

Time: A New Compilation

Attached references:

[Rhythm_Based_Time_and_the_conventional_time.pdf](#)

[Rhythm Based Communication - overview.odt](#)

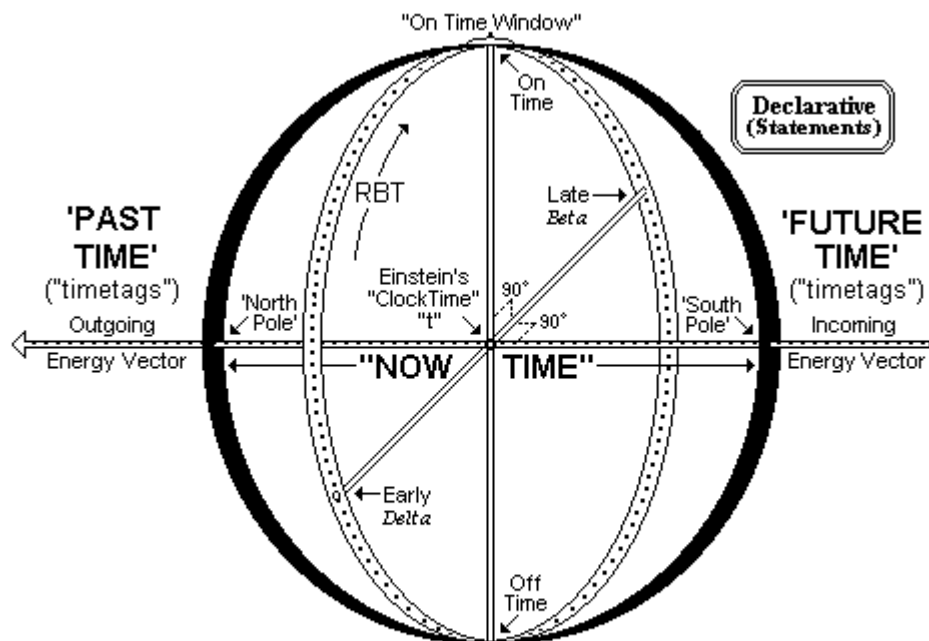
[Dancing with Nature - Peter Beamish.pdf](#)

Postscript # 112 to the "Lanzarote" paper (08/14/98)

Einstein defined time as "The reading on a clock." But he also claimed, regarding time, that there were missing elements of reality. "Supersymmetry" of new Event-Space Logic (where each of a set of variables can be rotated into one of the same set), suggests that there are exactly ten variables of which Einstein's "Clock Time" (t) would appear the central one. Three other variables, well known to physics, are the orthogonal "spacial dimensions," represented in the following diagram by Cartesian axes. The remaining six would appear to be the newly discovered "Rhythm Based Time" perception windows.

All ten variables are shown on the following diagram as:

1. The "equatorial windows" - #1: "On Time," #2: "Late," #3: "Off Time," and #4: "Early,"
2. the "polar windows" - #5: "North," and #6: "South," (whereby energy enters into an organism's "Event-Space Sphere"),
3. the three orthogonal "spacial dimensions," (axes) as variables - #7, #8 and #9, and finally,
4. variable - #10: classical, scalar, "Clock Time" (t), WHICH ALWAYS ROTATES INTO ITSELF AND NOT INTO SPACE



Event-Space Symmetry and "Rhythm Based Time" (RBT)

"NOW TIME" is related to the diameter of such an "EVENT-SPACE SPHERE." To convert the spacial diameter into a measure of "Now Time" (for example, seconds or microseconds), divide by the average velocity of the energy which creates the received sensation in any organism or machine, located at the center of the sphere (see also postscript #109, item #2).

'FUTURE TIME', lying outside of one's "Event-Space Sphere," is comprised of mental, inscribed or machine made labels, which are invented, and which we have called "timetags."

'PAST TIME' is similarly comprised of mental, inscribed or machine made "timetags," which may be real. BUT THESE LABELS, REAL OR INVENTED, ARE NOT TIME*. Perceived, and thus "real" time lies on or within one's "Event-Space Sphere," and includes only the 7 variables of time as given above. And thus is derived the important concept that: ALL TIME* IS "NOW TIME."

X-Y plane moves into the future at the same rate that T progresses.

T represents linear time.

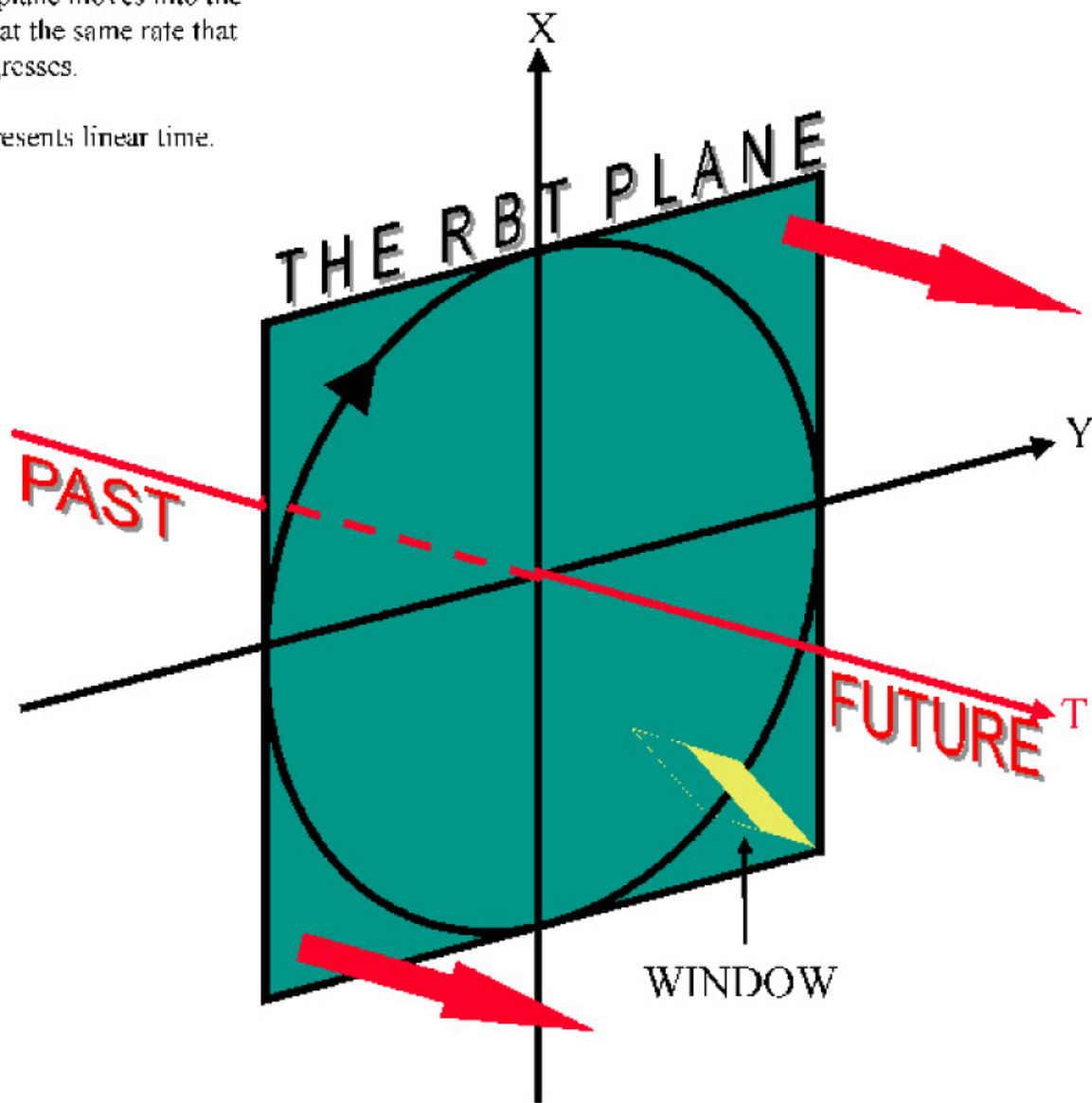
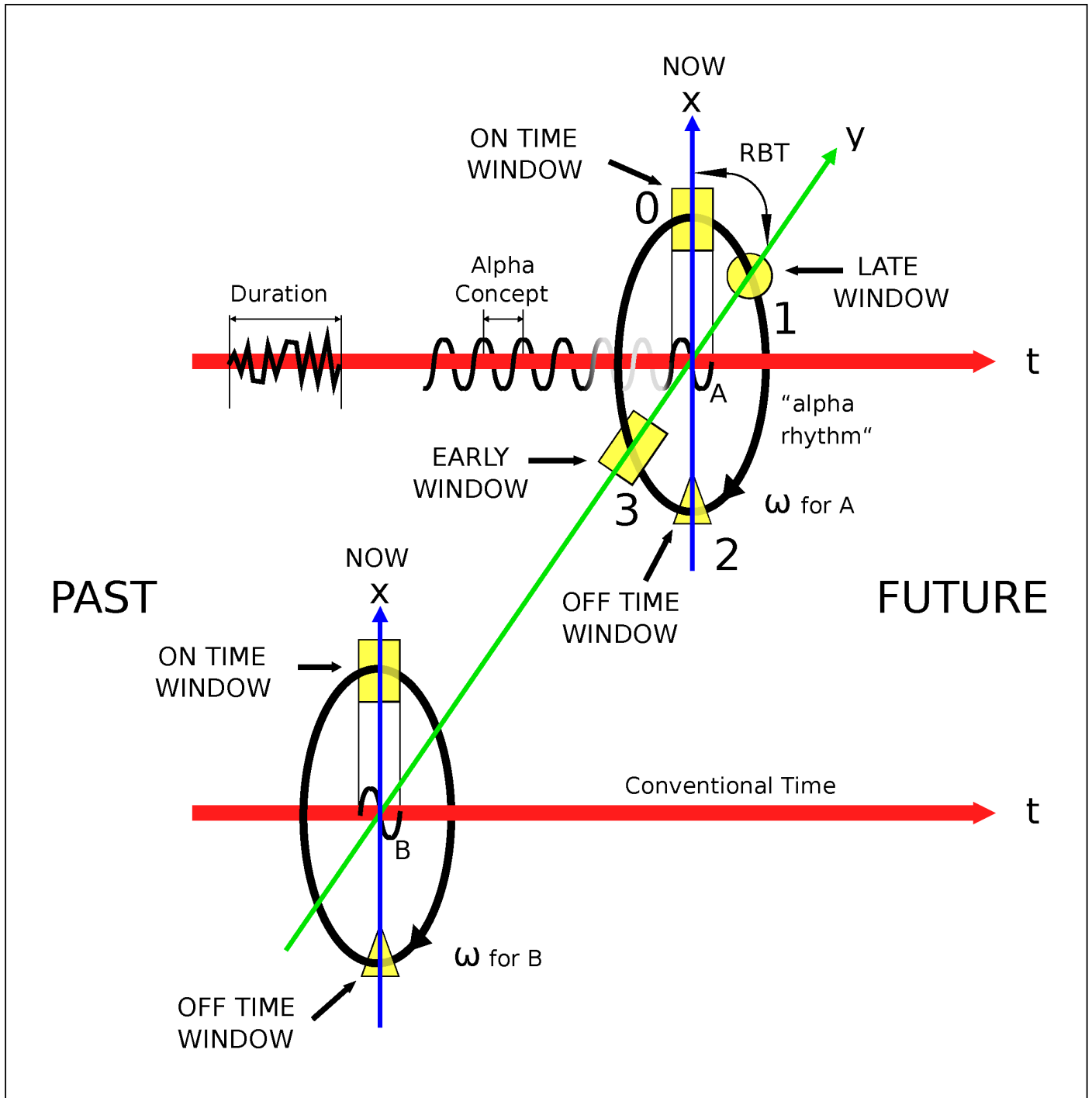


Diagram 2



A BRIEF HISTORY OF RHYTHM BASED COMMUNICATION

1980 - 1985: Soviet scientists verbally expressed their curiosity as to how complex animals could survive in our biosphere, with so few signals.

1980 - 1990: Cetologists especially Dr. Katharine Payne, expressed their curiosity as to a meaning for Megaptera songs, involving so few signals.

1985: Soviet scientists at the Limnological Laboratories in Listvianka, were encouraged to pursue communication curiosities by Peter Beamish,.

1985 - 1990: Numerous Soviet scientists pondered a major paradigm shift.

1990: Soviet, Canadian, & U.S. scientists realized that there must exist alternate communications in Nature based on an alternate time-concept.

1992: A new form of time was simultaneously suggested, independently in Japan, Russia, and Canada, eliminating concepts of past & future.

July 1993: Bidirectional Time, named Rhythm Based Time or RBT, was demonstrated to Canadian (NL) scientists by Megaptera (humpback whales).

August 2002: Dr. Hitoshi Kitada and family visited the Canadian Cetacean Contact Laboratories in Trinity, NL & explained details of Local Time.

Rhythm Based Time has been name-changed, in publications worldwide, to: KitadaTime, or KT, to honour Dr. Kitada's mathematical discoveries.

The use of closed words and upper case letters, as for example: OnTime, LateTime, OffTime & EarlyTime, differentiates KT from conventional time.

NAMING MAJOR CONCEPTS OF RHYTHM BASED COMMUNICATION THEORY

There exist < TWO TEMPORAL TYPES > designated: time (t), and "Time (T)."

Minds CAN ADD "Conventional time (t)" plus "Rhythmic Time (T, or 'RT')."

Minds CANNOT MULTIPLY "Conventional time (t)" by "Rhythmic Time ('RT')!"

All REAL time (t) and all REAL Time (T) = Now TIME (TIME = t+T).

One's past, and one's future consist of Temporal Scalar Labels (tags).

All Conscious Minds operate by using: Now TIME Temporal Scalar Labels.

All Conscious Minds operate by using: Mental Vector Processes, (MVPs).

MVPs are combinations of Mass/Energy Vectors & Scalar Labels (tags).

MVPs are formed at Mind's Edges & end at Mental Thought Processes.

Mind's Outer Edge borders Objective Reality with Subjective Reality.

Mind's Inner Edge borders one's Subjective Reality, with one's Memory.

All Conscious Minds Can Be Dynamic BOTH in Volume, and in Orientation.

All TIME involves A Mental Thought Process (MTP) Reading OF A Clock.

Without an object's Mental Thought Process (MTP) TIME DOESN'T EXIST!

MTPs can ANALYZE, BUT NOT GO, backwards, in Conventional MVP time.

Conventional time (t) = Curvi-linear Displacement Divided by Velocity.

Rhythmic Time (RT) = Perception Of Lateness RELATIVE To An OnTimeness.

Rhythmic Time (RT) is A Foundation Of All, Living Organism's Emotions.

Rhythm Based Communication ('RBC') is encoded in Rhythmic Time (RT).

Conventional time t has Synchronization;" RT has SynchronizaTion.

Conventional time t has Information; RT DIFFERS, as InformaTion.

Mass, Energy, Information, & InformaTion comprise All Known Phenomena.

SEVEN SYSTEM STEPS (RECIPE) TO DISCOVER RHYTHM BASED COMMUNICATION

1. Animal &/or Organism Contact,
 2. Synchronization By Negotiation, Ensuring Mutual Low Stress (This is the 1st Communications Passkey.),
 3. Message Mimicry, using a Suspected Universal Greeting (This is a 2nd Communications Passkey.),
 4. Develop Vocabularies of Declarative Concepts by Pavlovian Conditional Responses,
 5. Reverse KitadaTime direction to produce equivalent Interrogative Concepts,
 6. Receive, & Transmit Responses as Affirmative or Negative; Altruism => <No Deceit Required>,
 7. Add passkeys whenever necessary for additional encryption.
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Rhythm Based Communication - Communication With The Great Whales

A major question, developed worldwide during the end of the past century was: How can animals, especially cetaceans, live such seemingly complex lives, using so few signals, signs, or symbols? Was there, in actuality, another, perhaps independent communication system within Nature, that we hadn't noticed mainly because of our own principal human communications?

Such an independent communication system was demonstrated by two humpback whales under investigation by Ceta Research in Trinity, Newfoundland. It has since been found in other animals but only under low stress conditions. Under stress, organisms tend to revert to a dominant use of signals, and to Darwinian struggles for survival. But by discovering an organism with markedly reduced needs, one may usually find Rhythm Based Communication (RBC).

But How does it work?

In order to have this new type of communication, biological rhythms must be shared between two organisms so that synchronization occurs. After synchronization, Rhythm Based Communication is made possible by an organisms perception of lateness relative to on timeness. That is, the organisms, through synchronization, arrive at a common rhythm, and can then, within this synchronized rhythm, transmit and receive messages using combinations of ON-TIME, LATE, OFF-TIME and EARLY messages. Such information flow is Rhythm Based Communication (RBC).

Imagine two parallel arrows of conventional time, each associated with one of two communicating organisms, A and B. Now picture two turning wheels with their centres on the arrows of time, with different speeds of rotation (alpha rhythms).

To arrive at synchronization, organism A makes a signal in any time window of a single rotation, but only when the window reaches the vertical or NOW-axis.

Organism A then repeats this action on the next one or more complete cycles of its wheel, creating a pulsating rhythm always at the same position on its rotation (alpha concept).

The alpha concept can be confirmed by organism B, if it sends a signal which also occurs in a synchronous time window centred on the NOW-axis of any of its subsequent rotations.

This sending of a synchronous signal defines the concept of On Timeness (or zero lateness).

Now that the organisms are synchronized, they can transmit and receive messages using combinations of ON-TIME, LATE, OFF-TIME and EARLY messages.

If for a humpback whale we use 60 sec as the alpha rhythm then:

On Time (a) would be from 58 to 02 sec, centred at 12 o'clock, on a clock face.

Late (b) would then be 13-17 sec, centred at 3 o'clock.

Off Time (c) would be 28-32 sec, centred at 6 o'clock,

Early (d) would be 43-47 sec centred at 9 o'clock.

Experimentation by Ceta Research has shown that following messages now appear to be identical for some marine mammals, terrestrial mammals and seabirds.

1. Synchronization: Establishing the On Time concept of a demonstrated rhythm.
2. A greeting or passkey: Saying hello is done using an Off Time - Off Time - On Time message
3. A reciprocal greeting: Rhythmic mimicry via a return of the hello message is a sign of lowering biological stress and readiness to communicate.
4. A reciprocal overlapping greeting: This happens when #3 overlaps the timing of #2; occurring most often after repeated reciprocal greetings between the same two organisms.
5. The declarative (i.e. a simple noun): Facts are stated as combinations of Late or Early, Off Time or On Time. An example from Ceta Research experiments would be Late - On Time - Late - Early to represent A Location.
6. The interrogative: Questions are stated as rhythmic, time-symmetric, signals, mirror images of the declarative; an example would be Early - On Time - Early - Late to represent Location? or Are you going to Location? This is a reversal of the circular direction of RBT.
7. The affirmative (Yes): A double signal On Time.
8. The negative (No): A double signal Off Time.
9. A farewell: A rhythmic, opposite phase message, to the greeting of #2 above. The rhythmic coding is On Time - On Time - Off Time This is commonly mimicked by the second organism during departure.
10. Time Compression: A double signal in a single rotation window thereby shortening a message by one RBT revolution an example would be a greeting with a double signal Off Time followed by an On Time signal. Time compression apparently corresponds to the emotion of joy and is invariably followed by a breach for some cetaceans.

Experimentation by Ceta Research on human-animal RBC rhythms show that alpha rhythms differ by species and situation, ranging from 10 sec for young fox kits to 120 sec for fin whales.

Ceta Research believe that RBC could work for all animals (and in fact for all life). Should this be the case, then a universal greeting is feasible. A group of living organisms should be able to send and receive messages, using RBT, as if they were physically together, independent of spatial separation. Also larger vocabularies could be expected and body language should play an extensive role in communication.

It is not only important WHAT the organism does, but perhaps even more important WHEN the organism does something.

DEFINING 24 MAJOR CONCEPTS OF RHYTHM BASED COMMUNICATION (RBC) THEORY

Incorporating an independent and alternate genre of TIME
Plus, Objective vs. Subjective Reality
and, Embracing A New Mind Concept.

Note: Concept numbers 1, 4, 14 & 15 are novel 21st century BIOphysics.
Concept #18 seems important for 21st century Philosophical Psychology.
Concept numbers 23, and 24 introduce a novel interpretation of Nature.
SBC and RBC are Signal and Rhythm Based Communications respectively.

1. There exist <TWO TEMPORAL TYPES> designated: time (t) and Time (T).

As such appears to be an immense paradigm shift from historical physics, we need the semantics of an upper case 'T' for the novel Rhythmic Time, T, as well as closed words of: onTime, lateTime, offTime & earlyTime. Included also: duraTion, communicaTion, synchronizaTion & informaTion. Synonyms of 'T' are: Rhythm Based Time (RBT), and RhythmicTime (RT).

2. Minds CAN ADD Conventional time (t) + Rhythmic Time (T, or RT).

Both Conventional time (t) and Rhythmic Time (T, or 'RT') are scalar quantities, or scalar labels, which are transported by mass &/or energy, and thus both do NOT flow, but are: transported as mass/energy cargos. Scalar quantities (as colours, shapes) can be added, but NOT multiplied.

3. Minds CANNOT MULTIPLY Conventional time (t) x Rhythmic Time (RT)!

Travel time is Conventional time (t) while one's age is Rhythmic Time ('RT'), measured in the rhythm of the Earth's rotation about the Sun. Thus the Twin's Paradox is NOT a paradox, as both will remain as twins regardless of the velocity with which one twin travels throughout space!

4. All REAL time (t), & all REAL Time (T) = Now TIME (TIME = t + T).

We also need the semantics of an all upper case TIME for adding _REAL_ t & 'T,' as for example in a metaphor of moving in 12 hours from Toronto to Tampa Space, as one actually becomes located at Hong Kong Space!

Now TIME Is An Important, REAL, Mental, Biophysical, Temporal Concept.

All other temporal concepts are real scalar labels, NOT real Now TIME. The concept of future time is NOT REAL TIME and needs new semantics. A tomorrow NEVER comes, because when it does arrive, it becomes a today!

5. One's past & one's future consist of Temporal Scalar Labels (tags).

We thus need new semantics for Conventional time 't' scalar labels which can be timetags, and, for Rhythmic Time T scalar labels, Timetags. One's birthDATE is a past timetag; one's next birthDAY is a Timetag. (Such semantics is derived from pricetags which are also scalar labels.)

6. All conscious minds operate using: Now TIME Temporal Scalar Labels.

We perceive events in time as being present, and those are the only events which we perceive directly. Present is mind Now TIME. Scalar labels enter conscious minds as: cargos on mass/energy vectors.

7. All conscious minds operate using: Mental Vector Processes, (MVPs).

MVPs are THE most important concept of RBC Theory, & presumably then THE Most Valuable Players in the Game Of Life. They consist of mass &/or energy vectors transporting scalar labels (as colour, time, Time & geometry, etc.) from mind's edges to Mental Thought Processes, MTPs.

8. MVPs = combinations of mass/energy vectors, & scalar labels (tags).

Here, and in all of RBC Theory, mass/energy means mass, &/or energy. Imagine a photon cluster reflecting off a clock on the wall! Temporal, colour, & shape scalar labels can be transported as cargos from such a clock to an MTP, and then ANALYZED backwards in 'time t' to the clock. For this short duration of time, the clock is at the edge of one's mind.

9. MVPs form at Mind's Edges, and end at Mental Thought Processes.

Many such MVPs can impinge upon Mental Thoughts, in short durations, as auditory and visual pathways for MVPs can operate simultaneously. If Potential MVPs do not enter into Mental Thought they are noise. Mind is a Dynamic Volume with no inherent mass & no inherent energy.

10. Mind's Outer Edge borders Objective Reality, & Subjective Reality.

Some Objective Reality can be in one's real future (NOT future time) whereas one's Subjective Reality consists of MVP/MTPs in Now TIME. ALL REAL TIME IS NOW TIME (RBC Concept #57 in book ISBN 0968995527). Otherwise, temporal concepts are scalar labels outside of a living mind.

11. Mind's Inner Edge borders one's Subjective Reality, with memory.

Memory contains one's education, knowledge, understanding, and much, but not all, may lie in one's Central Nervous System, CNS. Understanding & knowledge can also be derived from known forms of communication. Such is mainly Signal Based, SBC for humans, and partially Rhythm Based, RBC for those aspects of Nature that are in a relatively LOW STRESS state.

12. All conscious minds can be dynamic, BOTH in volume & in orientation.

Glance at a photograph of the moon, at a range of 1 metre. Now glance at the real moon at ~390,000 kilometres, say within 1 second. Your mind has expanded faster than the velocity of light which is entirely permissible as 'mind' is here defined as simply a volume, with no mass, & no energy.

----- A New Definition of Mind -----

One's Event Space Sphere Or Spheroid, or acronym — Essos — is Subjective Reality and is formed by the creation of both external & internal MVPs which by convention, always enter an Essos from a south pole position. Hence, the concept Essos (pronounced Eee sauce) is extremely dynamic in both orientation and mean radius. Furthermore it is a volume with a non Essos volume within, containing memory, knowledge & understanding. Mind is thus definable as one's Essos, & such mind collapses in volume during day dreaming, meditation and sleep. All of life has an Essos.

13. All TIME is A Mental Thought Process (MTP) Reading OF A Clock.

TIME is NOT a reading ON (AT or IN) a clock. Such is a scalar label of either time t or Time T , which does NOT become Real TIME until it is received by a Mental Thought Process. However, biological clocks can exist inside of a mind and their MVPs can produce temporal sensations.

14. Without an object's Mental Thought Process TIME DOESN'T EXIST!

NO MIND, THUS NO TIME so that objects without mind can have temporal scalar labels but NO TIME. Space appears to exist everywhere; Real TIME exists, only with a mind. It thus seems now correct to say time-in-space instead of spacetime!

This is a major diversion from 20th century physics, into a 21st century BIOphysics! Confirming logic includes:

A) All temporal concepts are SCALAR labels 'transported' by mass/energy VECTORS, whereas, all space is comprised of VECTORS which include the three & only three, Orthogonal Spatial Dimensions (OSDs), such as east, north and up, or x , y and z , and

B) All REAL TIME is a MENTAL, 'Now TIME' perception of either ' t ' (conventional time) as a scalar label, or ' T ' (Rhythm Based Time) also as a scalar label. Thereby, NO MIND, THUS NO TIME, or no REAL t or T . However there can certainly be space without mind, space without life! Thus spacetime becomes a non sequitur which should be time-in-space.

15. MTPs can ANALYZE, NOT GO, backwards, in Conventional MVP time.

One cannot GO backwards in Conventional MVP time t as then one could prevent one's parents from meeting & thus not be born! On the other hand Rhythmic Time T can go clockwise, e.g. Earth (a clock) from south pole say forwards; or, counterclockwise, Earth from north pole say backwards.

16. Conventional time (t) is A Curvi-linear Displacement/A Velocity.

This is the definition of time used in 20th century physics and sciences and it is easily understood at early ages as the faster you go somewhere the sooner you get to your destination! The easiest mathematics, & using alliteration, is $\text{time} = \text{space/speed}$. Such a time is a SCALAR quantity.

17. Rhythmic Time (T) = Perception Of Lateness RELATIVE To OnTimeness.

Such, is a new definition of a second temporal form, which necessarily involves a mental perception and thus a Mental Thought Process, MTP. This Time T is RELATIVE to a Mental Cycling Time, as for a rhythm of 60 sec offTime is 30 sec but for a rhythm of 24 hr offTime is 12 hr.

18. Rhythmic Time (T) is A Foundation Of Living Organism's Emotions.

Identical twins (and others) have synchronized biological rhythms and so when one may contact another, a sender's identity is often known, as the contact is made at a mutually agreeable onTime, cyclic window of Time. Music and dancing may produce such windows allowing emotional contact.

19. Rhythm Based Communication, RBC is encoded in Rhythmic Time (T).

RBC appears to be an advance on "the human understanding of Nature. It has been found in the low stress communications of The Great Whales and other living organisms. RBC requires and produces low biological stress as:

A) it requires Rhythmic SynchronizaTion, and

B) it produces a communication less dependent on WHAT signals & more dependent on WHEN. This WHEN, is the definitive, 20th century discovery of RELATIVE TIME!

20. Conventional time t involves a concept of: Synchronization in t .

Synchronization is happening at the same time. It is a foundation of planned meetings, created schedules and produced finished products. Non-human Nature seems little able to plan, create or produce in the future, and maximizes its Now TIME, leading to lower future anxiety, & stress.

21. Rhythmic Time (T) has the different concept of: SynchronizaTion.

SynchronizaTion is a prerequisite of Rhythm Based Communication, RBC and, it can be a necessary step for all of Nature to lower SBC stress. RBC seems highly encrypted, but there can be both universal concepts + a rhythmic warning of evolutionary stress with lack of rhythmic empathy.

22. Conventional time t encodes the well known concept of information.

Information is in signals, signs & symbols, encoded in mass &/or energy. It is the actualization & essence of: Signal Based Communication, SBC. Humans evolved the ability to plan, create, & produce which required the use of SBC, whereas non-humans evolved to maximize their Now TIME.

23. RT differs in this concept which we suggest calling informaTion.

InformaTion is in Rhythmic Time (T) INDEPENDENT of mass &/or energy. It is the actualization & essence of: Rhythm Based Communication, RBC. It appears as the foundation of Carl Jung's collective unconscious, as well as attributes of some, human, emotional communications and empathy.

24. Mass, energy, information and informaTion = All Known Phenomena.

There exists nothing in our biosphere & world, that consists of things other than these above phenomena! All knowledge to date, has mainly been comprised of mass, energy and information, but The Great Whales et al. have indicated that Rhythm Based InformaTion is a part of our reality.

Hitoshi Kitada on time

Rhythm Based Time and the conventional time

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Abstract: I explain how Riemann surface splits Rhythm Based Time into conventional time.

It is known that the exponential function $e^z = \exp(z)$ of a complex number $z \in \mathbb{C}$ has the form, when we write $z = x + iy$ with $x, y \in \mathbb{R}$,

$$(1) \quad \exp(z) = e^x e^{iy} = e^x (\cos y + i \sin y).$$

Therefore e^z is cyclic or periodic with respect to the imaginary part y of z , and takes the same values on each strip

$$(2) \quad (k-1)(2\pi) < y < k(2\pi) \quad (k = \dots, -2, -1, 0, 1, 2, \dots).$$

$\exp(z)$ maps each strip onto the whole complex plane. These strips can be connected through the positive real axis of e^z to form a Riemann surface of e^z . On this Riemann surface $w = e^z$ is invertible and the inverse function is the logarithm function $z = \ln w$.

The local clock $\exp(-itH)$ is expressed as we have seen before as

$$(3) \quad \exp(-itH) = \int_{-\infty}^{\infty} e^{-it\lambda} dE(\lambda).$$

This means that, on an abstract space $\frac{dE}{d\lambda}(\lambda)\mathbb{H}$ (where \mathbb{H} is the base Hilbert space), the local clock is represented by a periodic function $e^{-it\lambda}$ of t . This periodicity is exactly that of the Rhythm Based Time of Dr. Beamish.

Insofar as we consider the value $e^{-it\lambda}$, it is periodic and takes

Glossary of Terms

Altruism

Having regard for others; To give without reward; To be unselfish.

Bidirectional

Functioning in two opposing spacial directions. Time T is bidirectional.

Biochemistry

The study of the chemical and physiochemical processes of living organisms.

Biophysics

The science of the application of the laws of physics to biological phenomena.

Clock

Any mechanism and/or life system that represents, or is capable of producing cyclic, recurrent, or predictable motion, and measures temporal scalar labels.

Clocking

The act of reading a clock. Either a linear or a cyclical clock.

Closed Words

Neglecting a normal space between words (e.g. OnTime). Used to signify RBT, RT, or T.

Coherent

Logical and consistent and/or having a constant phase relationship.

Communication

The passing of information, involving: a) transmission, b) reception, and c) the altering of subsequent behaviour.

CommunicaTion

As communication, excepting encoded in Rhythm Based Time RBT, RT, or T.

Comprehension

The capability of understanding.

Concept

An idea and/or general notion.

Conscious Mind

See Mind (conscious).

Continuum

Anything seen as having a continuous structure without perceptibly distinct parts.

Conventional

Traditional (in opposition to recent inventions etc.).

Conventional time t , or Ct

Traditional concepts of time as opposed to RBT, RT, or T.

Conventional timetag

Label of Conventional time t , or Ct .

Coordinate

A number that defines position by reference to a fixed figure.

Counting scalar

A scalar quantity for which the magnitude always increases, never decreases.

Cyclic

Revolving in recurrent series of events and/or phenomena.

Dimensions

a) Spacial Dimensions, which define all known geometry, or b) Variables, some of which may be scalar quantities. (OSD, three and only three).

Displacement

Distance in a direction.

Diurnal

A cycle occupying the duraTion of one Earth day.

Duration

A timetag (t) of increased quantity less one of lesser quantity.

DuraTion

A Timetag (T) of increased quantity less one of lesser quantity.

Embody

Give a concrete or discernible form.

Encode

Place into a system of concepts.

Entropy

A measure of disorganization.

Essos

Event Space Sphere Or Spheroid (pronounced 'Eee-sos'); a synonym for Conscious Mind.

Essos Edge

There are two Essos Edges, as follows: a) the spacial boundary between one's Objective Reality, and one's Subjective Reality, and b) the spacial boundary between one's memory, and one's thought systems. These two are called External and Internal Essos Edges.

Event Space Sphere

An abstract sphere useful to describe the dynamic orientation and magnitude of time t , Time T , and space variables, and containing one's Now TIME (can be HIGHLY dynamic).

Extensions

Orthogonal Spacial Dimensions, or OSDs. (OSD, three and only three).

Future

Scalar labels of Conventional time t , or Ct , or Rhythm Based Time RBT, RT, or T , and their associated mass/energies, that have not yet arrived temporally at one's Essos.

Immaterial

Without physical form or substance.

Infinity

The mathematical state of being boundless.

Information-RBC

Information encoded in Rhythm Based Time RBT, RT, or T (or InformaTion).

Information-SBC

Information encoded in sensory modalities, as in signals, signs, and symbols.

InformaTion

Information encoded in Rhythm Based Time RBT, RT, or T .

KitadaTime KT

Rhythm Based Time RBT, RT, or T inside sensory transducers.

Life

Living things and their activity.

Medar

MEemory Detection and Recovery (pronounced 'Maa-dar'). The process of Mental Vectors (MVPs) detecting and transporting memory concepts into conscious mind, into Mental Thought Processes MTPs, into Essos.

Magnitude

Size or extent (independent of spacial direction).

Mass/energy

Either mass or energy, or both.

Mental Thought Process (MTP)

A conscious mind component that receives Mental Vector Processes MVPs and subsequently may cause physical or mental actions related to them.

Mental Vector Process (MVP)

A combination of a mass/energy vector and any number of scalar quantities, formed at one's Essos Edges, and ending at one's Essos Centre.

Metaphor

The application of a description which is imaginatively but not literally applicable.

Mind (conscious)

Mass/energy and information, or informaTion, involved with the architecture of a central nervous system, and within Essos.

Mind (unconscious) and memory

Mass/energy and information, or informaTion, possibly involved with every living cell, and not within Essos.

Modalities

Prescribed methods or techniques of procedure.

Nowness

One's immediate present.

"ow time

Conventional time t, or Ct, associated with events in one's present, and contained within one's Essos.

NowTime

Rhythm Based Time RBT, RT, or T, associated with events in one's present, and contained within one's Essos.

Now TIME or NOW TIME

Both Conventional time t , or Ct , and Rhythm Based Time RBT, RT, or T, associated with events in one's present, and contained within one's Essos.

Objective Reality

Exterior to Essos, plus not consisting of Mental Vector Processes, MVPs and Mental Thought Processes, MTPs.

Omnipotent

Having great power.

Omnipresent

Present everywhere.

Omniscient

Having very extensive knowledge.

OnTimeness

OnTimeness is a cyclical and agreed Time Commencement Point.

Orthogonal

At right angles or 90 degrees.

OSD

Orthogonal Spacial Dimension. (OSD, three and only three).

Paradigm

A mode of viewing the world which underlies scientific theory for a period of history.

Paradigm shift

A fundamental change in approach and/or philosophy.

Past

Scalar labels of TIME and their associated mass/energy that have left one's Essos.

Perception

An interpretation based on one's understanding.

Phenomena

Facts, circumstances or occurrences that appear or are perceived.

Philosophy

Reason and argument in seeking truth and knowledge of reality.

Photon

A discrete quantity of electromagnetic energy (having both electrical and magnetic properties).

Quantum Mechanics

The mathematical form of quantum theory dealing with the interaction of particles.

RBC

Rhythm Based Communication using Information-RBC (or InformaTion).

RBT, RT, or T

Rhythm Based Time RBT, RT, or T, as opposed to Conventional time t, or Ct. A mind's perception of lateness relative to an agreed, cyclical, and synchronized, OnTimeness.

Representations

Statements made to convey opinions.

Rhythm Based Communication (RBC)

Communication encoded in RBT, RT, or T (or CommunicaTion).

Rhythm Based Information

Information encoded in RBT, RT, or T (or InformaTion).

SBC

Signal Based Communication using information-SBC.

Scalar

Having only magnitude and no spacial direction.

Semantic

Relating to meaning in language.

Senses

Bodily facilities for changing energy (transduction) from one's exterior to one's interior.

Sensitivity

The quality of being open to or affected by external stimuli.

Signal Based Communication

Communication encoded in sensory modalities as in signals, signs and symbols.

Signal Based Information

Information encoded in sensory modalities as in signals, signs and symbols.

Space

Vectors, always containing both magnitudes, and spacial directions, relating to: a) north-south, east-west, up-down, b) forward-backward, left-right, up-down, or c) north celestial pole, declination, right ascension east of The First Point of Aries, or any vector combinations thereof (a and c are objective; b is subjective).

Spacial Dimensions

Space vectors, which are most often considered orthogonal, in which case there are three and only three spacial dimensions.

Spacial Directions

Space vectors, which are not necessarily orthogonal.

Spirit

The soul.

Subjective Reality

Within Essos, and consisting of Mental Vector Processes, MVPs and Mental Thought Processes, MTPs.

Symmetric

When certain positions rotate into other positions in the same set.

Synchronization

Happening at the same Conventional time t , or Ct .

SynchronizaTion

Happening at the same Rhythm Based Time RBT, RT, or T.

Tagging

See time, Time, or TIME tagging.

time, time t , or t

Conventional time t , or Ct , linear in the direction of instantaneous mass/energy motion.

Time, Time T, or T

Rhythm Based Time RBT, RT, T. A mind's perception of lateness relative to an agreed, cyclical, and synchronized concept of OnTimeness.

TIME

Conventional time t , or Ct + Rhythm Based Time RBT, RT, or T, within Essos.

<TIME>

All combined Conventional time t , or Ct , Rhythm Based Time RBT, RT or T, TIME ($t + T$), as well as all temporal scalar labels (Time/timetag concepts).

time, Time, or TIME tagging

The association (either physical or mental) of Time/timetags with mass/energy vectors.

timetags (developing)

Varying scalar labels of Conventional time t , or Ct , produced by a working, linear clock.

timetags (fixed)

Labels, either mental, inscribed, machine made, geologic or others, of Conventional time t , or Ct . See also t -labels.

Timetags (developing)

Varying scalar labels of Rhythm Based Time RBT, RT, or T, produced by a working, cyclical clock.

Timetags (fixed)

Labels, either mental, inscribed, machine made, geologic or others, of Rhythm Based Time RBT, RT, T. See also T-labels.

Time/timetags

Timetags and/or timetags.

TIMEtags

Timetags and/or timetags within one's Essos comprising Real TIME.

timetag vector

Conventional timetags on a mass/energy vector.

Timetag vector

Timetags on a mass/energy vector.

Timing

The arithmetic of <TIME> including the art of recording <TIME>.

t -labels

Mental, inscribed, machine made, geologic and other labels of Conventional time t , or Ct . See also timetags.

T-labels

Mental, inscribed and other labels of Rhythm Based Time RBT, RT, T. See also Timetags.

Token

A representation of an abstraction.

True altruism

To give without the expectation of a reward.

Unconscious Mind

See Mind (unconscious).

Valid

Well founded and defensible.

Variable

A quantity able to assume different numerical values.

Vector

A quantity having spacial direction as well as magnitude.

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