAUSE. They are Co-Creators of all that is manifest.



None of these energies are visibly manifest to us. They are CAUSE NOT EFFECT."

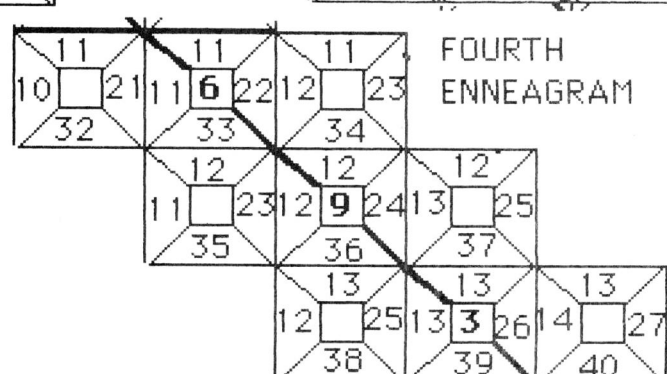
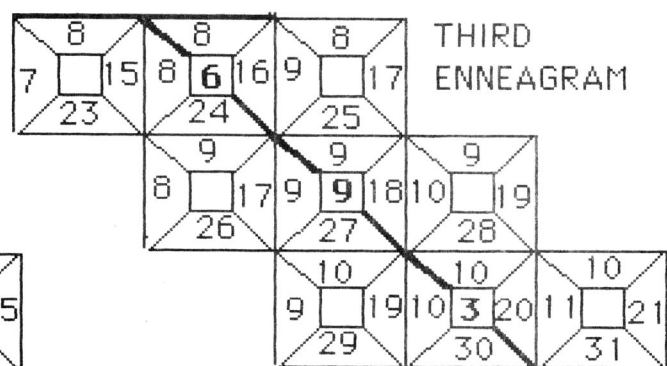
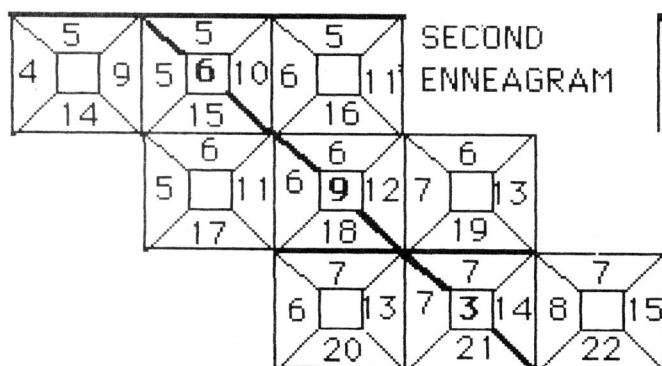
The comment by Dr. Elkins will be broken here to explain the diagrams which accompany his text.

There are only four enneagrams on the central pipe and no more than four in any Myriad. Each is created by the enneagram before it. The first enneagram is created by the Creative Enneagram (Quantum). The fourth enneagram in any Myriad creates the next Myriad.

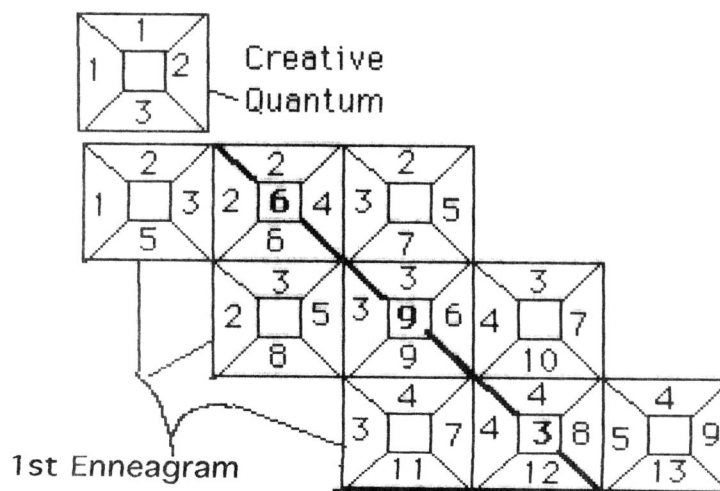
Given here are the enneagrams which are on the central PIPE.

"Myriad" is somewhat more precise than the "myraid" (10,000), which was previously described in the distribution of energy.

The Myriad of 36 sets of root numbers from 2, 2, 4, 6 to 13, 13, 26, 39 is divided into four parts, each of which is called an "Enneagram" (derived from the practice of "grouping by 9's"). Each is composed of nine sets of Quantum root numbers. Within each enneagram, the central "PIPE" is given a scalar value of the positive remainder when 9 is subtracted



Given here are the enneagrams which are on the central PIPE.



from "a", which lies directly below it. This is a process called casting out 9's" (i.e., to above $12 - 9 = 3$).

There are two different strings of Fibonacci numbers. The string in the male gender run 1, 2, 2, 3, 5, 8, 13, 21. The string of female gender Fibonacci numbers are 2, 1, 3, 4, 7, 11, 18. The last number n each is the first which is not prime or are the power of a single prime. So, beginning with "3" there are only four which are prime in these basic strings.

If the whole of Table 1 from *QA-1* is then shown, these "children" enneagrams will produce other enneagrams throughout the entire table. Each enneagram can be shown to represent its own unique torus, which in turn, will represent a special group of energy frequencies in the THIRD DIMENSION. Each torus is a part of the scheme of Music of the Spheres. There is much to look forward to in advancing to the third dimension of Quantum Arithmetic. In order to make this Quantum JUMP, the reader should have a clear understanding of Quantum Arithmetic in the second dimension.

APPLICATIONS

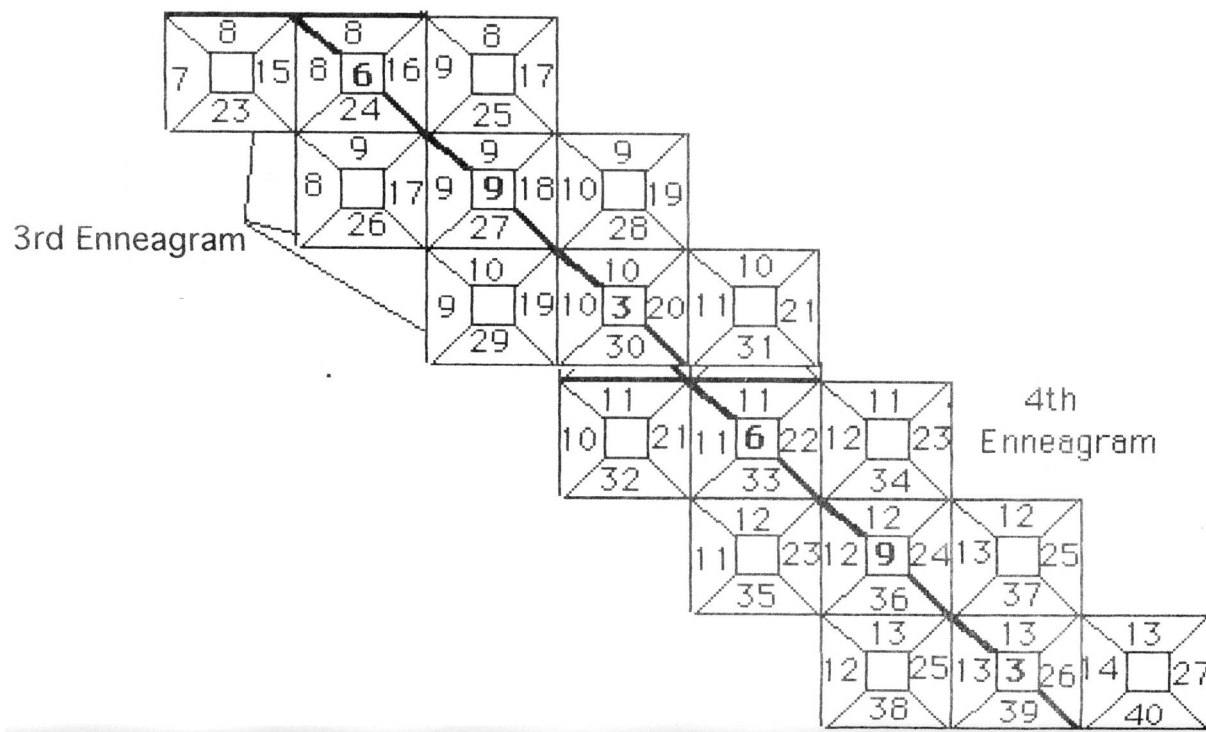
The objective of these books is not to show the useable applications of Quantum Arithmetic, but primarily to show the arrangement and order of numbers to form the Natural Quantum Arithmetic. Not with-standing, some very

important applications are being made by others who have gained sufficient understanding. There have been suggestions in other parts of these books which suggest possible applications which can be made, particularly in chemistry and in music.

With that, let me introduce Dr. Carl Elkins who has been doing considerable work In the Third Dimension. His work, until quite recently, has been entirely independent of Quantum Arithmetic in the first two dimensions.

Knowing the difficulty of carrying such a new view of old arithmetic in its new setting, I wish Dr. Carl Elkins much success. We will be working together in the future. I have published many editions of my books which did not have much distribution before I let them go out-of-print. There were many seemingly unrelated parts which were omitted in the later edition because they led in divergent directions. There are many, many of these minor points yet to be incorporated in the first two dimensions of Quantum Arithmetic. As in this present book, many of the chapters on the first two dimensions will be separate and free standing, to finish the many branching places which were minimized or omitted.

As Dr. Elkins writes, there should be many places where the first two dimensions will come into focus to help make the Third dimension more understandable. I will fill them in, as is appropriate to each case. Good luck



Carl, in helping the reader to make the QUANTUM JUMP.

To continue Dr Carl Elkins' descriptions: "To map what is manifest, we shall need only look at the parallelograms to the right and to the left OF the central PIPE.

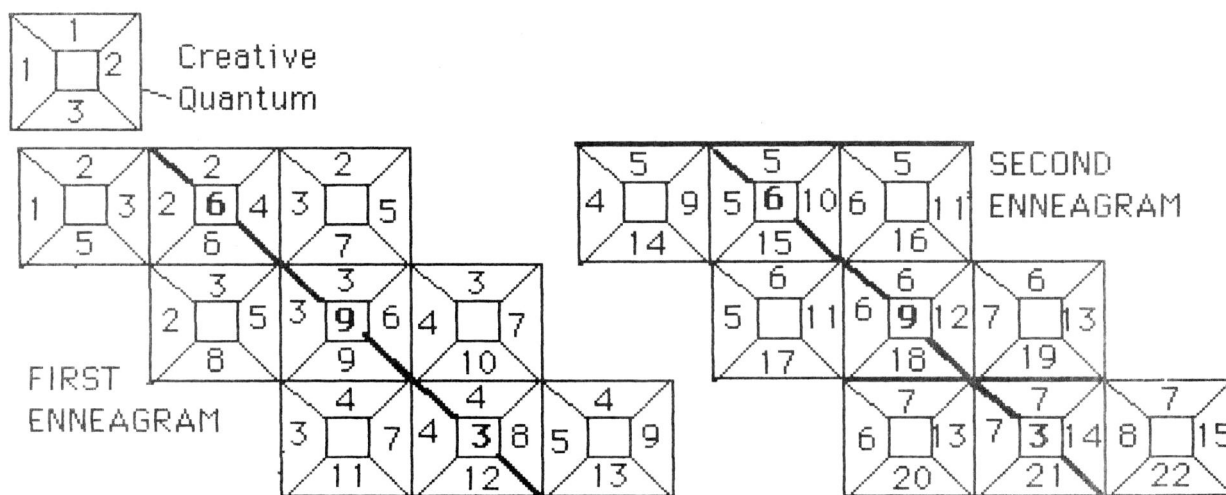
"THE OCTAVES

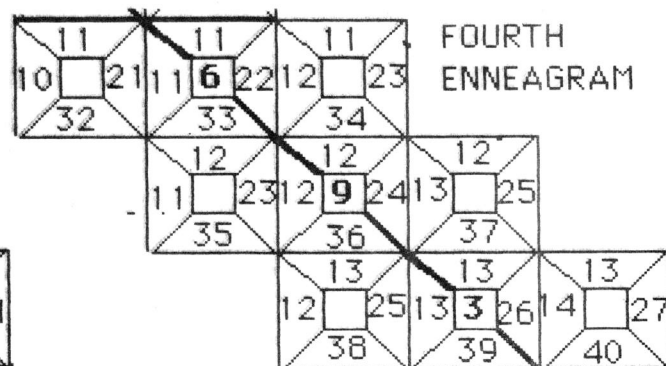
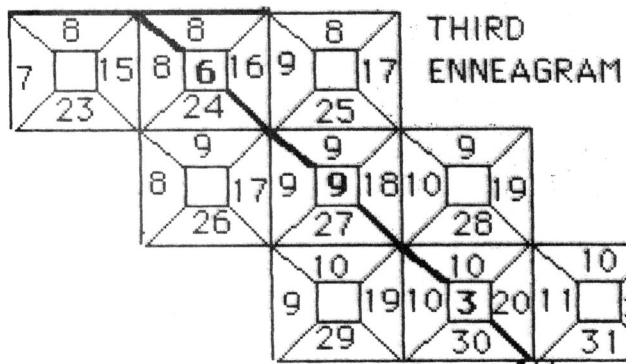
Here is our first chance to look at energy spectrums. I'll stay on the parallelograms on the

PIPE, (See page 85), because this is our direct link to the SOURCE, and our FIRST CAUSE.

"MUSIC

"In Quantum 1, we see that First Cause has created a SIX (2, 2, 4, 6); NINE (3, 3, 6, 9), and another First Cause, also a THREE (4, 4, 8, 12). If we can assume, as in MUSIC, that First Cause is some energy and that it may correspond to a note of a scale, then we might as well assign it the NOTE C.





"If so, then SIX, NINE, AND THREE of the First Quantum CO-CREATOR would also be a C note. In Scale the SIX would be One half of FIRST CAUSE, and NINE half of SIX, and THREE would be half of NINE. Mathematically we are speaking of the wavelength of this energy becoming longer as we descend the PIPE. So there must be three C Notes in each Quantum (enneagram). This relationship will hold for every Quantum.

"The relationship of all nine notes of all parallelograms is set out [below], which I called the Quantum Scale of Musical Notes.

THE NOTES

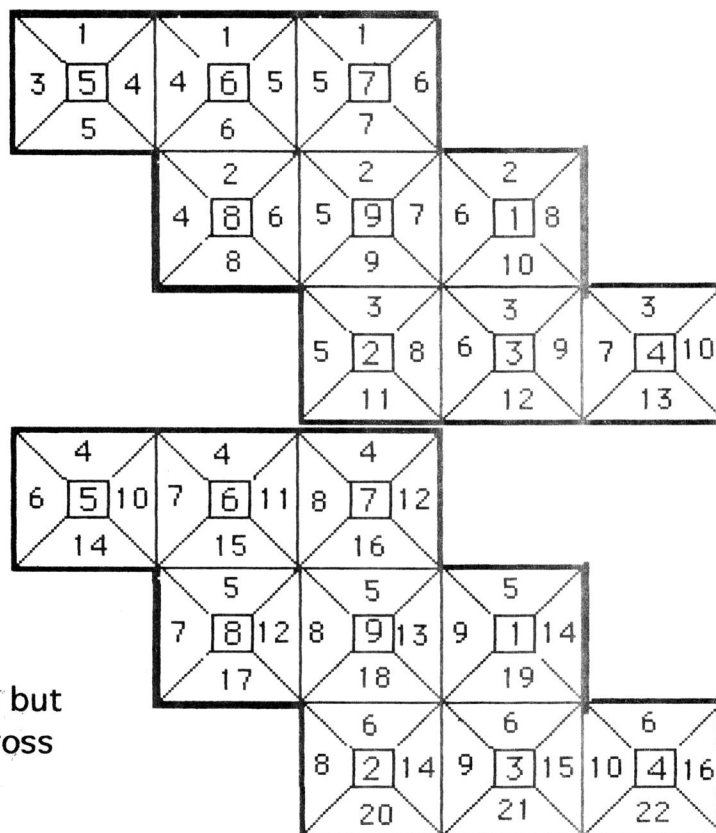
So we will see that FIRST CAUSE and the CO-CREATOR PARALLELOGRAM together produce the first manifest waveforms of energy. These are represented by the Parallelogram (shown page 87 to the right).

"Specifically the beda representations and notes of that which is first manifest are as follows:

b,e,d,a.....Note HZ.....WAVELENGTH

3,1,4,5.....	G.....	F
4,1,5,6.....	C.....	C
5,1,6,7	D.....	B
4,2,6,8	A	E#
5,2,7,9	C	C
6,2,8,10	E	A#
5,3,8,11	B	D
6,3,9,12	Cb	C#
7,3,10,13	F	G

Thus we see that Quantum 1 has but six different notes, (3 C notes) across three Octaves.



"In the Myriad of SOUND, if first cause is set to 86016 HZ then every Note, in every Quantum, in every enneagram energy system is a whole number. This relationship holds across the entire 20 KHz to 20 HZ audible range. It can be shown that all of the harmonics generated by any tone follow exactly the pattern described by the cascading of enneagrams. This will be the pattern described by the cascading of enneagrams. This will be the breakthrough long sought in physics which explains and unifies Harmonic and Geometric mean theories.

I am informed by Dr. Carl Elkins that he is willing to provide readers with a computer print-out of a 15" x 15" x 22" triangular sheet showing all the enneagrams up to (b, e =) 30-1; 1-30; and 15-15. This brings all of the enneagrams together in their interrelationship. He will send a computer print-out if the reader emails a request, to "torus@ipdi.com, internet for his enneagram sheet. (B.I.)

CONSTRUCTION OF THE TORUS

"The last diagram I sent you is a scale model of a construction template. You need to double the drawing and transfer it to a piece of cloth. Be sure to add the diagonal lines and the ellipse to the cloth transfer." [(Note: The diagram, 8.5" x 14", to be transferred is given in Appendix D at the back of the book.) Please note the Copyright shown on the drawing. b.i.]

"1. Cut out the rectangle, leaving 1/4 inch seams all around. Make 4 copies on cloth. Sew together in pairs edge to edge, then the two pieces end to end.

"2. Fold in half lengthwise and sew the long seam. (The diagonal lines should connect.) This will give a tube which is 2 feet long.

"3. Turn right side out.

"4. Cut a piece of 4" Duct Tube, (clothes dryer vent at a hardware store), to length of the cloth tube, (2 feet).

"5. Slip the cloth tube you've just sewn over the Duct Tube.

"6. Tape, staple or sew the Duct Tube into a torus shape.

"7. Sew the ends of the cloth tube together such that the diagonal lines match.

"THERE YOU HAVE IT. YOUR OWN TORUS. It's the energy system you've been working on, transformed into the next dimension.

TORUS of TORUS

1. Every triangle in the system is a different torus and is described by its beda number.

1a. There is a finite number of different torus forms, in each Quantum.

1b. one hundred and eight are stable, and eighty-one are unstable.

"2. Every Quantum is also made up of Torus forms as described in the diagrams.

"2.a. There is only one torus system manifest in Quantum 1 . It is stable.

"2b. There are only five torus systems manifest in Quantum 2. All are stable. Plus the Co-Creator System which isn't manifest.

"2c. There are only seven torus systems manifest in Quantum 3. Plus the Co-Creator System which isn't manifest. There is a link in Quantum 3 to the other Myriad.

"2d. There are only six fully Stable torus systems manifest in Quantum 4. Plus the Co-Creator System which isn't Manifest. There are many Quantum links in Quantum 4 to the next Myriad (See The enneaag [sic] sheet which Dr Elkins will send).

"3. Every Myriad is made up of the same torus forms, only the scale changes.

"3a. The linkage on the vertical axis of the GREAT PYRAMID is as described above at the point where 1, 1, 2, 3 Is also 13, 13, 26, 39.

"3b. The linkage on the horizontal axis occurs where 1, 19, 20, 39 is the same as 19, 1, 20, 21.

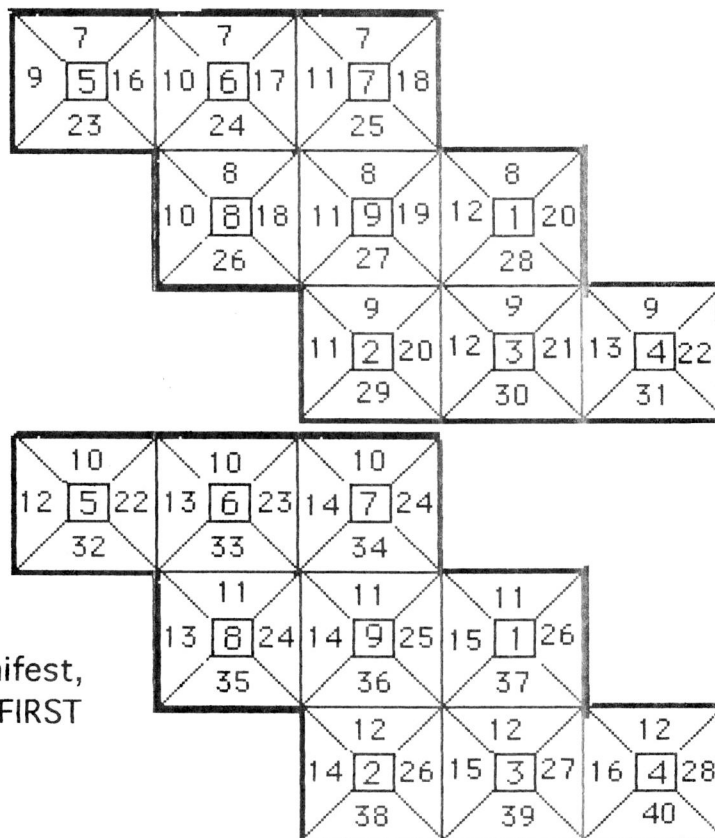
THE DIFFERENT TORUS SHAPES

"Like the ellipse, the torus has different

"These NINE are the resonant nodal points of but a single energy system that is manifest from First Cause and The Co-Creator of Quantum 1. Other Quanta as can be seen, produce more notes that manifest.

"THE TORUS:

"It is precisely a torus shape that ties all the beda STONES into a single Unified System. First, you need to construct your TORUS. This will allow you to understand how time and space are folded, and how each energy systems, those manifest, and those which Co-Create with the FIRST CAUSE, work together as ONE.



shapes. The tube itself isn't usually round, but elliptical. This means that one torus can be almost flat like the one used to solve the Cattle Problem. Or they can conform generally to the one you constructed above. In every case, there is an exact relationship of the volume of the central vortex to the volume of the total disk area of the torus. This vortex volume is always "THE ONE".--the tithe, that part given back to God.

"In engineering terms, a torus is composed of some tube shape and a major diameter. What has been hidden from us is the possibility that a torus of energy can be constructed such that the diameter of the tube is almost as great as the major diameter. This can be visualized by thinking of the Yin Yang symbol. Ball Lightning is a notable example of this form of energy that has been observed.

"From these varied shapes we may derive the relationship of the torus as b, e, d, a, where b, e, d, a, are the first 4 numbers 1-4, and Surface area (square units), 5 in 3D, 3 squared + 4 squared = 5 squared, and Volume, (cubic

units) 6 in 3D, 3 cubed + 4 cubed + 5 cubed = 6 cubed.

"TORUS AND PERCEPTION

"It is the shape and form of the torus which allows a thing to continue existence. The energy from FIRST CAUSE acting in its cascade of CO- CREATION keeps a thing in motion and physically manifest. This is nature's way of pumping the spin energy to keep matter in existence.

"How does this work? In torus terms it is the frequency of the input energy of THREE of the system above acting at a point SIX of the descendent system. Only that amount of THREE energy needed to maintain the harmonic nature of NINE is used. The balance (if any) of the THREE input is given off at its THREE to nurture other descendants in the cascade of things manifest. If you refer to the diagram of complete Table 2, you can see how energy of FIRST CAUSE and of CO-CREATION spreads downward and outward to keep all things manifest in equilibrium.

"Now, and finally, hold the torus you've built in front of you. Notice the two continuous paths of energy -- the smooth sinusoidal flow of the THREE, SIX, and NINE, and the other elliptical path of 1, 4, 2, 8, 5, 7. Can you roll your torus so that it aligns with the parallelogram? OK. **This will put nodal points 2, 8, 5, on top and 7, 1, 4 on the bottom.** In this way we will have a way to actually understand how all perception fails to account for energy in motion. Notice how the 2, 5, 8 moves away from you and how 7, 1, 4 moves towards you. Do you see the very real possibility that a Doppler shift occurs? It is precisely this phenomena that hides TRUTH from us, and denies us access to TRUTH. This same thing is true of THREE, SIX, and NINE. However, THREE and SIX are perceived as NINE. There is a lot of math to be derived here. To put it in short form, every system:- beda, Quantum, and Myriad, is receiving only one frequency and transmitting another. Everything else is perception error due to this resonating Doppler effect.

IMPLICATION FOR NEW ENERGY

"If THREE begets SIX to produce the perceived NINE, and CO-CREATES the 2, 5, 8, 7, 1, 4 system - then if we tune a toroid system to 2, 5, 8 then we should be able to access the THREE and the SIX.

"For any properly tuned toroid system, then a small additional input energy at SIX will create a large additional output energy at THREE. THIS WILL CAUSE EACH NOTE OF 2, 5, 8 TO SING. SOMEONE CALLED THIS SINGING, THE "MUSIC OF THE SPHERES".

"CHAOS

"Are you familiar with CHAOS THEORY? This explains much about the nature of the interface between Myriads. I've much to the interface between Myriads."

"The pattern for the torus contains many keys. In the real world a Thing can only exist where its torus may be represented by a triangle which is (1) prime; (2) connected as part of a stable energy system, (enneagram); and

(3) as such, is connected to the source (central Pipe). In all these case it's the quantum ellipse (described in Volume 2) associated with each of these triangles that is inscribed on the pattern.

"REMEMBER, THE ONLY DEFINITION WE HAVE FOR MATTER IS 'ENERGY IN MOTION'. WE'VE DESCRIBED THIS MOTION WITH THE TORUS, THE ELLIPSE, AND THE TRIANGLE.

"In this way, all natural things must be describable using *Quantum Arithmetic*." Carl Elkins, - Ph.D., torus@ipdi.com, internet

With that, Dr. Carl Elkins concludes his discussion about the Third Dimension and the Torus. That much is sufficient for this volume 3 concerning the torus and the 3rd Dimension of CREATION. Look for more in Volume 4*.

For an email to <torus@ipdi.com, internet> he will send a computer generated 20"x20" table of enneagrams.

EDITOR'S NOTE: *As of this date, 9/18/06, and to my knowledge volume 4 was never created. We do know Iverson did not write it.*

APPENDIX

LEGEND

b	e	d	a
B	E	D	A
C	F	G	L
I	H	J	K

Use these formulae
to complete the
the blocks

b = minor root(given)
 e = variation (given)
 d = mean root = $b+e$
 a = Major root = $e+d$
 B = Square of b
 E = Square of e
 D = Square of d
 A = Square of a
 C = $2de$ = triangle base
 F = ab = triangle height
 G = $D+E$ = Hypotenuse
 L = $bede/6$ = Quantum Area
 I = $|C-F|$ = minor Circle
 H = $C+F$ = Major circle
 J = bd = Perigee
 K = ad = Apogee

Appendix A,

When enough of the table is completed
 Then draw up the triangles using
 C , F , and G of the various blocks

Then draw up the various ellipses
 which derive from the J , K , F , D , G
 values

TABLE 2

APPENDIX B

(Central PIPE)

Rank and file of
Pythagorean
Triangles

	iii
ii	iv

Rt.Triangle
Circles
Equilateral

b	e	d	a
B	E	D	A
C	F	G	L
H	I	J	K
W	F	Y	Z

Roots
Squares
Area
Ellipse
Triangle

	1	2	3	4	5	6
1	1 1 2 3 1 1 4 9 4 3 5 1 7 1 2 6 8 3 5 7	2 1 3 4 4 1 9 16 6 8 10 4 14 2 6 12 15 8 7 13	3 1 4 5 9 1 16 25 8 15 17 10 23 7 12 20 24 15 9 21	4 1 5 6 16 1 25 36 10 24 26 26 34 14 20 30 35 24 11 31	5 1 6 7 25 1 36 49 12 35 37 35 47 23 30 42 48 35 13 43	6 1 7 8 36 1 49 64 14 48 50 56 62 34 42 56 63 48 15 57
2	1 2 3 5 1 4 9 25 12 5 13 5 17 7 3 15 21 5 16 19	2 2 4 8 non- prime	3 2 5 7 9 4 25 49 20 21 29 35 41 1 15 35 45 21 24 39	4 2 6 8 non- prime	5 2 7 9 25 4 49 81 28 45 53 105 73 17 35 63 77 45 32 67	6 2 8 10 non- prime
3	1 3 4 7 1 9 16 49 24 7 25 14 31 17 7 28 40 7 33 37	2 3 5 8 4 9 23 64 30 16 32 40 44 14 10 40 55 16 39 47	3 3 6 8 non- prime	4 3 7 10 16 8 49 100 42 40 57 140 82 2 28 70 91 40 51 78	5 3 8 11 25 9 64 121 48 55 73 220 103 7 40 88 112 55 57 97	6 3 9 12 non- prime

i-Table 2

TABLE 2

i	iii
	iv

	1	2	3	4	5	6
4	1 4 5 9 1 16 25 81 40 9 41 90 49 31 5 45 65 9 56 61	2 4 6 10 non- prime	3 4 7 11 9 16 49 121 56 33 65 154 89 23 21 77 105 33 72 93	4 4 8 12 non- prime	5 4 9 13 25 16 81 144 72 65 97 390 137 7 45 117 153 65 88 133	6 4 10 16 non- prime
5	1 5 6 11 1 25 36 121 60 11 61 164 71 49 6 66 96 11 85 91	2 5 7 12 4 25 49 144 70 24 74 140 94 51 14 84 119 24 95 109	3 5 8 13 9 25 64 169 80 39 65 260 119 41 24 104 144 39 105 105	4 5 9 14 16 25 81 196 90 56 106 420 146 34 36 126 171 56 115 146	5 5 10 15 non- prime	6 5 11 16 36 25 121 256 110 96 160 880 206 14 66 176 231 96 135 121
6	1 6 7 13 1 36 49 169 84 13 85 91 97 73 7 91 133 13 130 127	2 6 8 14 non- prime	3 6 9 15 non- prime	4 6 10 16 non- prime	5 6 11 17 25 36 121 289 132 85 157 935 117 47 55 187 253 85 168 223	6 6 12 18 non- prime
7	1 7 8 15 1 49 64 225 112 15 113 140 127 97 8 120 176 15 161 169	2 7 9 16 4 49 81 256 126 32 130 336 158 94 18 134 197 32 112 193	3 7 10 17 9 49 100 289 140 51 149 595 191 89 30 170 240 51 189 219	4 7 11 18 16 49 121 324 154 72 170 024 226 82 44 198 275 72 203 198	5 7 12 19 25 49 144 361 168 95 193 1330 263 73 60 228 312 95 217 277	6 7 13 20 36 49 169 400 182 120 218 1820 260 216 78 260 351 120 231 309

TABLE 2

	7	8	9	10	11
1	7 1 8 9 49 1 64 81 16 63 65 84 128 47 56 72 80 63 17 73	8 1 9 10 64 1 81 100 18 80 82 120 98 62 72 90 99 80 19 91	9 1 10 11 81 1 100 121 20 99 101 165 119 79 90 110 120 99 21 111	10 1 11 12 100 1 121 144 22 120 122 330 142 98 110 122 133 120 25 133	11 1 12 13 121 1 144 169 24 143 145 286 167 119 132 157 169 143 25 157
2	7 2 9 11 49 4 81 121 36 77 85 231 93 61 63 99 117 77 40 103	8 2 10 12 non- prime	9 2 11 13 81 4 121 169 22 117 125 423 139 95 99 143 165 117 48 147	10 2 12 14 non- prime	11 2 13 15 121 4 169 225 52 165 173 615 217 113 143 195 221 165 56 197
3	7 3 10 13 49 4 100 169 60 91 104 455 151 31 70 130 160 90 64 134	8 3 11 14 64 9 121 196 66 112 130 616 178 46 88 154 187 112 75 163	9 3 12 15 non- prime	10 3 13 16 100 9 169 256 78 160 178 1040 262 58 130 208 247 160 87 217	11 3 14 17 121 9 196 289 84 187 202 1309 154 103 154 238 280 187 93 244

[$X = C/2 = de$]

iii- Table 2 $W = X + K$ $F = F$ $Y = C + E$ [$Z = G + X$]

i	
ii	iv

	7	8	9	10	11
4	7 4 11 15 49 16 121 225 88 105 137 770 193 17 77 165 209 105 114 181	8 4 12 16 non- prime	9 4 13 17 81 16 169 289 104 153 185 1326 257 49 117 221 273 153 120 237	10 4 14 18 non- prime	11 4 15 19 121 16 225 361 120 209 241 2090 329 89 165 285 345 209 136 301
5	7 5 12 17 49 25 144 289 120 119 169 1190 239 1 84 204 264 119 145 229	8 5 13 18 64 25 169 324 130 144 194 1560 274 14 104 234 299 144 155 254	9 5 14 19 81 25 196 361 140 171 231 1995 311 31 126 266 336 171 165 301	10 5 15 20 non- prime	11 5 16 21 121 25 256 441 160 231 281 3080 391 71 176 336 416 231 185 321
6	7 6 13 19 49 36 169 361 156 133 205 1729 289 23 91 247 325 133 192 283	8 6 14 20 non- prime	9 6 15 21 non- prime	10 6 16 22 non- prime	11 6 17 23 121 36 289 441 204 253 325 3927 435 27 187 391 493 253 240 427
7	7 7 14 21 non- prime	8 7 15 22 64 49 225 484 210 176 274 3080 386 34 120 330 435 176 259 379	9 7 16 23 81 49 256 529 224 207 305 3864 431 17 144 368 480 207 273 347	10 7 17 24 100 49 289 576 238 240 338 3570 478 2 170 408 527 240 287 457	11 7 18 25 121 49 324 625 252 275 363 5775 527 23 198 450 576 275 301 489

PIPE

TABLE 2

iv - Table 2 $W = X + K$, $F = F$, $Y = C + E$, $Z = G + X$ ($F + Y = W$)

i	iii
ii	

