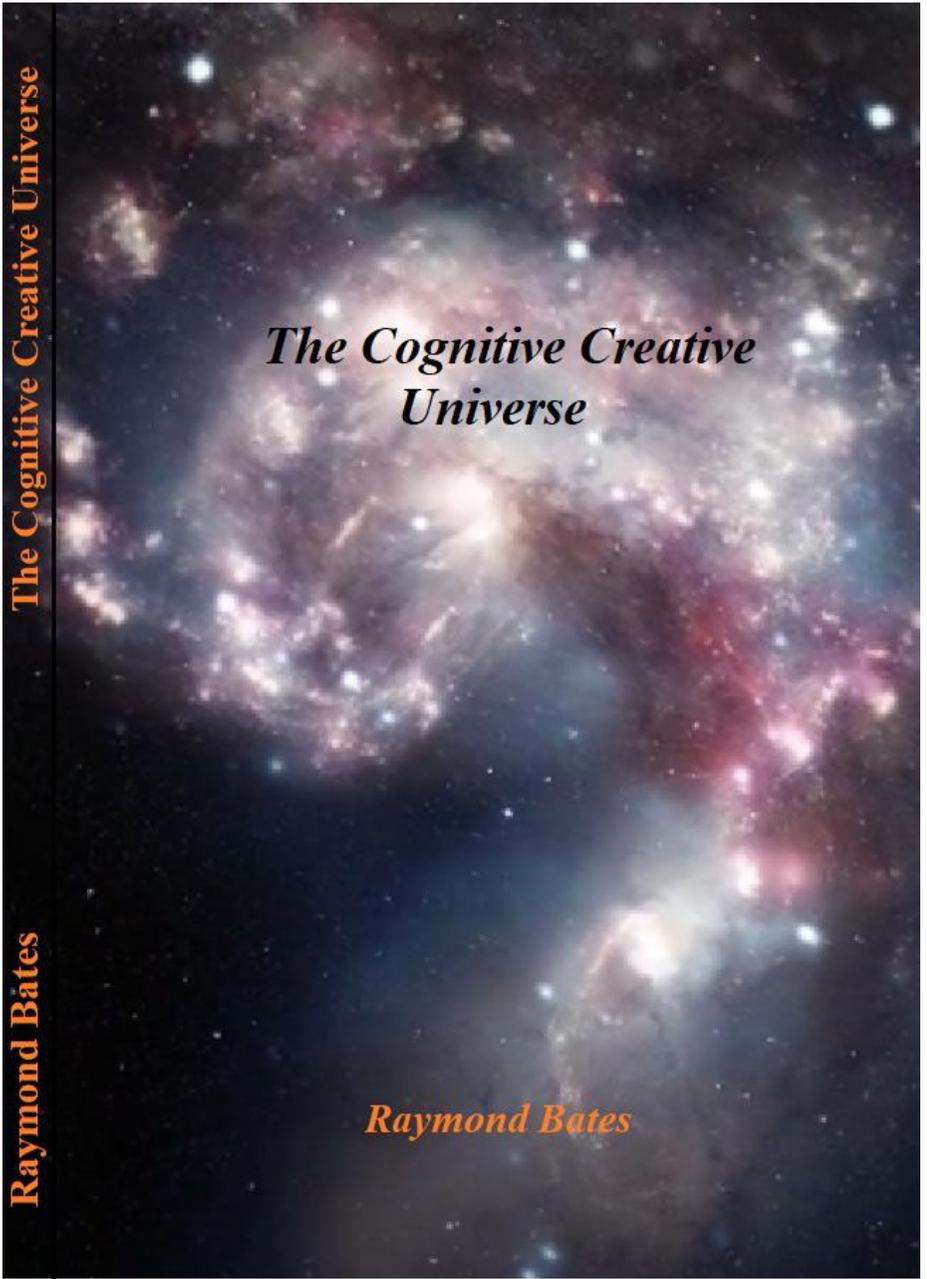


The Cognitive Creative Universe

Raymond Bates

*The Cognitive Creative
Universe*

Raymond Bates



The Cognitive Creative Universe

A study of Microvita Cosmogony

The Cognitive Creative Universe

A study of Microvita Cosmogony

All Rights Reserved © 2020 by Raymond Bates
This Electronic Edition may be re-produced freely.
Please contact the author
for hard or paperback sales.

First Electronic Edition
May 2020
ISBN: 978-0-9796660-5-6

Published by
Raymond Bates
25392 Mohr Dr.
Hayward CA
94545 USA
turiya@gmail.com

Dedicated
To Ba'ba'

Shrii Shrii Ánandamúrti

Whose knowledge truly comes from a place
beyond, all understanding

Ya'drshii bha'vana' yasya siddhir bhavati ta'drshii
"As one thinks, so one becomes."

Table of Contents

Hold Control Click on Page

OVERVIEW	8
<i>PRESUPPOSITIONS</i>	10
<i>INTRODUCTION</i>	11
<i>MIND BODY DUALISM</i>	12
<i>THE ONTOLOGY OF BEING</i>	12
<i>SYMMETRIC AND ASYMMETRY</i>	13
ATTRIBUTES & INFORMATION	15
<i>EMERGENT SENSORIAL ATTRIBUTIONAL INFORMATION</i>	16
<i>THE DISTINGUISHING CHARACTERISTICS OF MATTER</i>	17
<i>Attributes in Matter Cycle</i>	18
<i>WHAT IS INFORMATION?</i>	21
<i>EMPIRICAL KNOWLEDGE IS RELATIVISTIC</i>	21
<i>WHAT IS AN AÑU OF INFORMATION?</i>	23
<i>QUANTUM AÑU</i>	26
<i>CITTÁÑU (MIND ATOM)</i>	26
<i>PARAMÁÑU</i>	27
WHAT IS CONSCIOUSNESS?	28
<i>TWO TYPES OF CONSCIOUSNESS</i>	31
<i>CONSCIOUSNESS CAN BE COLLECTIVE OR UNIT</i>	31
<i>Technical Chart Unit & Collective mind</i>	36
<i>COMPILED LIST OF GENERALITIES OF CONSCIOUSNESS</i>	36
<i>CHANGE IS, CHANGE IN ENERGY AND STRUCTURE</i>	36
<i>SOME IN GENERAL CLASSES OF MENTAL STRUCTURES</i>	37
<i>A FEW BASIC FACTS ABOUT MICROVITA</i>	37
<i>MICROVITA EVOLVES IN STAGES</i>	38
<i>SUMMARY OF MICROVITIC CHANGES</i>	41
<i>ABOUT ENDOPLASM</i>	41
COSMIC FORCES AND ENERGY	43
<i>THIRTY YEARS BEFORE MICROVITA</i>	43
<i>FORCES DESCRIPTION IN ATOM</i>	46
<i>ABOUT NAME CHANGES</i>	47
<i>RENAMING THE FORCES IN ATOM</i>	48
<i>THE STRONG FORCE IN THE ATOM</i>	49
<i>FORCES AND NOT FORCES</i>	50
<i>THE CHANGING NAMES OF FORCES</i>	51
<i>CYCLE OF FORCES INTO MATTER</i>	52
<i>Pictorial Representation of the Forces becoming Matter</i>	53
CHARACTERISTICS OF ENERGY	55

ENERGY	56
<i>Drawing microvitic atom with minor waves</i>	57
PRÁÑÁH – VITAL ENERGY	60
GENERAL CHARACTERISTICS OF ENERGY	60
STATISTICAL CHARACTERISTICS OF ORDINARY ENERGY	62
ENERGY STRUCTURES AND EVOLUTION	63
<i>Evolution of Energy Cycles</i>	64
ENERGY IN MATTER WITH MICROVITA 1989	65
ABOUT MASS	66
RELATING TO THE MASS OF THE ATOM	66
ENERGY WITHIN THE ATOM	68
<i>Intra-atomic Energies in Protium Atom</i>	70
THE MATERIAL WORLD IS ATOMIC	72
ATOM CREATOM POINT	72
<i>Forces Before nucleus construction</i>	73
<i>Forces and Formation of Solid nucleus</i>	74
<i>Schematic Drawing of Formation of Solid Nucleus</i>	74
THE IMPLOSION PROCESS	75
<i>Protium Implosion Drawing</i>	76
REVIEW IMPLOSION THEORY	76
NADIR POINT	78
<i>Nadir Point with 2 Atoms with same spin</i>	81
<i>Yukawa potential force with Central Forces Nomenclature</i>	82
ABOUT CONSCIOUSNESS BEFORE JADASPHOTA	82
<i>Jadasphota schematic</i>	83
JADASPHOTA EXPERIMENT	83
SUMMARY OF FORCES AND ENERGIES IN ATOM	84
MULTI UNIVERSE	85
<i>Drawing Cosmic Creative Multiverse in 2D</i>	86
CONCEPTIVE PREVIEW OF UNIVERSE CONSTRUCTION	88
REVIEW COSMIC EVOLUTION OF THE FORCES AND ENERGIES OF THE UNIVERSE	88
<i>Conceptive-Subjective view of the Universe</i>	88
<i>Ordinary Brahmachakra Cycle of Creation</i>	90
<i>Cosmic evolution Forces & Energies</i>	92
SEQUENTIAL METAMORPHOSIS	93
<i>The Cognitive Creative Material Universe with Microvita</i>	95
MACROCOSMIC HIERARCHY OF MICROVITA AND MATTER	98
THE COSMIC LIFE-CYCLE OF MICROVITA	98
COMBINED WALKTHROUGH OF MICROVITA IN OUR UNIVERSE	99
<i>The Combined Cognitive Creative Universe showing Microvita actions</i>	99
A COGNITIVE CREATIVE SUMMARY	102
REVIEW OF MICROVITIC ATOM WITH ITS FOUR PARTS	102
INTER-ATOMIC AND INTER-ECTOPLASMIC WAVE THEORY (GRAVITY)	104

<i>SUMMARY OF FORCES AND ENERGY</i>	104
<i>PHYSICAL AND MENTAL CELLS</i>	106
<i>Visual comparison of universal sizes</i>	108
<i>INCREASE IN FRICTION</i>	110
<i>GRAVITY IN THE END</i>	111
<i>INTRO TO INTRA-INTER ECTOPLASMIC AFFINITY</i>	114
<i>INTER/INTRA-ECTOPLASMIC EXPANSION</i>	115
MASS, THAT IS THE MATTER	117
<i>SOME IDEAS FOR PROOF</i>	121
<i>SUMMARY</i>	122
<i>SOME QUESTIONS ANSWERED</i>	123
<i>MASTER SĀMSKRĀ GLOSSARY</i>	129
<i>OTHER BOOKS AVAILABLE BY SAME AUTHOR:</i>	142
<i>ABOUT THE AUTHOR</i>	142

First Electronic Edition

Raymond Bates,
 Baguio, City of the Pines, Philippines
 Email turiya@gmail.com, May 2020

Note: ALL QUOTES are from: *Ānandamūrti, Shrii Shrii, Ananda Marga Publications*, 527, VIP Nagar, Tiljala, Calcutta, India. Electronic Edition 7.0, [] are additions by this author. UNLESS otherwise noted. The format: *This_and_That.html* is the html file within EE 7.0 that the quote is taken. Newer versions of Electronic Editions are available from:

<http://innersong.com/products/dharshan/ElectronicEdition.htm>

Conversion errors - Using the included MS Word to PDF formatter some Sanskrit words employing the ucis and nicis for example jadasphoḥa converts to jāiasphoḥa.

Further note: This book is intended for the advanced student of Shrii Shrii Ānandamūrti's microvita philosophy. It is expected that the basic concepts behind Saincara, Pratisaincara, Brahmacakra and the four parts of the atom have been understood by the student from the previous books.

Overview

Let me state from the beginning that this book is not a discussion of God like abilities of intelligent design nor is it a theological dissertation of Hindu or Vedic descriptions of creation. It is a complete and reasonable scientific description of how universe came into being, how it maintains its existence as an adapting universe. This includes some ancient standard concepts and some proprietary ideas of Shrii Shrii Ánandamúrti on how mind is created and some microvita theory, all described in modern scientific terms. This book is presented in format for the informed public with specific reference to the ideas from original material noted as footnotes.

In any book of this type, we must look at what was done before us. The overall concept of a Cognitive Creation is not new. The theory of creating matter with consciousness in fact has been around for thousands of years, but the system of producing mind from matter was not understood. Shrii Shrii Ánandamúrti brought many new concepts over His about 35 years of dissertations. In His early writings and talks He explained the standard Vedic/Sanskrit understanding of the creative concepts of the overall universe to the mostly Indian listeners. He diverted somewhat from the standard to put forth completely new proprietary material¹ of how not only matter was created from Cosmic Mind and how mind was present in all things, but how sentient mind was created and evolved from this very matter. This innovative idea had not been explained before.

Later He brought in a completely new subject of microvita and how it was prominent in the creation and maintenance of the universe and the overall theory of life. Shrii Shrii Ánandamúrti explained in complete proprietary detail from the 1950's that consciousness was in all matter (atoms), in mind as consciousness particles and that consciousness had a natural evolutionary progress from matter to biological living things. He spent nearly the next thirty years explaining this bio-psychological process and theory.

For about the last three years from 1986 Shrii Shrii Ánandamúrti laid out the answers to the other missing parts of the creation of the universe, life creation and cosmic maintenance in an all comprehensive microvita theory of life creation and universe maintenance. He explained about the different types, characteristics and workings of microvita. He gave many personal demonstrations about microvita and

¹ Matter is the creation of Macrocosmic Mind. Unit mind is the creation of matter."
Triangle_of_Forces_and_the_Supreme_Entity.html 1967

gave recommendations for scientific research. It was like the first 30 years of dissertations were just a preliminary to how the Creative Cognitive Universe works around us. He explained how microvita acted like a regulating and controlling element within our biological world and then in the very few last dissertations (some closed door) He explained the role of microvita in the overall creation and maintenance of our universe.

In the early 1950's the first Western books on atomic energy were just being written and yet He was introducing atomic energy theory, atom construction and supernova theory (through discussing jadasphota) that includes gravity waves (antigravity waves); that we today are just recognizing in 2020. Astrophysicists have recently discovered what they call 'gravity waves' are moving through sound like distortions from star background emissions emitted after supernova explosions. His term was microcosmic centrifugal force² being the result of supernova 1A (jadasphota) explosions.

His concepts did not include any mention of Big Bang theory, multiverse or other materialistic explanations of our universe creation.³ His ideas were of our universe as an adaptive universe that was constantly recycling and had continual creation.

Needless to say, normal Eastern academic understandings were overwhelmed with all these new ideas. So many wide areas diverted from the standard concepts left the scholars flummoxed.

I would be remiss if I did not point out how and why He viewed the universe differently from any of us. He was not an astrophysicist but yet He could describe the inner working of the entire universe down to the smallest detail. He was not a nuclear physicist but yet he knew the inner quantum mechanics of an atom.

As each of us, He understood the attractive force of gravity but although He gave thousands of dissertations and talks, He never once mentioned the word gravity in the physics meaning. Physicists have been trying to unity the four (at this writing) forces (Quantum Chromodynamics, Quantum Electrodynamics, Electroweak Theory and Quantum Gravity) into a Grand Theory of Everything that in turn could explain those Macro-dynamic forces in our universe.

² avidyá (positive repulsive force in supernova nuclei explosions). Bates, Raymond, The Microvitic Atom, Microvita Sub-structures in the Atom, July 2016. P 95

³ This transformation is a necessity, because no creation can start from a stationary point. In order to commence the process of creation shambú needs to imbibe tremendous momentum. *Cognitive_Faculty_and_the_Supreme_Desideratum.html. 1967*

Shrii Shrii Ánandamúrti could enter into and understand those forces intimately and directly. He had the ability called Direct Spiritual Knowledge or Aparokśa bodha in Sanskrit. He presented His own proprietary theory of creation of matter and consciousness along with His unifying matching proprietary theory of inter-atomic (ectoplasmic) gravity. After nearly 70 years physicists still deny the simplicity of His understanding.

Shrii Shrii Ánandamúrti's normal method of teaching was to let the student fill in the links/blanks through their own intuitional abilities. The very purpose of meditation is to increase the student's intuitional abilities.

We could construct a whole list of what consciousness is and what it is not, even though it may be defined by all those things; it is all of those but more important, it is more than those. It is more than the sum of its parts.

As an evolutionary product it becomes every one of the things we could use to describe it. If we can take the old analogy of the blind man and the elephant, we can analyze each of its salient parts and not see the overall greatness of the picture. Consciousness is the basis for a top-down synthesis of evolved creation. It is an evolutionary machine that creates us and this universe.

Small note: This book is not written in the style of the previous seven books because heavily referencing leads to very ponderous reading. Almost all statements have been very labouredly footnoted and referenced in the previous books, some books with hundreds of references to Shrii Shrii Ánandamúrti's dissertations. Here I used the outline method to introduce the overall creative consciousness system of the universe using drawing and leaving the detailed descriptions and referencing to previous works.

Presuppositions

To use the title 'Creative Cognitive Universe' allows certain presuppositions. One is that the universe has consciousness within no matter how diverse or inert and two that the universe creates. Those in turn allow the corollaries that that creation is for a purpose and that in turn supposes that it is not nihilistic towards creating a dead universe. This is mentioned because a nihilistic or death structured universe has no purpose except to die. Therefore when it is stated the universe has a purpose it presupposes that that purpose is to create a living universe

and for any object to be living, it must be maintained. To maintain a universe it must adapt to that very construction. Within that framework, a Cosmic Consciousness is a necessary input to this universe,

Introduction

In any work of this type (and there are thousands of them around) one must be very concise about the definitions and the nature of the discussion. So I'll first tell you about what this is not about. This is not a rake over the coals discussion about reality and the overworked discussion about matter and mind classical dichotomy. It is about matter and mind but not in the normal ways that most people think about them.

This book is about consciousness, how and why it is in everything around us. It is more than that; it's about how we, matter and our universe fit into a grand picture that others have not presented before. Some parts are old but most parts are new and presented by a mind that does not understand the world in terms that we perceive. Always in the Western concepts of mind and matter the question is one of "How can you marry the spirit of what you cannot see with the form of the material world that you can see?" Those very concepts become immaterial when you understand how and what matter is, and how not only matter comes from mind (as in many philosophies) but how *mind comes from matter*.

Shrii Shrii Ānandamūrti spent more than 30 years in detailed dissertations explaining the operation of the universe, forces, atoms and the actual mental makeup and construction of our very beings. He even gave a new proprietary theory involving how matter around us (as atoms) actually became the consciousness within every living thing in our universe. It was not until the last three years of His walks among us, that He decided to show us not only how our cognitive universe is constructed but how it maintains itself, but how our universe recycles and expands and how the universe and all life can adapt to evolve. All this not in just a philosophical way, He gave hundreds of practical demonstrations and guidelines as to how modern science can search for these answers themselves.

Answers like this are not for the weak hearted or those fossilized in their own ridged requirements of life. He gave very specific guidelines along these very thoughts.⁴ This book is not for those with

⁴ Hence, experienced scientists on this path [Spiritual] cannot even think of destroying the hard earned emerald glow of the experience of other [material] scientists; rather they further heighten

strong religious dogmatic considerations or scientific minded persons with classical leanings. It requires a new understanding of consciousness, life and the psychophysical world around you.

Mind body Dualism

For many thousands of years Eastern religions and philosophers have been propounding long discovered theories of physics and consciousness. They proposed that there is an irreconcilable difference between spirit and matter. They proposed that these two opposing schools of thought could never come together. Briefly, there is no dualism between church oriented spiritualism and classical mind oriented materialists. The only difference is in the benefits that each gain from maintaining their own viewpoint. The age of materialism is changing. Literally millions of scientists are producing endless technical papers desperately trying to marry the two. Finally after many hundreds of years the western materialists have realized that they must understand “What is consciousness?” and that consciousness is ubiquitous and in everything. This understanding has not been coming overnight. It is only recently scientists have proved to themselves that non-local action at a distance is ubiquitous. But that is only the probe in the cattle’s back, to get it moving.

The ontology of being

Just to look at consciousness formed by a limited viewpoint will not solve the ontological understanding of the universe. To describe the how and why the universe is created as a true statement requires an understanding of the function and elements of creation including how it applies to us. In one way consciousness is simply an awareness of mind. That sounds like an absurdly true and simple statement. We say “I am conscious, I am alive therefore I exist”. To the inquisitive that does not answer the questions how and why? Just to look at consciousness for a limited viewpoint will not solve the ontological understanding of the universe. To describe the how and why the universe is created as a true statement, requires an understanding of the function and elements of creation including how it applies to us.

To look closely at how the universe functions we must eliminate any previous opinions of what the universe consists of and how it is made. We must put aside our preconceived opinions of “What is God” or questions like “What is Cosmic Consciousness”. They will only lead to false conclusions like; ‘consciousness is’ or ‘is the cause of life’.⁵ Consciousness is not life but only allows an awareness of life. We said above that “Consciousness is simply an awareness of mind.” and that mind allows you to understand that you exist and have life. Can we then take the inference that therefore mind gives us life? No, mind is not alive; it is only one of the elements that give us awareness of our being alive. Neither consciousness nor mind gives us life. They only give us an awareness of being alive and animate. To be conscious is to be aware of being; to be aware of the quality and quantity of consciousness within the being.

Symmetric and asymmetry

Physicists use the word symmetry (physics a state of invariance shown by some phenomena when changes of orientation, charge, or parity are made) to describe the relationship between particles as being symmetric in a non-local sense. This is because they describe the world/universe they observe around them. What they describe is entirely within our relative universe. A universe completely within the relativities of Time, Place (space) and Person.

A cognitive and creative universe consists of other than what we see. It has an asymmetric portion also. A “In the beginning” or a one way function that allows our universe to come into existence but not as a materialistic Big Bang.

To understand this asymmetric portion we must consider what, how and why this portion exists. For thousands of years some philosophies/religions have provided logical methods and means for the necessity of this asymmetric portion of our universe to exist. Materialists on the other hand have directed their understanding of the total universe to a “what you can see and can kick” viewpoint. Through

⁵ The creation of life is discussed fully in, Bates, Raymond, *Microcosmology. A New Paradigm of Relativity*, July 2017 *CHAPTER ONE Forces & Energies of the Macrocosm*

Shrii Shrii Ánandamúrti's vision we can see how these two viewpoints can coexist.

Shrii Shrii Ánandamúrti revitalizes the ancient understandings of how the unmanifested (non-material) area called Saincara as it becomes the manifested area and how and where the unit mind develops differently within our universe in a area He calls Pratisaincara. But that alone will not bring us to an understanding of the complete Cognitive Creative Universe unless we understand what the universe consists of (in semi-material terms) and how it maintains itself in an adapting universe way. By adapting we simply mean changing in accordance with the environmental necessities and the mental requirements of spiritual/mental evolution. For we surely exist in a physical/material changing universe.

Allow me to try and describe a conceptive subjective view of the universe. Some things we can conceptualize from idea, but in the idea of the entire universe, we can only think of it subjectively. We cannot objectivize that which we cannot sense. It is only through our senses that we sense (as in visualize) and only from those objects that we have conceptualized the form before. In order to conceptualize something we have not sensed before we have to try and compare previous concepts intuitively.

Attributes & Information

In the physical world, whatever the microcosm creates with the help of its physical structures is nothing but a chemical or physical transformation of the five fundamental factors created **as actualities** by the Macrocosm in the Saiñcara process.

Mind_Pranendriya_and_Vrtti.html 1959

Where modern physical science and metaphysical science differ is in their basic definition of attributes. Attributes to the physical scientist is a result of their physical studies, using their physical senses or more precisely, their physical interpretation of theirs (or others) sensorial perceptions.

Metaphysical scientists realize that physical sensing of the phenomenal world is and can be interpreted in limitless ways. Our senses can never put our consciousness, studying the objective world, within our mind in direct contact with the object. Attributes are only the perceptions limited to what we receive through our senses, like red or white, hot or cold, big or small and even time.

Maybe the first rule of attributes should be “Nothing is the way you think it is?” Why? Because we never really sense the attributes of matter. We only can sense (or extensions thereof) the secondary or emergent attributional expressions of our world. This may not seem logical at first until one considers what matter really consists of and what are the vibrations we receive and where they come from. Shrii Shrii Ánandamúrti says it like this:

When the original inferences come in contact with the plane of the universe, they are either reflected or refracted. The unit cannot have the original inference.

Microvita_and_Cosmology.html 1989

From this we arrive at the conclusion that mind never enjoys the original object, it enjoys only the reflected shadows of the original object.

Spiritual_Practice_and_the_Cosmic_Science.html 1955

The key to understanding all of the creation around us is not in simply observing the reflected inferences of what we perceive as matter around us. When discussing attributes one must be very careful in seeing that the objects and parts the attributes are defined precisely. Specifically we are discussing the basic object of our universe atoms and what are the difference in inherent basic characteristics and secondary or emergent attributional expressions of our world.

These are words generally used describing attributes:

- properties - a quality or trait belonging and especially peculiar to an individual or thing b : an effect that an object has on another object or on the senses
- attributes - an inherent characteristic; also : an accidental quality
- quality - a distinguishing attribute (guñas)
- characteristic - a distinguishing trait, quality, or property
- propensity - an often intense natural inclination or preference
- secondary waveforms contain emergent attributional information as identifying attributes

Emergent sensorial attributional information

Attributional expressions are emergent attributional information received from secondary waveforms reflecting/refracting off the original object or waveform. These must be treated differently from the inherent distinguishing characteristic of the object because we only know of the emergent attributional information through our senses or extensions thereof. Emergent attributional information from any object can be observed differently depending on the observer, location and organs used in observing the secondary waveforms. An example would be you seeing yellow color from a flower and a bee observing it through ultra-violet color.

Most important in our discussion of attributes is the characteristics of the constituents describing atoms. They are the material construction blocks of our universe and our physical being, what we sense are only a reflected shadow of the actual thing.

The items that an actual wave consists of, can be quite easily stated. It is *how* they are expressed to our sense that is difficult. Fundamental characteristic verses secondary reflected attributes could be better defined as ‘emerging attributable expressions’ or the expression of the tanmatric waves to the senses.

If we look at say a basic atom as to the identifying attributes that might say be encoded into what we believe is the smallest bit we find that would be certain physical characteristics like spin, charge and mass. But then if we categorize all these physical characteristics; do we really have the so-called information that identifies the atom. Can all these bits of physical evidence be put together to distinguish or even make an atom? Does the number of spins not an atom make?

If we categorize all the physical attributional peculiarities of an atom do we really have the so-called information that identifies the atom? If we look at say a basic atom as to the identifying attributes that might say be encoded into what we believe is the smallest bit we find that would be certain physical characteristics like spin, frequency, charge and mass. But can all these bits of physical evidence be put together to distinguish the makings an atom?

There are certain emerging attributes of matter that can be defined within the relativistic space-time continuum and/or environmental conditions, and identified by their sensorial manifestations. Here are standard examples:

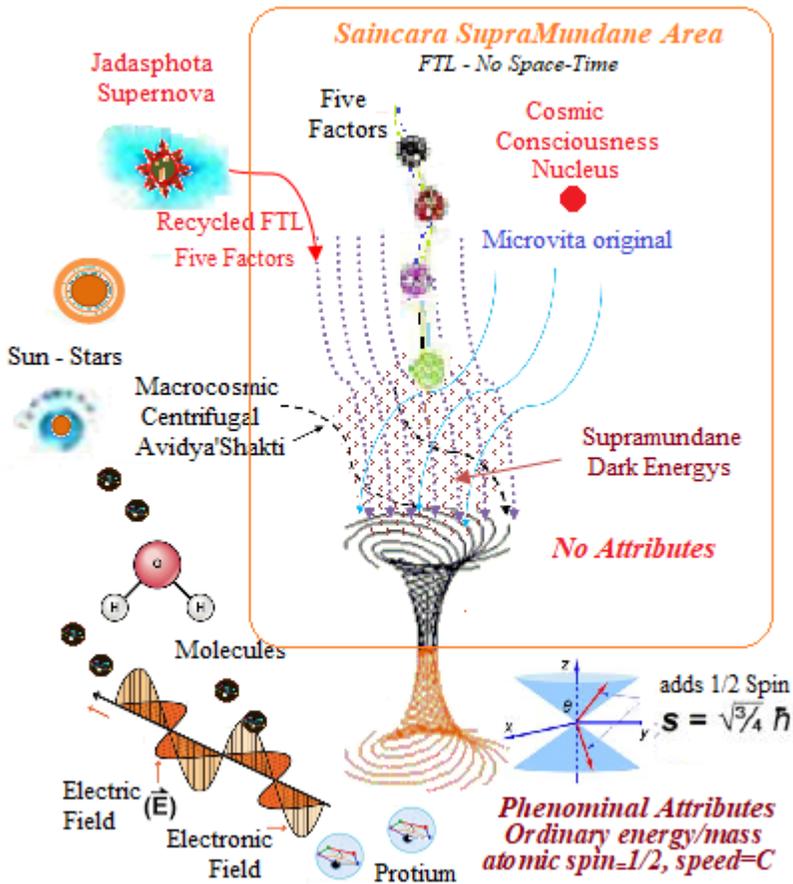
- color
- melting point
- chemical affinity
- valance change
- electrical and magnetic attributes
- electric and electromagnetic field waves,
- molecular and chemical bonds
- isospin
- electric charge
- parity
- half -life time
- sound waves
- density
- mass
- rest mass
- spin-defined as atomic spin as $S = \sqrt{3/4} \hbar$
- energy - classified by moving or rest mass
- speed-defined with velocity of mass/object from A to B
- vibration - defined by frequency
- number of attributes

The Distinguishing Characteristics of matter

Before looking at the below drawing you might like to look at the overall drawing of the Ordinary Brahmachakra Cycle of Creation . It is the basic overall view of the Cosmic Cycle of Creation before and after creation of matter. A simple creation of matter from Cosmic Consciousness and the emergence of mind with its mental evolution

back towards the Supreme Cosmic Consciousness. Microvita was not included.

Attributes of Matter Cycle



Attributes in Matter Cycle

Here is the same Macrocosmic cycle of creation drawing for only material objects (no mental waveforms) showing the creation of material objects (matter) going through the normal process of atomic nucleosynthesis and its recycling back into matter.

Notice that spin, electronic attributes, electric fields, etc at emerging attributes that are resultant emergent apparent attributes after

the fact of atomic creation. Those are the reflected waves that our senses pick up.

We do not sense the actual construction of the primeval protium atom only the reflection (and later the destruction) of the created waves within the phenomenal world of relativity. Even the so-called electrons are only created as resultants of the movement of newly created waveforms within relativity. What are the real forces, energies and constituents of matter and how we can conceptualize them is the thrust of this book?

In order to determine the distinguishing characteristics of matter we have to know the exact constituents of matter. Shrii Shrii Ánandamúrti defines these exactly but as you might expect He does not define them in classical terms. Empirical analytical observations do not provide the answers to what are the characteristic attributes of atoms and matter. They are described in the chapters [The Distinguishing Characteristics of matter](#). First we must understand what the difference between attributes and information is. This is because the universe has information in other than just atoms, but not in the sense of bits, bytes and informational density.

Physical sciences mistakenly use the physical senses to define the change in structures. In other words the structural changes in physical objects are characterized by their own sense related description of the objects or/as a change in relative position. This does not show the cause of the change. They will plaster terms like force, work or energy on the surface to attempt to describe the physical change of structure.

They even invent a word to describe the results of that action by calling it work in terms of joules and saying that; joules “is the work done when the application point of a one Newton force moves one meter in the direction of application” Then they define Newton as an “unit of force equivalent to the force that produces an acceleration of one meter per second per second on a mass of one kilogram”. This is exactly the same as when scientists kept inventing new words to describe a smaller and smaller unknown atoms.

Within a major wave creation (as in creation of primordial protium) or in the modification of created major wave, any actual change in these major waves will alter the physical characteristics and/or the resultant appearance of the atomic waveform to us. We observe only the partial reflection/refraction of the inherent characteristics of the major wave. We detect vibration and vibrational changes caused by energy changes and/or location changes of object

structures. In no case do we detect the major wave form or its constituents.

Microvita is an actional energy force carrier in all phases of creation, not an attribute because it expresses the actions of objects like electromagnetic field waves, electric field waves, even gravity waves or sound waves; anything that is within in the mundane/supramundane realm that expresses action to the senses (or extension thereof).

In microvita theory, when microvita makes any changes in energy in the atom, the major wave and the resultant wave reflection appear as minor emergent wave changes to us. These are secondary emergent reflections and give us what we call attributes of matter.⁶ These are physical qualities or attributes such as melting point, color, viscosity and chemical affinity and are a function of the secondary or emergent reflections of the individual element or molecule. The identifying attributes appear as resultant attributes like color and viscosity of the physical changes made in the molecule or element. These attributes are not the cause, only the effect we identify with changes in the object. We identify through waveforms only. It is the secondary emergent waveform itself that changes and we sense.

The frequency of that minor waveform changes and the color changes say from green to blue. That which appears as an attributional particularity is the result of the change. Physics uses the term ‘observed phenomena’ for what Shrii Shrii Ánandamúrti calls them attributes or attributional expressions. Science calls these expressions information and information density.

These are the type of material wave form changes to matter.⁷

- Major wave change - by re-combining the five rudimental factors core nuclei energies within the atom (protium)
- Minor wave change - by utilizing microvita to affect subsidiary emergent waveforms reflected/refracted from the atom.

⁶ The external pressure of attributional bondage [tamogun’a created by Prakrti] and the internal frictions [due to closer inter-atomic spaces] compel greater and greater attributional expressions [molecular and chemical bonds, electrical and magnetic attributes] in the bodies of objects.

Chapter_1.html

⁷ **Bates, Raymond, *Microcosmology, A New Paradigm of Relativity*, July 2017, CHAPTER FOUR General Inferential waves**

What is information?

What information is relevant to atomic theory and what information we are not getting? Information is knowledge; that is knowledge of what is already known. That which is not known is only theory. The purpose of knowledge is to compare one known bit of knowledge with what is already known.

Facts are not knowledge. All this knowledge is not bits. Knowledge is limited to what is already known to the observer. This is precisely the reason that quantum Q-bits will never be the answer for the information bits science is looking for in our empirical information age.

In the information age, IT has only one goal in mind, that is technology related to human information processing and to allow the human mind to do what it can do best; comparative analysis and concept comparison of known knowledge. This type of process overwhelms the mental aspect of any device, either human or AI with every bit of extraneous analytical piece of garbage that only defeats the very propose of analysis.

Empirical knowledge is relativistic

Empirical analytical observation is not the answer. Information is what we call knowledge of our differentiated universe of relative attributes that appears to our senses. No two atoms are the same. Diversity is the law of the universe. Sensorial information is relativistic information that changes in accordance with Time, Place and Person. That means that secondary waveforms contain attributional information and can change in accord with Time, Place and Person. How these secondary waveforms are changed is by modifying/interrupting/changing the Microvita energies within and/or without the structure. Information (example digital information) can be superposed on waveform.

In microvita theory, it's not the five rudimental factors that change in an atomic structure that changes and the resultant is tanmtric waves that we see as emergent attributes. It's the energy distribution within the atom that makes the elemental changes. The amount of five rudimental factors in every single atom is always the same as when it was originally formed into protium. The primordial atom has a certain

make up of five rudimental factors, the actual factorial amounts do not change to a different composition of attributes, electrons or particles. Only the energy distribution amounts change among the different factors, by the controlling microvita. The five rudimental factors nuclei remain the same.

Tanmátras reflect from waves. Energy changes the waveforms appearance, to our tanmtric way of viewing objects. We should never look at five rudimental factors as a clump of five solid particles like objects in a solid center. In a drawing it may appears that way for sake of the visual description. In reality they are waves carrying microvita which are also waves. Both five rudimental factors and microvita are particle like waves (wavicles). Tanmátras are waves also, just shorter waves being reflected and refracted off the longer five rudimental factors waves. The microvitic energy changes amounts from one controlling point to another. This actually changes the wave characteristics of shorter, longer, frequency, wavelength or amplitude. What we see is those changes in say, the frequency from 420 Å to 460 Å. This results in a color change to our eyes. In some major frequency changes of the waveforms the (for example) matrix/shape of the element will change along with the color.

If empirical physics continues to look for attributes of their misguided “bit work” and a solid nucleus (of proton/nucleon) with electrons circling around it, with an undefined amount of classical energy included; where will the bits come from?

Scientists of the future will think of atoms as having a constant energy state. This gives the elemental form structure to our tanmtric vision. But when the energy state is shifted among the nuclei controlling microvita this will collapse the one energy state wave and microvita will cause a shift in the quantum levels form of the energies. This will cause the new waveform to appear and look like a different energy state and different form. In all actuality only the shape of the wave form has changed. Total amount of energy always remains the same in all atoms because they all come from the same basic protium formed energies. Energy is conserved within the atomic structure. When elements combine, the rule remains the same. The total on the structure is the total of the two atoms. Loss of energy will deplete the total and can be observed as radiation, heat etc.

Assuming the above energy scenario occurs, then the observer will receive only relative emergent attributes. Does this explain what is happening inside the atom? Energy redistribution within the atom will results in different emergent attributes, different frequency shifts,

different spin rates and different chemical affinities. This only results in emergent materialistic sensorial reflections which can vary in accordance with the receptor. It does not allow us to explain the intrinsic operations of the major waveforms of the atom.

Relativistic as in relativity, means in an area of cause and effect. Classical physics views the effect and surmises the causes through the apparent emerging attributes available through or senses. There are areas of 'cause' that are areas of creation that are areas of no attributes and cannot be defined by the apparent attributable effects.

Shrii Shrii Ánandamúrti describes the major portion of the creative cognitive universe in metaphysical terms that are not presently within our physical observational sphere. This is why the above descriptions are given in microvitic terms. We need to open our mind to a new non relativistic viewpoint of creation. To take of minds out of the Schrödinger box of relativistic questions of whether or not the waveform collapsed and think out of the box.

What is an ańu of information?

We must look at the *unknown* (non-sensorial) information that Shrii Shrii Ánandamúrti uses for His outline of our atomic world of matter. Shrii Shrii Ánandamúrti calls the 'ańu' the smallest bit of information that contains all the characteristics of the subject (atom in this case). If we choose say for example, an element or molecule, the possibilities of any object of information becomes exponentially difficult for this discussion. What is needed to fulfill the requirements of this ańu-bit of information?

Our small ańu-bit package became a whole warehouse of so-called information! One atom requires all this branching, just for an ańu-bit of information? Our top-down analysis of a bit of information became a Plank size quantum maze of extraneous garbage.

If we try and define what is that ańu of information that will allow us to base the structure of our atomic world on known empirical knowledge; we will fail. Our very understanding of our atomic world around us is based on just a sensorial reflection of a shadow of the atomic world around us.

What we are actually using to determine the characteristic of our atomic world are only minor sensorial attributional manifestations - like color, melting point chemical affinity, or the valance change, electrical, EM, magnetic, molecular and chemical bonds, electrical and magnetic attributes, isospin, parity, half-life time, We even define shape and form

by minor sensorial attributional manifestations using tanmátras that are only reflected from the rudimental factors as sensorial waves, wave of sensation of touch, radiation (vision), liquid body (flow) and solid structures (smell) and vary in accordance with the method of sensing the tanmátras

We must base the ańu bit of information on the Shrii Shrii Ánandamúrtil's *unknown atomic world theory*.

Here's how Shrii Shrii Ánandamúrtil describes it:

The smallest portion of any entity that carries its fundamental characteristics is known as ańu. *Aunka_to_Aksa_Discourse_3.html 1985*

What would describe an ańu bit of information? We need form or shape. That can be a function of vibration frequency numbers which defines every material object individually. We need energy. That can be a function of type or volume numbers using dark energies from the creatom point and ordinary energies in the biological assist phase. We need control structure. In Shrii Shrii Ánandamúrtil's terms that would be microvita and its controlling mind. We need a description of the five rudimental factorials that make the hard structure of the fundamental atom. These are classified in accordance with the tanmátras sub-wave reflections on each of our five senses (or extension thereof).

It may be hard to comprehend how an object with no attributes can suddenly appear in relativistic space-time as a stabilized atom of protium. Try to look at it this way. Shrii Shrii used the specific term 'attributable expressions' for a very important reason. Not all attributes of some objects are able to be expressed to our limited senses (or extension thereof). Look at a beaker of liquids when a specific catalyst is added. Maybe the solid structure appears and maybe a change in color occurs. This is precisely what happens when protium appears in our relativistic universe from apparent nothing.

In the case of protium 'appearing' in our attributable universe, all the ingredients are without any attributable expressions to our senses. Dark energy has no known attributable expressions to our limited way of sensing. It is not affected by light, radiation, mass, EM or electric charge or even gravity (maybe only very slightly). What about the other ingredients into the implosion where protium appears? Microvita is not detectable (except through its ordinary actions through energy) in relativity. The five rudimental factors with consciousness are compressed so much that their very state is dormant and their size has become so small that that very individual nucleus is undetectable by ordinary senses.

The word *añu* is a general Sanskrit word describing generally that smallest portion that in itself can be used as a template to reproduce the larger object. In mental terms, in developed biological entities that specifically is named *cittañu* or mental mind atom. In this unit mental structure it is created as a result of the physical desires, needs and mental composition of the evolved physical body. In death that would be the disassociated mind or bodiless minds carrying the mental *sam'ska'ras*.

For atoms, *añu* would be the information that is held within the mental structure of the controlling microvita mind. That is described as algorithmically pre-programmed in the first phase of microvita mental evolution described below in [*Microvita evolves in stages*](#). In the latter stage of microvita evolution, after the *jadasphota* stage awakened microvita and when microvita is released from their atom based bondage, microvita also have chance as 'living beings' to further evolve. Here another word is needed to express this enhanced mental evolvment and I used the term *micro-sam'ska'ras* because as 'living beings' they are directly involved with other differently evolving living beings (us) that have *sam'ska'ras* to modify their mental structure. Shrii Shrii *Ānandamūrti* used an allegory of this type of description in His discussion with *Acarya Vimalananda* by comparing it somewhat to the biologically based RNA/DNA.⁸ He called the stage of microvita awakened.

We must remember that microvita can not die⁹ due to temperature or pressure or environmental conditions, especially during the first atom stage. After awaking they can proceed on their psychospiritual evolutionary path.

For plants and undeveloped mental objects, this type of allegory is not needed as their mind consists entirely of the crude unit *citta* and they cannot use that higher type of mental formations. They use slow environmental adaption based on their basic DRA/RNA modules passed along in the species.

⁸ The RNA and DNA of a particular virus [virus in the greater sense] is unique to that virus. Particles of Cosmic Citta (Objective Cosmic Mind), when microvita are emanated from Cosmic Mind, already contain the information for RNA or DNA. This information is there but not seen until microvita is awakened,..." *From private notes of Acarya Vimalananda Avt., given to him in late August 1988 from Shrii Shrii Ānandamūrti*

⁹ Negative microvita will die a natural death after their natural life span. In order to kill negative microvita before the end of their life span, the number of positive microvita has to be increased... [Questions_and_Answers_on_Microvita_Section_B.html](#) (Q15) 1987 (typed notes)

*Quantum ańu*¹⁰

There are fundamental characteristics contained within/from the primary wave form of five rudimental factors once the atom or atomic structure attains a stable status in relativity. If the structure or energy within the structure changes, the primary waveform including the quantum information will change. Example molecular changes in energy levels will change the quantum information and also the secondary emergent attributional information. We cannot directly determine the fundamental quantum characteristic expressions except as mathematically conceptualized.

This is not trying to insert a new type monopole or other over used physical description of the smallest atom. The word ańu is a Sam'skrta work around for thousands of years for a very specific reason. When you break down any object there comes a point where the description of the larger object no longer lies with the smaller part. If you observe only the toenail of an elephant can you determine the entire elephant?

Based on this current understanding of microvita theory I would guess that in the future we might understand that the quantum ańu that defines the basic protium atom structure at the creatom place, will be a rigidly defined intelligently designed algorithmically pre-programmed sub-assembling algorithms that are probably based on some fractal producing base that defines the limit that not only controls the protium through the atom-molecule-nucleosynthesis process, but allows the microvita control structure to reshape its algorithmically designed structure to continue through the physic-spiritual process of providing ordinary energies to the biological structures. Microvita are force energy carriers in all phases of creation. They are collective entities that do not die except other microvita actions.¹¹

*Cittáńu (mind atom)*¹²

10 The smallest portion of any entity that carries its fundamental characteristics is known as ańu. [Aunka_to_Aksa_Discourse_3.html](#) 1985

¹¹ Negative microvita will die a natural death after their natural life span. In order to kill negative microvita before the end of their life span, the number of positive microvita has to be increased... [Questions_and_Answers_on_Microvita_Section_B.html](#) (Q15) 1987 (typed notes)

¹² There are different kinds of atoms which do not come within the physical arena or even within the realm of physical perception. [1989Guidelines_for_Commencing_Microvita_Research_Section_B.html](#)

Mental cittánu have inter-ectoplasmic affinity. This is why the cosmic mind stuff (citta) with cittánu inside coagulates into solid unit mind stuff in matter around the cruder factorials within the unit mind. *Unit ectoplasm* dies at the death of the unit biological structure. The higher mental structures ahamtattva and mahattattva do not die at unit structural death.

In addition to holding the two basic faculties of mind, it also holds the cittánu¹³ particles. These are thought to contain the psychic building blocks that allow the basic instinctual needs of complex structures to be met. Needs here means the four instinctual needs of the most basic consciousness unit. I.e. sleep (rest), reproduction, eating (assimilating for growth) and maintaining the structure (self-preservation).¹⁴

Paramánu

The smaller portion of the ánu, which does not carry its fundamental characteristics, is known as paramánu [sub-atomic particle].
Aunka_to_Aksa_Discourse_3.html 1985 Def: Paramánu: A sub-atomic particle

¹³ The individual parts of ectoplasmic cells are called citta'n'u.

The_Macrocosm_and_the_Microcosm_1.html 1959...citta'n'u [mind-stuff], which is subtler than ether
Chapter_1.html 1962 1-12

¹⁴ Bates, Raymond, *The Internal Being, Reincarnational and Intuitive Psychology*, Writers Club Press, (out of print), 2000, Revised E-edition, 2016

What is consciousness?

Is consciousness a tangled-hierarchical micro-quantum possibility wave that allows us to posit our own self in a zero energy field whose causal efficacy determines our existence? Got all that? I didn't get it either.

Cognitive Universe could mean in one sense that the universe has a conscious or intellectual ability. Here is a common definition of cognitive:

1: of, relating to, being, or involving conscious intellectual activity (as thinking, reasoning, or remembering) [This has the false assumption that everything cognitive is human like]

2: based on or capable of being reduced to empirical factual knowledge (originating in or based on observation or experience) [Based on the false assumption that being cognitive is sense oriented]

By using the standard definition of cognitive in the title implies that the universe must be conscious and therefore alive. This again leads us into the quagmire of whom or what is conscious and what does alive mean. This in turn could allow theological implications of God and intelligent design. This is not at all my intent. Consciousness is a product of the Cosmic Consciousness. Consciousness is not based on our concepts. Consciousness can better be described by what it does rather than what we think it is.

To define consciousness we look into who is and what is making the definition consciousness. We must look into questions like "What creates consciousness?" This question relegates to "We don't know what to look for".

The master says that "Nothing is ever new, everything already exists?" Here the word 'thing' means objectively existing in our world of relativity our world of cause and effect. Even ideas are the harbingers of thought effects. It's sort of like directing our thoughts on the correct path. The wrong path will not lead to the right answer. If we just had some idea of what we were looking for; believe me a million physicists could find it. We look for things we expect to find. The word 'expect' is seminal. Whether we call it idea, concept or intuition; it's still an objectively directed path of enlightenment.

This first stage on the path is the classical question: "Who am I?". Shrii Shrii Ánandamúrti never said that this is the specific question, He merely described (for nearly 35 years) the answers in physical, mental and spiritual (some will say metaphysical) terms. He proprietarily

described our existence (as evolving beings) in terms of matter, yes atoms. How mind (ours) came from matter.

It wasn't until the last three years before His departure; He directed our minds on the path of microvita. Only then could we see how matter was created. Before, it appeared only as a philosophical path of misunderstood energies and forces. Only then could our minds be directed towards our universe as a continual, maintaining and recycling universe. He directed our minds to the one seminal world of creation: consciousness.

Consciousness not as some super intelligent god-like being that creates, maintains and destroys the universe; but as consciousness within every object in our universe. Not as a giant mind that allocates different minute portions for each beings needs; but as consciousness evolving and adapting in every object in our relative universe of cause and effects. And then, only by looking at what He said before and comparing it to what He showed as the new concepts of microvita, could we understand to look at the other proprietary direction that we need to evolve towards; that we are not alone. Microvita is a psychophysical point-like¹⁵ mental "living being".¹⁶ A collective minded structure that carries energy throughout the universe. It is a "Doer-I" in our universe that creates and maintains us and our "Done" universe. He opened the path to understanding collective minds to our individualistically directed unit selves. Consciousness has other forms, not only what we directly perceive.

The most fallacious assumptions of consciousness are extremely mundane. The world of physics is based on materiality. For the last hundred years physical observers of our created world have colluded to the rather common idea that consciousness is a necessary function of our real physical world. Unfortunately they continue to assume that consciousness is irrevocably related with conscious, meaning conscious waveforms, and again assuming this normally means that there is a conscious observer, normally us. Of course rigorous thinkers (even in ancient times) have further endorsed materialistic thinking along the lines that consciousness/conscious evaluates as knowledge combined with some method of feelings (ancient qualia). Modern day revisions of this fallacious assumptions fall into information theories and

¹⁵ As a microvita is a singular entity, it has no structure. By nature it is more energy than matter... *Questions_and_Answers_on_Microvita_Section_B.html (Q11)*

¹⁶ Considering that microvita are living entities, they have bodies, though their bodies are as subtle as idea. *Some_Guidelines_for_Commencing_Microvita_Research_Section_B.html*

computational knowledge theories combined with some extraordinary methods of mixing conscious (mental) thoughts as waveform, That all this when collapsed, is responsible for producing the reality we see around us.

The purpose of this section is to show that consciousness is not what we commonly assume /evaluate as conscious waveforms per se that can collapse and control the reality around us. Those waveforms are only a materialistic method of archaic measurement standards endorsed by classical science to push irrelevant assumptions on humanity.

If one accepts the assumption that is inherent in the Copenhagen Convention defining ‘consciousness as causing the collapse of the wavefunction’, then one has to accept a whole inherent string of materialistic misconceptions and interpretations on the definition of consciousness.

The basic predication of Shrii Shrii Ānandamūrti’s proprietary preposition is:

The unit mind is a metamorphosed form of matter, and matter is a metamorphosed form of Cosmic Mind. In the process of evolution, the Cosmic Mind takes the form of matter. *Cognitive_Faculty_and_the_Supreme_Desideratum.html 1967*

And

Matter is the creation of Macrocosmic Mind. Unit mind is the creation of matter."
Triangle_of_Forces_and_the_Supreme_Entity.html 1967

These eliminate the very egoistical assumption that our mind (or any created mind) can collapse that which it cannot create. Our mind was created from matter, not that our mind can create matter by collapsing the material waveform.

Does that make matter the primary waveform, of the created universe of cause and effect? No it means that it is the crudest waveform of the created world and that more subtle waveforms can control the cruder waveform. In the mental sense we are created from matter and are more subtle.

It may seem rather presumptuous at this point to want to show you a preview of the grand chakra of creation and life, but it reminds me of the old parable of the blind man feeling the toes of the elephant. The grand picture needs to be seen. The portion of creation of matter could not be understood without the introduction of microvita’s role. Just Cosmic Consciousness from an undifferentiated matrix composing matter through implosion process and adding some central forces; an atom does not make.

Until the explanation of 'how' microvita utilized natural entitative wavelength to provide the form with structure and how sub-assembling algorithms could control those interial energies in a stabilized logical manner for billions of half-life years; atomic energies could not be comprehended. See drawing Evolution of Energy cycles. But for microvita and the grand cycle this is only the first stage. The toe nails of the elephant. Microvita becomes released/awakened. Energies can be recycled (jadasphota recycling). Released microvita evolves and vitalizes life under certain conditions. The grand purpose of this universe can be completed by the releasing of the unit mind consciousness, in order to complete it return to the Cosmic Consciousness.

Two types of consciousness

That mind has a commonality. That commonality is collective.

This author

Consciousness can be collective or unit¹⁷

Unit Ectoplasm is of unit nature and endoplasm is of collective nature.

Questions_and_Answers_on_Psychology.html Q4 (unknown date) About 1986-1989

One of the most misunderstood (or better said) little understood beliefs about consciousness is that consciousness is all the same. By that I mean that those who believe that consciousness is in everything in our universe simply assume that consciousness is similar in all beings and all parts of our universe. That is not true.

What is true is that consciousness is within every structure within our cosmology, including within us but we cannot perceive the differences in types and actions of the One Consciousness. Like all things in our universe, it changes. Like all things within our universe, it is constantly moving.

It was not until Shrii Shrii Ánandamúrti introduced microvita during His last few years did we have the chance to see the differences in consciousness structures in our universe. Previously, He described the ubiquitous characteristics of the cosmic form of consciousness and

¹⁷ based partially from a letter sent to Rudresha

how it related to our individual consciousness with descriptions of the differences in ota and protah relationships between us (as unit beings) and the Supreme Consciousness. From those general and philosophical discussions, the subject appeared mainly as communication differences between our individual relation to the Supreme Consciousness and that same Supreme Consciousnesses relationship between Itself and the various parts of Its own being. Although those different types of relationships do exist, it is not the basic difference in consciousness types.

There are basically two different kinds of consciousnesses structures¹⁸ determined from where they emanate from and what they consist of. For many years, from His earliest teaching days, Shrii Shrii Ánandamúrti's most proprietary premise of our individual unit type consciousness was that our consciousness was derived from matter.¹⁹ In other words that the consciousness within our being came from the breaking up of the bound Supreme Consciousness that was within every material structure. He described in many ways how that most basic mental mind particles (citta or cittánu) coagulated differently around different material structures (basically molecular) becoming more and more animated, eventually resulting in highly evolved human mentality. Not until He described microvita (in His last years) and its impact on all material and mental structures, did He describe collective structures. We as a unit mind structure, evolve from mater. Microvita as a collective mind structure does not evolve from matter; they come from (and later evolve) a place that we cannot perceive with our material based senses. This is precisely why He differentiates and describes the mental area of Pratisaincara as a mental area that all living being (including microvita) evolve mentally within. The other theoretical area (to us), is Saincara a collective consciousness area of the Supreme Consciousness. This is where microvita emerges from, with a collective type consciousness (to us an area not available to our unit mind based senses) and they proceed to the construction of the material atom and their own different type of collective mental/spiritual evolution.

What is the difference between unit mind consciousness and collective consciousness? The simple answer lies in life and animation.

¹⁸ Thus, endoplasm is collective in nature and ectoplasm is unitary in nature.(Q4) *Questions_and_Answers_on_Psychology.html* (unknown date) About 1986-1989

¹⁹ The human mind did not come directly from the Macrocosm; it came from matter. And matter is a creation of the Macrocosm. *The_Supreme_Cognition.html* 1966

If we look at consciousness in a materialistic way, we will see it described as we see it in atoms, dead or dormant. This is because the five rudimental factors in the atom are only consciousness so modified and compressed that they appear dormant. Energy has become dominant and is controlled by the only other prevalent microvita mind, in the atom (microvitic subtle mind in atom). Microvita is locked in a practically endless state of control scenario and has very little chance for independent life and animation, within the atom. The consciousness within the higher microvita mind has no ectoplasm, no higher functional unit aham, nor unit mahat. Those functions are for unit mind created from matter. Unit mind ectoplasm is what we call unit citta that creates mental constructs inside unit mind (and limited memories) that dies with the unit death. None of that is in microvita.

Does collective microvita mind have five rudimental factors present within its mind? If that were so then collective microvita would have unit mind ...not collective mind because the pulverised mind stuff (cittáñu) actually collects around the five rudimental factors as its base and it (cittáñu) is much too crude to be part of microvita's subtle mind.

So how can life and animation be the clue to the differences in microvita collective and unit microcosmic mind? The answer always lies in TPP (Time, Place and Person). Microvita is not life as we think of animated life. Microvita as an entity does not mean it has to be alive as we think of alive. It makes other structures come to life by providing the práñáh (life energies) to vitalize the material structure.²⁰ Energy is only práñáh, when the precise environment is available to create life. Microvita is there (for life giving) due to environmental considerations²¹, not as some "gift of life given from a God like being".

Microvita is a very limited entity. It is an intelligently designed algorithmically pre-programmed sub-assembling algorithm with no capacity to have individual (independent evolved) actions and develop life like qualities. It has wants and desires but in its beginnings they are very limited to its programming. The programming is basically involved in maintaining frequency modulation to control shape (form) of objects it is attracted too (which includes modifying shape changes due to environmental energy changes). Its desires are very limited to attraction within its matter controlling phase. In Microvita's later

²⁰ This negative microvita causes the creation of newer carbon atoms and other sub-atomic particles. These particles then create unicellular life, and sometimes, somewhere, multicellular heterogeneous life also. *Smell_and_Microvita_Section_C.html* 1988

²¹ And in a collective body, the collective controlling faculty may create a sort of change in the physical structures if such a change is supported by Macrocosmic conation [cosmic mind], otherwise not. *Four_Dimensions_of_Micropsychic_Longing.html* May 1987

phases of existence its micro-sam'ska'ras increase due to travelling on increased inferential waves and its wonts (small desires) involve modifying higher physical forms like molecules and protozoic structures. Microvita is an intelligently structured entity that is programmed to fulfil the instructions of unity, not diversity. It works under very strictly defined laws of unity and allows diversity to occur only in regulated environmental conditions. Diversity is the law of adapting nature (unit mind), not the law of unity of form. No two things of the universe are identical. Microvita is not an animated entity; it is more of an automated entity.

The question may arise “How can microvita (especially as with consciousness) be so many things all at once? Making the atom, controlling atom for billions of years and working with the endoplasmic and psychic structures in living beings?” To our normal way of thinking that seems impossible. One small thing doing all those things?

The answer lies in that it is programmed to evolve. The individual microvita is not a person like us. It does not function in time as we do. It has a life but it evolves much differently than we do. Microvita can help us to evolve quickly by expanding our consciousness abilities. We must view Microvita as an entity, a microvita who's only function is to be the “Doer-I” of the universe, to exist only to make our universe function. Just as we are not Cosmic Consciousness puppets, microvita is not directly controlled by the Cosmic Consciousness. We (and microvita) have indirect (not direct) access (not control) with the Cosmic Consciousness but the place and time functions are different. Each microvita has two minds. (Discussed fully in other books) Microvita evolve in a regular pattern, from atoms through recycling functions, through ‘doing’ things using energy transduction, evolving micro-sam'ska'ras, helping as devayonis, etc. etc. The answer is in what they are.²² They are not like us.

Because of the complexity of the subject; included below is a chart of the mental uses of both the two mind structures and how they are used throughout the cognitive universe. All this and the terms are discussed in detail in other books. This book is only to summarize a more complete understanding of the overall process of how and why the universe around and within us, is both creative and cognitive.

²² Bates, Raymond, Biometaphysics, A theory of Biometaphysical Genetic Transference, Revised E Book, April 2016 Chap 7 Role of Consciousness in the atom

Technical Chart of Unit & Collective Mind

	Unit Mental Structure			Collective Structure	
Structure	All living unit	Human Physical	Human Unit mind	Atom Crude	Microvita Subtle mind
contains items	protoplasm	protoplasm	pulverized matter cittánu	In 5 RF	Microvita subtle
purpose of structure	diversity, expand, evolve	diversity, expand, evolve	diversity, expand, evolve	unify	unify
Formed around	ectoplasm		chakra vrttis	5 RF	Cosmic citta
Environment	Physical, Mental, Spiritual			baryonic matter	inferential waves
energy	prána	pránah (ariel)		ariel	ariel
citta	varying amounts matter evolved			dormant	Cosmic
aham	varying amounts matter evolved			dormant	Cosmic
mahat	varying amounts matter evolved			dormant	Cosmic
5 RF ²³	In atoms	In atoms	In Chakras	yes	No
evolving	evolved from matter			Nucleo-synthesis	psycho-spiritual
Base	physical	corporal body	brain	Factorial nucleus	Cosmic
Substantiated by	protah	ahańkára	jivátman	Cosmic Puruśottama	
modified by	microvita energy			environment	environment
control structure	ectoplasm	Microvitic endoplasm	human ²⁴ psychic	Microvitic Prama	

²³ All the perceptible physical objects of the world are composed of the five fundamental factors. *Saincara_and_Pranah.html*

²⁴ The intellectual unit mind [our guiding psychic] controls the physical activities of the blind práńáh [vital energies] of the unit structure.” *Pratisaincara_and_Manah.html*

cakras	minimum 1st	7	evolved vrttis	none	none
vrttis	evolve	evolve	evolve	none	none
Brahmacakra	mental Pratisaincara			Saincara	Cosmic
ota/protah	ota/protah			Protah	

Technical Chart Unit & Collective mind

Compiled list of generalities of Consciousness

- ✚ *Consciousness is ubiquitous and in everything*
- ✚ *Consciousness is particulate in phenomenal matter*
- ✚ *Consciousness is not life, is not energy*
- ✚ *Consciousness is not based on our materialistic concepts*
- ✚ *Consciousness doesn't change...Its abilities change*
- ✚ *Consciousness doesn't die*
- ✚ *Consciousness does not evolve, it adapts to environment.*
- ✚ *Consciousness can be collective or unit based*
- ✚ *Consciousness is a product of the Cosmic Consciousness*
- ✚ *Consciousness is moglified by Macrocosmic force of Avidya' Shakti in Saincara*
- ✚ *Consciousness (as waveform) is attracted to (solidified consciousness) matter*
- ✚ *Cosmic Consciousness has general characteristics not perceptible attributes such as: Unit and collective characteristics*

Change is, change in energy and structure

In *Microvita, A handbook* we looked at the overall life and universal use of microvita. Here we shall explore the inner workings of microvita. How it as a living being and a collective structure can initiate change in the macro and microscopic world around us. In order to understand the differences in the minds of the unit and the collective microvita we can find direct differences mentioned in Shrii Shrii Ānandamūrti's writings. What He did was describe the unit microcosms mind in detail over a long period of time. Then He dwelt on microvita for only a very short period of time before He left this earth venue.

All change is actually a movement of energy from point A to pint B. Not so simple. What if A is a living structure? Then change means that structure dies (in one sense) or modifies in the molecular

sense. Each takes different energies and different controls (structures) in every case.

Take example in humans. Fast change is death and change is a new reincarnated body. Slow change means slow deterioration of the structure. In atoms slow change occurs can be molecular or rapid like jadasphota (supernova). In all cases the structure that holds the energy modifies in some way and the different energies move to the new structure. This means two basics – energy and structure with controls.

Energy is all the same cosmic energy only; it is defined by its movement. That is we sense it by its movement from A to B. It can only move from A to B in accordance with the available structure and a controller of the structure. In an atom it is the microvitic control structure. In human there are many control structures, the greatest is called guiding psychic faculty. Sometimes structures appear chaotic, as in bombs or lightning but it is only that earth is the structure, which we do not understand. Always there is structure.

Not all adaption is change in structure. Adaption is environmental change in structure in accordance with the consciousness structure. We see environmental change but we don't see the structure that causes the change because it's a consciousness structure. Consciousness structures come in general classes.

Some in general classes of mental structures

Unit consciousness structures – examples are you, me, plants, and generally everything we see and experience. Unit consciousness structure can be collected together into certain collected structures to perform more complex functions.

Macro Cosmic Consciousness structures - They are involved in creating and maintaining the Cosmos. They are generally not within the relativity of our time, place or person.

Collective consciousness structures –Examples are Shrii Shrii Ánandamúrti's microvitum and endoplasm (a microvitic mental structure). They can assist collected or evolved unit structures and are used to create and maintain atoms²⁵.

A few basic facts about microvita

²⁵ Endoplasm are only used in developed living unit structures.

- Microvitum (individually) are the smallest carriers of life²⁶.
- Microvita are psychic living entities. They live, die and evolve just as other more physical living entities²⁷.
- Microvita like all living entities, have mind (collective) associated with them²⁸.
- The size of microvita varies between a point-charge to a structure large enough to affect the major waveform of matter. Probably somewhere, near the physical size of an electron²⁹.
- Microvita take on (absorb) and give off energy³⁰.
- Microvita travel on inferences both cosmic and the five inferences associated with matter³¹.
- Microvita have psycho-spiritual movement³².

Microvita evolves in stages

When jadasphota [a type of explosion that may be violent or cause normal wear and tear in a structure] occurs microvita awaken and take on a different structure. *From private notes of Acarya Vimalananda Avt., given to him in late August 1988 from Shrii Shrii Ānandamūrti*

²⁶ Now, what is the root cause of this universe? Which is the starting point of life or vitality? These [subtle] microvita are the carriers of life in different stars, planets and satellites -- not carbon atoms [carbon based structure] or carbon molecules. These living creatures with their mysterious movement create minds and bodies, living bodies in different celestial bodies and they also destroy minds and physical bodies, or developed or undeveloped corpora, in any corner of this universe. So the root cause of life is not the unicellular protozoa or unit protoplasmic cell, but this unit microvitum.

Microvitum_the_Mysterious_Emanation_of_Cosmic_Factor.html

²⁷ Like other psychic and psycho-physical beings, they have also got basic characteristics -- such as existing, multiplying and dying.

Microvitum_the_Mysterious_Emanation_of_Cosmic_Factor.html Considering that microvita are living entities, they have bodies, though their bodies are as subtle as idea.

Some_Guidelines_for_Commencing_Microvita_Research_Section_B.html

²⁸ They have the support of conscience behind them. *Matter_and_Abstract.html* [English]

²⁹ So far as physicality is concerned, the position of these [Negative] microvita is just between ectoplasm and electron, but they are neither ectoplasm nor electron.

Microvitum_the_Mysterious_Emanation_of_Cosmic_Factor.html

³⁰ As a result of the inter-transmutation of microvita,...

Microvita_and_Its_Possible_Effects_on_Society_Section_A.html . All of a sudden microvita are transmuted into matter and matter is transmuted into microvita.

Questions_and_Answers_on_Microvita_Section_B.html (Q19)

³¹ By nature it is more energy than matter, so it travels and moves through inferences, whereas other entities cannot move through inferences.

Questions_and_Answers_on_Microvita_Section_B.html (Q11)

³² But if it moves towards the cosmic cognitive faculty it is converted into psycho-spiritual movement, and finally spiritual movement or into the Spiritual Entity. Similarly, a microvitum... *Matter_and_Abstract.html* [English]

Intuitively and logically one must consider that if ‘living beings’ such as microvita are on a path that Shrii Shrii Ánandamúrti called a psychospritual path it must have a beginning and end in relativity. To explain this as a living evolving process we know that He definitely stated that microvita are created from Macrocosmic consciousness (not from matter like us)³³ and proceed through the cosmic mind stuff citta into the material world of relativity through the construction of the primordial atom.

Their first stage is what we would consider a very long one. Probably billions of years during the half-life of atoms. For they are the creators and controllers of the atomic basic structure and all nucleosynthesis.

We described in other works how their type collective consciousness functions as person during the so-called trinity of relativity Time, Space (place) and Person³⁴ but in a very distinctly remote way. Because they have a collective (and very minute) type of collective mind it does contain the required basic aham- mahat to posit in existentiality (they can posit themselves in the material world of relativity).

A more pictorial review can be seen by looking at the drawing The Combined Cognitive Creative Universe showing Microvita actions the red circled number 1 is their entering into the phenomenal world of relativity in the structure of each atom, red circled number 2. From there they evolve elemental nucleosynthesis structure controlling the energy structure as energy carriers until red circle 3 jadasphota (supernova). Jadasphota process was described completely by Shrii Shrii Ánandamúrti without microvita in His 1950’s series of lectures and is briefly touched here below in [About consciousness before Jadasphota](#). The complete structural dissociation products are discussed further here³⁵, including microvita.

What we learned from Shrii Shrii Ánandamúrti’s last series of microvita dissertations they could not die (as in supernova explosions), created (energized) life processes and helped developed beings through

³³ when microvita are emanated from Cosmic Mind, already contain the information for RNA or DNA. This information is there but not seen until microvitum is awakened, ...” *From private notes of Acarya Vimalananda Avt., given to him in late August 1988 from Shrii Shrii Ánandamúrti*

³⁴ Bates, Raymond, Microvita. A Handbook, First E-edition, June 2019, Chap Cosmic Cycle of Creation with Microvita, Conflicting points on Time and Person

³⁵ Bates, Raymond, Macrogenesis. A New Paradigm in Consciousness, Revised E-edition, April 2016, Chap IX Quantum and Cosmic Forces

moving energies on certain waves and in specific environmental adaptive circumstances.³⁶

Red circle 5 shows what Shrii Shrii Ánandamúrti describes as ‘negative microvita’ creating (energizing) life molecules as the molecular biological structures proceed on biological evolution. Biological evolution proceeds on its separate evolutionary way in accordance with the mental capacity of the biological structure.

Notice that the structure is now labeled Pratisaincara; a mental structure, not strictly a biological structure. Lower biological structures evolve using very basic matter formed unit ectoplasm (unit citta) until they evolve to ‘developed’ mental structures and then need the collective mentality of microvita in collected mental structures of endoplasmic³⁷ microvita at red circle 6. From red circle 6 developed human minds are assisted by different types of microvita in their physical and mental development. This can be either through group mental structures called devayonis, for the mental development of humans or can utilize other psychophysical microvita energy structures like positive or negative virus and disease (red circle 7). Other more earthly structures (red circle 8) and be influenced by microvita.

Microvita are continuously emanating from the Cosmic Nucleus.³⁸

That leaves us with the universe’s maintenance. Shrii Shrii Ánandamúrti explained how microvita created and controlled atoms and how both consist of two parts mind and matter. He described the recycling of parts of the universe and how endoplasmic microvita maintained specific living organisms.

At this point on the [Cognitive Creative Universe drawing](#) in the normal area of phenomenal space and time, ordinary atoms combine chemically in the standard process of nucleosynthesis. Microvita is the catalysis and control center for all the energy combinations of nucleosynthesis. This is not the start of the bottom to top process of consciousness. It is merely the beginning of the continuous recycling process in the continuum of consciousness.

Few western scientists listened without a clear belief, that there was consciousness in matter.

³⁶ All these case are specifically described with notations in Bates, Raymond, [The Microvitic Atom, Microvita Sub-structures in the Atom](#), July 2016.

³⁷ Briefly described in section below *about endoplasm*

³⁸ .. when microvita are emanated from Cosmic Mind, already contain the information for RNA or DNA. This information is there but not seen until microvita is awakened,...” *From private notes of Acarya Vimalananda Avt., given to him in late August 1988 from Shrii Shrii Ánandamúrti*

Shrii Shrii Ánandamúrti states that consciousness is a fundamental part of everything in this universe and exhibits itself from its dormancy in every atom throughout its progressive evolution to evolved minds. Consciousness evolves according to its biological complexity. Living complex molecules evolve consciousness in accordance with their complex systems necessity for expression. A plants consciousness is *not* an example of a complicated biological system and does not need an advanced consciousness control system. Shrii Shrii Ánandamúrti's endoplasmic microvita provides that complex organ coordination system on higher evolved/developed species as in lower animals etc. Ordinary microvita guides the elemental physical/chemical evolvments of atoms

Summary of microvitic changes

Positive or negative microvita can affect the protoplasmic cells of a structure directly, and even bring about a change in the genetic structure.

Questions_and_Answers_on_Microvita_Section_B.html (Q13) 1987

- Microvita utilize energy within their collective subtle mental structures to change and control all levels of all objects from atomic to developed organ bodies, collective mental bodies and cosmological bodies.
- Microvita can be psychically guided/directed to make physical/mental changes in mentally developed/developing organic units. This happens through attraction.
- In undeveloped/inert/dormant mental structures, microvita can provide the conducive atmosphere/vibrations for congenial evolutionary and environmental changes.
- Microvitic changes occur only within conducive³⁹ environmental conditions.

About endoplasm

Endoplasm collective I microvitic structures are only needed in

³⁹ In a living celestial body, the existing congenial environment will cause transformation of práña [general energy] into práñáh. [Vital energy (práñah) the ten váyus] *Concept_of_Gunabhivayakti_and_Jadasphota.html*

And in a collective body, the collective controlling faculty may create a sort of change in the physical structures if such a change is supported by Macrocosmic conation [cosmic mind], otherwise not. *Four_Dimensions_of_Micropsychic_Longing.html May 1987*

developed living structures.⁴⁰ Atoms, undeveloped living structures and plants do not use endoplasmic collective I structures because they have not developed the I-feeling. Here is what microvitic endoplasmic structures do for us:

- Allows full expression mental knowing faculties
- Allows higher expressions like vritti
- Allow expansion of existential-I faculty (sentiments and emotions)
- Allows psychic developments (discrimination and eventually intuition)

⁴⁰ Where the mind is not expressed there is no endoplasmic coverage, and where the mind is expressed, endoplasmic coverage shall be there. *The_NeoEthics_of_MultiLateral_Salvation.html*
1987

Cosmic Forces and Energy

Behind it all is surely an idea so simple, so beautiful, so compelling that when in a decade, century or millennium, we grasp it, we will say to each other, how could it have been otherwise? How could we have been blind for so long?

John Archibald Wheeler, Physicist

Cosmogony is normally the theoretical study of the creation of the universe not the material study of nuclear physics. Less than ten years after WWII the first books of nuclear physics were just being written by the same physicists that had exploded the atomic bombs. At that time they were basing their theories on the fifty year old plus physical cosmological based theory of electrons spinning around the proton-neutron nucleus of the atom like planets around the sun. It wasn't until many years later that the physical science of astrometry started to become the new astrophysics. Things like stellar cycles, stellar nucleosynthesis, supernova theory, black holes and neutron stars just started to be understood from physical observations.

When Shrii Shrii Ánandamúrti gave His dissertations on the composition of the atom in the early nineteen fifties there were no nuclear physicists in attendance. Certainly any engineers in attendance had not any idea what He was describing about the sum of some forces made of consciousness based five rudimental factors in centripetal and centrifugal motions inside the atom.

Thirty years before Microvita

To help the individual structure to maintain a balance between the exterior and interior forces the Cosmic Mind creates a sub-centre or individual mind within that structure. [The_Expansion_of_the_Microcosm.html](#) 1957[Microvita ?]

Even today, approximately seventy years later, modern observational based nuclear physicists are extremely skeptical to even think of the forces within the interior of atoms in any other way than the traditional classical viewpoint of the four forces of nature. They have ended up with what is known as a "particle zoo" of hundreds of particles and sub-particles and no common theory of the four forces; but giving much new material for their tens of thousands doctoral theses.

Students, devotees and theorists of Shrii Shrii Ánandamúrti's cosmogony have wondered why He waited nearly thirty years to give His microvita theory. He waited until the last approximately three years of dissertations before opening microvita theory to the world. But think about it for a minute. What if He described a point-like mass-less living entity

that worked with, controlled and created biological living structures, traveling on wavelengths and at the same time existed inside those atoms maybe for billions of years. Could they understand in the 1950's? It doesn't take much thinking to come to the answer.

To say that something is point-like is to make that false assumption that it is massless. This comes about because of the measuring constraint of classical physics. Current formulas require mass to calculate wavelength as a function of "critical circumference". Mass requires measurements of Planck length and Planck mass. Therefore any particle at a certain speed, place in space and having a certain defined mass contains a specified amount of so-called defined energy can be considered as massless. They consider that a universe of massless particles would have no size, no measurement standards and therefore no wavelength. Classical ideas do not consider Shrii Shrii Ánandamúrti's concept of point-like microvita.

Shrii Shrii Ánandamúrti never needed Planck's formulations to see and tell about the world that He intimately felt and intuitively saw. He did not study at universities but He understood the greatest secrets of space and microcosms that we cannot see. Some have said: "But He understood and used terms like electrons orbiting in atoms and even the word positrons". Yes, He did but you allow me to point out a couple relevant facts. The audience He was guiding those talks towards was very simple devotees having no understanding of technical terms like microcosmic centrifugal forces. He used commonly understood comparisons and allegories to bring devotional understanding to devotees. If you look further at the time of those discussions (usually in the 1950's) the first books on atomic energy were not even written, all these common understandings were from about fifty years previous and derived from the teaching of Copernicus and other ancients understandings of our universe. He talked about and respected the writing and teaching of many mathematicians and scientific persons but never needed their technical expertise in mathematics to derive the most elementary forces. Although He knew intimately of the powers and purpose of microvita in those early years, He waited until the very end of His tenure on this planet to open the modern world up to these qualifying and shifting ideas. The world was not ready in those years to comprehend concepts like intelligently designed algorithmically pre-programmed point-like living beings that had collective minds and carried quantum energy particles to create atoms and maintain our universe. Are you ready to understand, even now?

They are point-like, but they have structure. That structure is more idea-like than material. How can that be? They have not taken on energy to form the mass that classical physicists need to calculate.

What do they have? They have minds but collective.

They have duties that are designed and algorithmically pre-programmed. They travel waves but different in accordance with the primary programming towards evolutionary requirements (environmental). That is because as living beings (collective) they evolve differently than us. They have differently constructed mind stuff than we have. Resulting in practically egoless characteristics (no sense of I or I am) and an existential existence as collective.

When we talk about ‘forces’ in macrocosmic Saincara, we are not really talking about forces as we define them in the phenomenal world of senses. Although the translators in the early years used the word force, it was only because it was convenient to the translation. In Saincara there are no particles or atoms to act on as we have in the phenomenal world of relativity. There is only supreme ubiquitous consciousness and it is the only material cognitive cause of all actions of that stuff called consciousness. Therefore any actions on consciousness are described in terms of how that consciousness is being acted on and what does that acting.

The phenomenal world of atoms is a relative world of cause and effects and is an area with sensorial attributes. In atoms there are actual resultant forces and that have definite perceived attributes.⁴¹

When we look at forces we must remember that forces in Shrii Shrii Ánandamúrti’s description are not like forces to a scientist. He describes forces that are moving and changing in characteristic attributes from place to place within the creative structure of the universe. When the forces change structure (for example sattvaguña to tamoguña) they change names. The new name is only a description of how the force appears to be moving (or causing action) at a specific place in the overall picture of what He is describing. As a specific example, Puruśa’s (Cosmic Consciousness) energy (Prakrti) is named as sentient (Sattvaguña) force at the very start of the creation cycle (Shambhú).⁴² Prakrti as a binding principal continually dominates the Puruśa (cosmic consciousness) and slowly becomes

⁴¹ [Emerging attributes] The higher the frequency of the wave, the more numerous the points of pause, the greater the number of sam’ska’ras, and the cruder the expression. *Shakti_and_Its_Proper_Application.html* 1958

⁴² Therefore Prakrti, expressing Herself in the form of the resultant force due to which saiñcara starts, is sentient,, As the movement of Saiñcara proceeds further, sentient Prakrti is gradually transformed into the mutative principle owing to internal clash. *Saincara_and_Pranah.html* 1959

metamorphosed into the first ethereal factorial.⁴³ At the very end of the creative cycle (at Creatom point, in the newly created atom) Prakrti as a result of her continual increasing external pressure (static or tamoguña pressure) uses another name for that external pressure “bala”. This pressure (of Prakrti energy, bala) causes two different forces to appear⁴⁴, one centrifugal and one centripetal.

Forces description in atom

Notice these dissertations were *before microvita* was ever mentioned. Microvita is not a force; it is a controlling entity for the energies within the atom. The atom is no longer in the attribution-less area of Saincara. It is created (Creatom point) of relativity. Prakrti continues to decrease the intra-atomic spaces between atoms causing emerging secondary attributes of atoms (matter) to now appear. The *balancing control* of these energies in and between the atom(s) is the purview of microvita. They are intelligently designed algorithmically pre-programmed controlling entities. Here are synthetic spin forces (central) that force the five rudimental factors to form a nucleus (or nuclei) for the atom. We cannot call the two forces energy. These two forces develop a friction or ‘wear and tear’ internally within the atom (and larger structures). The solid factorial (of the five rudimental factors) creates a nucleus to maintain the structural solidarity of the atom (structure) whenever the centripetal spin force is the stronger.

Within the individual atom there are two local *resultant* forces and can be described as micro concentric, attractive and repulsive. They are local forces that when affected by Macrocosmic external force (tamoguña) can deteriorate the very atomic structure. Common names are fusion, degradation, quantum shift of state due to added or subtracted energy of various types, like heat etc. Shrii Shrii Ánandamúrti simply called it jadasphota of either slow or fast type and can be applied to any material structure atomic, organic or non-material.

The other forces are *emergent forces* with attributed effects. Meaning forces that develop and are not an original force of reaction developed within basic atom. Chemical affinity, E. charge, EM forces, friction and heat developed from inter-atomic compression, even certain field forces are emergent attributed forces not the original concentric

⁴³ the influence of one or the other aspect of Prakrti. Citta under the influence of static Prakrti gets cruder and at a later stage is transformed into the ethereal entity. *Saincara_and_Pranah.html 1959*

⁴⁴ As a result of this bala, two opposing forces develop, one centrifugal and the other centripetal in character. *Saincara_and_Pranah.html 1959*

forces. These emergent attributed forces are sense observable forces (at some level) but not the original forces of creation. They are attributes and observable as phenomenal changes in our relativistic world. Things like E charge, EM, chemical affinity and even fields are part of what Shrii Shrii Ánandamúrti describes as emergent attributes and happen in the phenomenal world only (not Saincara), as inter (between atoms) and intra (inside the atom) space is decreased due to the increasing binding of Macrocosmic external force of tamoguña.

About name changes

There are many different words for the always changing objects. Although, this can be very confusing to the scientist, and even more so when Shrii Shrii Ánandamúrti groups one concept together (here energy) and splits it to many actions and names. Although the two forces were not called energy, the mathematical difference between those two forces is known as an important resultant collective energy, generally call práña (energy). You see the atom is a material (or dead) physical object but with intelligent control. That very intelligent control entity microvita (later in its own separate evolving cycle) has a duty to create what we see as biological life. This same práña energy then has other names depending on its usage. When it is in strictly physical usages like when it is called práña energy or sometimes Indra as physical energy, “the mechanical energy, electrical energy, magnetic energy functions within the scope of matter”. When it is the controlling nuclei of the five rudimental factors within any composite body (here biological) it is called práñáh or “vital energy”. All energy evolves as a function of the environmental usage.

Balam

There is no such thing as energy at the beginning of the Saincara area of creation; it is much later in the creation of atoms that the word energy is used as balam. Even then (in atom creation) balam has many different names.

“A guña becomes balam when functioning within the scope of matter.”

Jaeva_Dharma_and_Bhagavata_Dharma.html 1971

Notice He did not say Balam is energy. Balam is a measurement of energy in the atom; just like foot-pounds is a measurement of energy movement. He used ‘guna’ because it also is a description of a binding force of the universal consciousness in Saincara. Guna is not the name of a

force or an amount of energy. What is actual energy? It is not a force. It is a measurement of objects movement in action from A to B. We measure it as work using many units, an example would be foot-pounds.

In describing 'bala' in previous works I described bala as gravity. That may not be precisely correct. Bala is a sum of the resultant of two opposing central forces.⁴⁵ Not just any two forces but to two opposing forces, one centrifugal and the other centripetal in character. One universal field force (Tamoguña) exerts pressure throughout creation. There the force putting external pressure is described as Macrocosmic and a static force called Tamoguña or Avidya Shakti. This happens in all spheres of creation. In some cases, where it happens and the sum resultant appears as energies sometime physical energies. At times it is called 'indra' a physical energy – i.e., the mechanical energy, electrical energy, magnetic energy. Generally otherwise it is just called práña. As a collective name of these external and internal forces is práña, or "energy". In the specific uses of biophysical energies (vital energies) or ten váyus he specifically calls the resultant of the two opposing forces in the structure práñáh.

Renaming the forces in atom

He actually appears to reverse the names of the forces from Saincara to the phenomenal world. [Macro] centrifugal force [Avidya' Shakti] Tamoguña becomes [micro] centripetal now [Vidya' Shakti].⁴⁶ But this is in naming only, because the direction of the force is from [Macro] centrifugal force to now [micro] centripetal. It is not that one Macro became one micro force. No, He says "*results in the creation*" meaning new attractive qualities, that is why He names it micro-centripetal in the atom.

Within the atom the micro-centripetal force is greater and known as the internal force of attraction. What is the strongest named force in the atomic construction by classical nuclear physics? It's called the 'strong force' or one of the four classic forces in the atom. But it is considered to be a local 'charge' force. In other words, in classical physics the 'strong force' in hadrons is strong due to a classical energy charge interaction

⁴⁵ As a result of this bala, two opposing forces develop, one centrifugal and the other centripetal in character. Saincara_and_Pranah.html 1959 A guña becomes balam [energy] when functioning within the scope of matter. Jaeva_Dharma_and_Bhagavata_Dharma.html 1971 The collective name of these external and internal forces is práña, or energy." Saincara_and_Pranah.html 1959

⁴⁶ This [Macro]centrifugal force of Saiñcara results in the creation of a [micro]centripetal force in material structure. The more the process of Saiñcara advances, the greater its momentum, and the stronger the internal force of attraction within the structure. Struggle_and_Progress.html 1958

between quarks and mediated by specific type bosons within the atomic structure.

In Shrii Shrii Ánandamúrti's atomic theory atoms are created due to action/reactions of micro centripetal/centrifugal binding of the five rudimental factors and the microvita imbibing and controlling that energy in the atomic structure.

The great difference in theories is that in classical atomic theory the strong force is energy charge interaction between quarks and mediated by specific type bosons. In microvita atomic theory the strong force is the resultant of the micro-centripetal *attractive* force that holds the atomic structure together.

Microvita within the atom has a very different duty. Microvita within the atom acts similar to what are currently described as gauge bosons, in that they carry energy but they carry energy between the five rudimental factors. These factors are the five nuclei with determine the attributes of the atomic structure. They do not bind the five rudimental factors together. Microvita are the intelligently designed algorithmically pre-programmed sub-assembling controlling entities that simply balance the energies between these five nuclei in accordance with their programming for the environmental condition in which they are being used. This is what we sense as the classical attributes of protium.

The strong force in the atom

Now that we have determined the correct names of the most powerful strong force in the atom. We saw that the strong force in matter (atoms) is what Shrii Shrii Ánandamúrti calls micro-centripetal force and it is the attractive 'strong force' (or Yukawa potential force) He terms as Vidya' Shakti or His micro-centripetal force. The strong force is *local in nature* (same as 'strong force' in classical physics) vidya' shakti attractive, interial acting, centripetal, the reaction of the ubiquitous Macrocosmic binding tamoguña in the atom. Actually it is strong only in the sense that it is keeping the material; solid factor together, like the so-called 'strong force' does in the classical atom and attractive in the same material sense because it is towards the atomic nucleus. There is another non-material wave force that is called [intra atomic affinity](#) that we will discuss later; that also is attractive.

This means in Shrii Shrii Ánandamúrti's terms that there are only two forces in the phenomenal world the strong force micro-centripetal force and the micro-centrifugal strong repulsive force.

Actually speaking, motion is the result of internal impulse [repulsive explosive] or external attraction [pull], or both simultaneously. *Matter_and_Spirit.html 1956*

Forces and not forces

We have *forces* within our phenomenal world of space-time but there are *not forces* in the creative dimension of Saincara. Saincara is description a deteriorating condition of cosmic consciousness and how it eventually becomes matter as atoms. Yes it does describe consciousness as particulate⁴⁷ but that is only in the final states where the solid factor becomes one of the five rudimental factors in Macrocosmic Citta area. In the other two areas Cosmic Mahat and Cosmic Aham space-time also as we know it, does not exist. Sensorial attributes do not exist. Remember Shiva/Puruṣa (Cosmic Consciousness) previously exists as an all pervading consciousness, as a wave-form of nearly infinite length powering the entire universe. Here consciousness is not particulate but becomes particulate through the process of svarūpa pariñāma (wave degradation) until at the very end of the process it becomes particulate and combines with the other items (including the controlling microvita) to create atoms (matter) through standard implosion theory.

Philosophically we can say that consciousness is acted upon but that is a by-process called a binding principle or ‘guna’. That is *not a force* as we know it in physics. It is merely a description of a binding process (compression and increasing internal friction) that happens to consciousness where it is compressed closer together. Consciousness waves are now shorter and being closer together they have more chance of internal friction. Internal friction and shorter wavelength cause what we see as emerging attributes, color form and even radiation etc. In an interpreter’s terms, guna is binding the waveform of consciousness in the overall process of consciousness becoming matter. It is not a ‘force’ in a non-material world⁴⁸. Shrii Shrii Ānandamūrti used the word Shakti to name these bindings. Shakti in the larger sense means energy. This is how he describes the binding process of consciousness when deteriorating towards becoming dormant (as in the atomic structure). That consciousness is in the [Macro] centrifugal process of binding Prakrti and is given the name Bala in Saincara here:

In the process of centrifugal movement in Saiñcara, the material body composed of five fundamental factors comes into being. But even after that stage, the static Prakrti

⁴⁷ The five fundamental factors – ethereal, aerial, luminous, liquid and solid – are the sequential metamorphoses of these energy particles, *Vibration_Form_and_Colour.html 1956*

⁴⁸ when Prakrti lies dormant, and the process of evolution is unborn, there is no friction because the fundamental factors have not yet come into being. The factor in which the degree of friction becomes extreme is the solid factor. *Struggle_and_Progress.html 1958*

[Tamoguña] exerts her crudifying force. This external pressure from static Prakrti is known as bala. *Concept_of_Gunabhivyakti_and_Jadasphota.html* 1969

The changing names of forces

In Saincara, centrifugal (which normally in physics means non centre-seeking, eccentric, repelling force or external force (with fissiparous tendency) is called a process of “Avidya” (the A means not or against), because it is a process where consciousness is going away from the cosmic consciousness center and the five rudimental factors are being compressed. Shrii Shrii Ánandamúrti describes Macrocosmic Saincara in terms of the cosmic consciousness as the center of everything, unless He specifically mentions a material center, like in an atom. In conclusion we don’t really have a physics of forces per se in Saincara but binding principles involved in causing consciousness to take the material shape. Here we term [Macro] centrifugal force [Avidya’ Shakti] as a ubiquitous field force with a continuous overall tamoguña type static binding.

Here Shrii Shrii Ánandamúrti states that that same [Macro] centrifugal force [Avidya’ Shakti] in Saincara results/becomes a [micro] centripetal [Vidya’ Shakti] force in atoms.⁴⁹

As is typical in Sanskrit, when anything or object changes usage, then the name is changed.

For example, in the early area of Saincara, Guña is known as a “binding principle”.⁵⁰ Not as energy or force but a principle that causes different effects in different parts of the creative universe. As the participants within Saincara proceed through the process of svarúpa parináma (sequential metamorphosis or homomorphic evolution), philosophically in physics we would say that consciousness in Saincara (as a high amplitude almost infinite length waveform) (Shiva/Puruśa) becomes degraded slowly (by waveform clashes, internal friction). This

⁴⁹ This [Macro]centrifugal force of Saincara results in the creation of a [micro]centripetal force in material structure. The more the process of Saincara advances, the greater its momentum, and the stronger the internal force of attraction within the structure. *Struggle_and_Progress.html* 1958

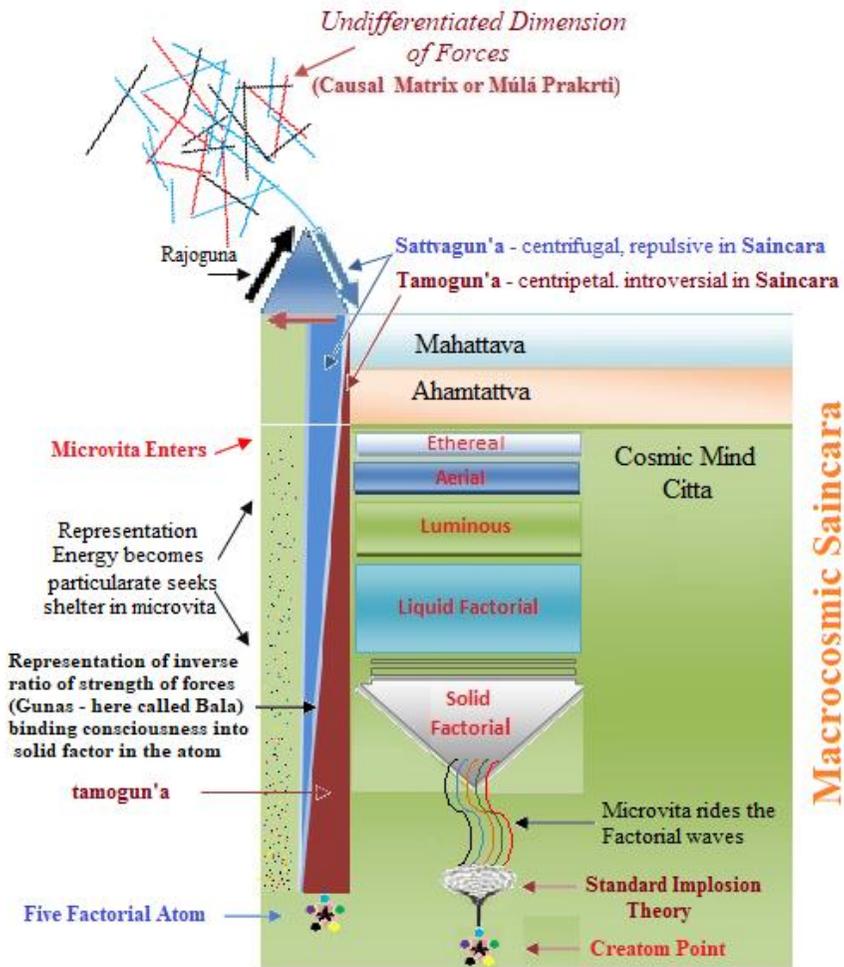
⁵⁰Prakrti is a principle of Puruśa and She is always so intimately bound up with him that it is impossible to separate the two. They are inseparable like fire and its burning property. *What_Is_the_Cosmic_Entity.html* 1955

The atoms of energy or Shaktikañá’s that are generally regarded as the fundamental essence of the created world are not really Shakti in the above sense; they are compound of Shiva (Consciousness) and Prakṛta-Shakti (the binding force). *Matter_and_Spirit.html* 1956

could be considered a type of binding of the waveform. In the original release of the wave from the cosmic matrix at the beginning of creation we could consider the most unbound state to be called sattva (very forceful or active). A more heavy state of binding of this sattva state would be considered a tamoguna binding of the guna or tamoguna. This is the sequential changing of the participant (here cosmic consciousness) to a fully bound state in the atomic material world.

Cycle of Forces into Matter

Cycle of Forces into Matter



Pictorial Representation of the Forces becoming Matter

This is the blown up area of the standard Macrocosmic Creation simulation from the point of origin (Causal Matrix); where the Cosmic Consciousness as Shiva/Puruśa a Macrocosmic force of consciousness passes through the area of homomorphic evolution (Saincara) eventually becoming particulate before flowing into the implosion process. This entire process is explained in detail in other works.⁵¹

In order to understand forces that we cannot sense, we must resort to a sort of philosophical representation. Philosophically terms like Shiva/Puruśa (Cosmic Consciousness) and Prakrti (energy) have been used to represent the topics of consciousness and energy the unseen area of creation within the Cosmic Mind. The two were described as irrevocably intertwined like two sides of one paper and various other descriptions. Subjectively and philosophically speaking there is two objects. Objectively speaking there is only one object consciousness. Energy (or dark energy with no attributes at this point in creation) is really not an object. It is a description of the amount (as we measure work) of the displacement of an object in space. Except there is no person (for measurement) as the only aspect of person is microvita and is just appearing. Therefore even time for measurement does not exist here in Saincara.

For these reasons the forces are described as binding consciousness with different strengths at different locations in the cosmic cycle. At the very beginning within the Undifferentiated Dimension all force (including consciousness undifferentiated) seeks the simplest shape, a triangle. The strongest force (sattvaguña) breaks out of the vertex (sometimes described as conex) as an ultra powerful energy/consciousness in what is described as a practically straight (probably solid like) line.⁵² With energy it slowly pulls consciousness until its strong waveform and eventually, slowly becomes particulate. The reason the waveform degenerates through the process of svarūpa parińāma, or homomorphic evolution is that interaction between waves causes friction.

Generally we could say it factorializes or particulates into heavier and heavier groups of particles. The most condensed of these particles could be called solid matter except for one thing; there is no control structure. That is when the final stages of matter construction come into play.

⁵¹ Bates, Raymond, Macrogenesis, A New Paradigm in Consciousness, E-edition, April 2016,

⁵² Likewise, when shambhú becomes manifested – that is, when it is transformed into bhaerava, it moves with tremendous speed in a straight line.

The Cosmic Mind injects the final ingredient into the construction of matter. Microvita. In other works the constituents of microvita are fully explained.⁵³ Microvita are intelligently designed algorithmically pre-programmed sub-assembling algorithms that specifically have the ability to control and regulate atoms of matter. This is all in an area of superluminal (FTL) speeds and dark energy. Quanta of microvita carry small packets of dark energy and mix with the rudimental factorial wavicles into standard implosion theory to construct the first atoms protium. This is the end of the top-down evolution of cosmic consciousness into matter. The consciousness in every atom is in everything and every one of us. It has been moglified and compacted until it is a solid and dormant structure that is being stabilized and controlled as atoms for billions of years. Atomic consciousness as a fundamental part of our universe does not evolve by itself. Ordinary atoms are dormant/dead in this sense of an individual consciousness structure.

If one could philosophically put consciousness into three basic classifications, then the dead dormant consciousness within the material part of the atom would be one type, certainly not a type we could normally consider as consciousness. But our material body and every atom of our universe consist of the same atoms.

Since we are generally and philosophically labeling types of consciousness we must consider the other type of consciousness within the two basic parts of the atom. Microvitic consciousness is collective type consciousness that has the control function within the atom. The specifics of the type of collective consciousness is described in detail in other works⁵⁴. It is also described by Shrii Shrii Ánandamúrti as a “living entity”⁵⁵ that controls and uses energies throughout the universe. “Living” in this sense is very qualified and not in the sense we normally consider as diversely and independently alive. It has very specific cuties, functions and psycho spiritual goals.

The third general type of consciousness is the type we generally associate with animate and alive, including our type of unit consciousness.

This does not by any means mean that these types are basically different from that the consciousness of the Cosmic Mind. They are all the

⁵³ Bates, Raymond, [The Microvitic Atom, Microvita Sub-structures in the Atom](#), July 2016.

⁵⁴ Bates, Raymond, [The Microvitic Atom, Microvita Sub-structures in the Atom](#), July 2016.

⁵⁵ These living creatures with their mysterious movement create minds and bodies, living bodies in different celestial bodies and they also destroy minds and physical bodies, or developed or undeveloped corpora, in any corner of this universe. So the root cause of life is not the unicellular protozoa or unit protoplasmic cell, but this unit microvium.

Microvium_the_Mysterious_Emanation_of_Cosmic_Factor.html

same, only the usage, connection to that cosmic mind and what we could call ‘the apparent evolution’ of mind makes them appear different.

The cycle consciousness does not stop in the atom.

Characteristics of energy

At the quantum level, we find properties of mass, charge and spin that are given properties of the universe lacking cause or explanation. Dirk K. F. Meijer, Physicist⁵⁶

One of the clearest explanations of the ongoing dichotomy of conflict between modern classical method of understanding science and the metaphysical method is that of looking at the effects or ‘observing the phenomena’ and describing the effects in terms of physical observational detail. This comes to a head in the observation of the forces in the atom. Here is a typical example of observational science:

“The strong interaction is observable at two ranges and mediated by two force carriers... i.e gluons & mesons. This property of the strong force is called color confinement, and it prevents the free "emission" of the strong force:”
https://en.wikipedia.org/wiki/Strong_interaction

This brings the concept to mind of millions of colored miniature ‘Bucky-balls’ (gluons) running around inside the atom carrying glue to hold it together. Typical “observation of phenomena”, not exactly a description of how and why things work. Scientists spend a lifetime of observing TV and football games and create some hyper-theoretical theory that sounds like a game of balls being glued together by colored teams with one quarterback throwing the glued ball back and forth. Maybe the next obvious step is to glue the teams together to make molecules?

A deeper understanding does not come from physical observation of the effects. It comes from understanding how and why the causes of those apparent effects. If you understand the how and the why of the forces and energies in the atom, then what is the need of observing the effects? Effects become obvious and no need for observation.

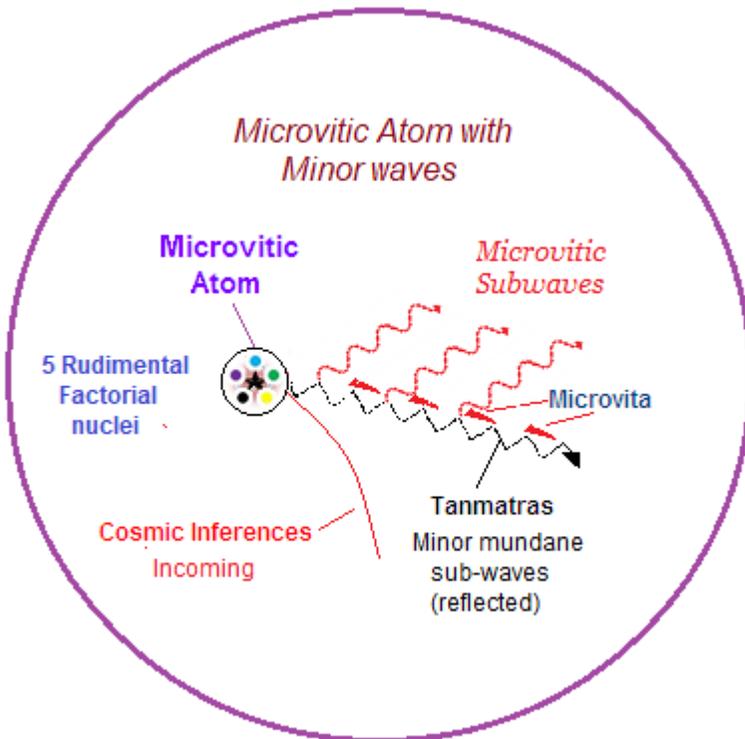
⁵⁶ Dirk K. F. Meijer and Simon Raggett, *Quantum Physics in Consciousness*, P.29

Energy

“Energy is not one of the fundamental factors, but a stage prior to the metamorphosis of the Cosmic Citta into the five fundamental factors.” *Shakti_and_Its_Proper_Application.html 1958*

Energy is the characteristic of Prakrti given to Puruśa (as consciousness) when consciousness becomes bound or made static. This is why matter is called bottled up energy.⁵⁷ Energy is moglified consciousness bound so tightly it appears static. In this form it can reflect or refract minute waveforms we call tanmátras. Energy is: “The collective name of these exterior and interial forces is práña, or energy.”

Tanmátras are in themselves not matter, consciousness nor are they energy. They are only the partial waveform reflection/refractions of the five rudimental factors composing phenomenal matter. They have a very important part in conveying the fundamental qualities of the five rudimental factors to our unit minds. Tanma'tras are waves in the phenomenal universe and therefore can carry microvita that are attracted and pass through these five different basic tanma'tric inferences. This is only one of the ways that microvita move from place to place.



⁵⁷ but the basic cause of matter is nothing but energy, matter is nothing but bottled-up energy. *Matter_and_Spirit.html 1956*

Energy is the displacement of an object from A to B. Microvita when dropping speed from supraliminal speeds to phenomenal speed increases their frequency and in doing so collects quantum of energy. Microvita are collective and can carry larger quantum of energy when traveling from place to place on tanma'tric waves and are easily guided to the correct locations because microvita are attracted to particular sense vibrations. Microvita group together with collective mind and have intelligently designed algorithmically pre-programmed sub-assembling algorithms to do certain functions. Their energy causes change, in material and mental structures.

Energy also has metamorphic stages that eventually manifests to our senses in the material world. One of the ways energy appears to our senses is as lighting through the third luminous factor. The more abstract form of energy is called gun'as or form? ⁵⁸ ⁵⁹ We never sense energy itself, only the actional displacement of object from A to B that appears as energy. There are three general classifications of energy are called tama, raja and sattva. They are graphically described as different positions on a vibration curve waveform. Energy is described as systolic. Much the same way photon energy is described by physics today. It moves in definite spurts, much like particles appear to move verses waves.

Energy needs structure to contain it⁶⁰. Excess energy causes change in structure, and then the structure cannot absorb the amount of kinetic energy and the structure changes. Therefore, all life forms when impacted with sufficient negative changing microvita, will change physical structure. The controlling microvita adapts the new structure in accordance with the environmental needs. In other words water changes to steam due to environmental temperature change. The structure of the energy within the molecule changes to where more energy is being held/controlled through the ariel factor and less through the liquid factor,

⁵⁸ Energy always requires a material shelter – a container. After the destruction of the container, the immense released energy moves very fast with tremendous speed in all directions in search of some or other material shelter. Finally, it finds a way in some country, in some human physical body, in structures and other material objects scattered around, or in the ocean, etc. Matter needs a shelter, and the shelter of matter is the earth. **This is the secret.** *Microvita_and_Cosmology.html* June 1989

⁵⁹ A guña becomes balam [energy] when functioning within the scope of matter. *Jaeva_Dharma_and_Bhagavata_Dharma.html* 1971

⁶⁰ Energy is the actional state within a material structure.

Cardinal_Spirit_Action_and_the_Supreme_Stance_of_Devotion.html 1968

There is no overall change in the total amount of energy unless a chemical change occurs like a valance change or sharing energies. Vibrational net change, affects the emergent attributes like shape and color, not the energy.

Shrii Shrii Ānandamūrti has been very specific, the definition of energy is very specific to the duty and place where it is observed. Philosophically the sphere of original energy manifestation during the emergence of energy with cosmic consciousness Shiva/Puruśa in Saincara, it is known as “balam”.

A guña becomes balam [energy] when functioning within the scope of matter.
Jaeva_Dharma_and_Bhagavata_Dharma.html 1971

“What we call energy (Shakti) in the relative world is not synonymous with Prakrti. Shakti is created at an earlier stage (in Saiñcara) due to the influence of the Operative Principle (Prakrti) on the Cognitive Principle (Puruśa).”
The_Highest_Category_of_Devotion.html 1957

Within the unit structure of atom, bala or external pressure is *the measurement* of energy. Bala as energy is the resultant of the sum of the two basic opposing forces within the atom.⁶¹

And in the phenomenal world of relativity He uses the word indra:

Indra, i.e., the energy – the mechanical energy, electrical energy, magnetic energy – will have to do according to a certain system, certain law.

Physical definition of energy is action within a structure.

In the physical sphere energy is essential for action. What is energy? Energy is the actional state within a material structure. This energy by itself is a blind force and for its activation intellect must exist: a driver is required to direct this blind force.
Cardinal_Spirit_Action_and_the_Supreme_Stance_of_Devotion.html 1968

In other words, energy varies and is called different names in accordance with the usage. Energy is always the same and invisible but emerges (it is always co-combined with Shiva consciousness) and is observed as per it action.

Ordinary energy – práña

⁶¹ As a result of this bala, two opposing forces develop, one centrifugal and the other centripetal in character. *Saincara_and_Pranah.html 1959*

Sometimes called indra' it is physical energy – i.e., the mechanical energy, electrical energy, magnetic energy, in the material world. It is released from container to container (other structures) and during jadasphota.

prāña - “The collective name of these external and internal forces is **prāña**, or energy.” *Saincara_and_Pranah.html 1959*

Dark energy

Dark energy as a part of our material world that manifests itself as ordinary energy within the atom. ⁶² It is free energy with *no attributes* that is captured by the microvita in the atom construction. It is the energy portion held within the structure of the atom by microvita and used for balancing the basic structure in all phases of nucleosynthesis.

These are its specific characteristics of dark energy:

- Interacting with ordinary matter in only specific cases
- Ubiquitous throughout the universe
- Point-like and carries energy (remember *ALL* energy must have container; even dark energy)
- Adapts to temperature and environment (dark energy is very cold)
- Collective (dark energy known to collect in areas)

Citishakti

Citishakti is a reactive sentient force throughout its entire existence. Within Saincara it appears irrevocably combined with Shiva (Cosmic Consciousness) as Prākṛta Shakti energy. It is a sentient as sattvaguña exits from the causal matrix.⁶³ It has many names depending on its environmental function.⁶⁴ It is the force of consciousness⁶⁵

⁶² Bates, Raymond, [Microcosmology, A New Paradigm of Relativity](#), July 2017

Chap 2 Dark energy

⁶³ [In the Cosmic Matrix] You know, whether there is any expression or not, in the Cosmic Citishakti there is a never-ending flow. That flow has no curvature. It moves on just like a straight line. *Jaeva_Dharma_and_Bhagavata_Dharma.html 1971*

⁶⁴ The other name of the ātman besides Citishakti are; Puruṣa, Caetanya and Shiva. *Some_Questions_and_Answers_on_Ananda_Marga_Philosophy_A.html 1957*

irrevocably bound by Shakti within Shiva's consciousness. Since it is bound in Shiva it is a reactionary repulsive (Cosmically attractive) force of microcosmic centrifugal and becomes the microcentrifugal pent-up energy in the factorial structure in the atom that explosively expands into the cosmos when the atom experiences jadasphota. It is the quiescent force within the five fundamental factors in the atom. So in the final phase of matter jadasphota it is this Vidya' Shakti force that is the final reactive force that releases the Shiva consciousness from the five rudimental factors.

Práñáh – vital energy

In a living celestial body, the existing congenial environment will cause transformation of práña [general energy] into práñáh. [Vital energy (práñáh) the ten váyus]

Concept_of_Gunabhivyakti_and_Jadasphota.html

Even if the resultant interial be the winning factor in práña, the physical structure will split up into innumerable subtler particles if the atmospherical condition be not congenial to the expression of the vital energy [práñáh].

Concept_of_Gunabhivyakti_and_Jadasphota.html 1969

General characteristics of energy

Microvita had not been introduced in 1956. Energy had been introduced as bottled up energies⁶⁶ because He had described atoms as consisting of condensed particles of energy and consciousness with no discussion of how matter was created. With the introduction of microvita in 1986 He wanted to show a whole new way of thinking had to be made. Ideas had to be changed along with concepts and new words made. Now the atom consisted of an additional factor of a living entity microvita. Microvita is the constructor and maintainer of the phenomenal world. This opened up a whole new line of thinking of how the cognitive universe works. The traditional ideas of matter and its creation had to be modified to include the creator of matter, microvita and how it was created.

We will not go into the philosophical discussion of why “Doer I” or Kṛta Puruśa (Microvita) and why “Knower I” or Jñā (know) Puruśa is Energy. This has somewhat been discussed in previous works.⁶⁷ For the

⁶⁵ the átman attracts the mind towards itself like a magnet - is called citishakti or force of consciousness the – *Some Questions and Answers on Ananda Marga Philosophy A.html 1957*

⁶⁶ ...but the basic cause of matter is nothing but energy, matter is nothing but bottled-up energy. *Matter_and_Spirit.html 1956*

⁶⁷ Bates, Raymond, The Microvitic Atom, Microvita Sub-structures in the Atom, July 2016.

purpose of a discussion of attributes, we need to be concerned only with the parts of the dissertation where He gave us the actual composition of protium atom of which energy is an important part.

These are the **characteristics of energy** as Shrii Shrii Ánandamúrti describes them. There are very few emergent attributes that can be sensed, except those that are actional.

No intelligence - No consciousness

The basis for all energies is Citishakti a separable part of the Cosmic Consciousness represented by Shiva. Shiva as such contains all the consciousness. Both become particulate and systaltic in Saincara.

Invisible⁶⁸

inter-transmutable and interchangeable⁶⁹

Energy undergoes metamorphous in the direction of matter. It has no intelligence for vice versa metamorphous.

systaltic^{70 71}

particulated^{72 73}

adapts to different environmental containers

carried by microvita and on waveforms

From dark energy adhering to microvita, energy progresses. indra' a physical energy – i.e., the mechanical energy, electrical energy, magnetic energy, in the material world.

requires a container⁷⁴

explosive

cohesion⁷⁵

⁶⁸ Any energy is invisible. We see the operation and action of ...energy.

Even_MiddleMen_Differ.html 1978

⁶⁹ Now, energy is inter-transmutable and interchangeable, but matter is not inter-transmutable or interchangeable. It undergoes metamorphosis, metamorphosis once, but not always; that is, one way but not vice versa. *Matter and abstract.html* 1989

⁷⁰ In the case of the movement of negative microvita, the movement is always of systaltic or angular nature and never of circular nature. *Mobility_and_Movement_of_Microvita.html* 1988 (English)

⁷¹ Thus, every action is systaltic. *The_Laws_of_Social_Dynamics.html* 1967

⁷² There is an aura of thought-waves revolving around the Cosmic Nucleus or Puruśottama, the nucleus of the Saguña Brahma, as the result of which energy particles are created. *Vibration_Form_and_Colour.html* 1956

⁷³ The five fundamental factors – ethereal, aerial, luminous, liquid and solid – are the sequential metamorphoses of these energy particles, *Vibration_Form_and_Colour.html* 1956

⁷⁴ The energy remains and maintains the structural solidarity of each and every entity of this universe by taking the form of its container according to the structural solidarity of the different entities. *Energy_and_Cognition.html* 1978

⁷⁵ You know, when energy is all of a sudden released, its movement is just like a straight line, and after that it acquires curvature due to clash and cohesion. *The_Supreme_Cognition.html* 1966

Energy is of cohesive nature, explosively always goes unidirectionally from one container to another when released, even when enclosed in centrifugal structures.

Energy is not fundamental factor⁷⁶

energy is “Knower I”(not matter)⁷⁷

matter is “known I”,^{78 79}

matter is not bottled up energy⁸⁰

energy is not mass in matter⁸¹

Specifically restated, energy is not mass nor matter

Prakṛti is a principle or a unique energy or force of Puruṣa (Consciousness) and that She also qualifies Puruṣa. Prakṛti is a principle of Puruṣa and She is always so intimately bound up with him that it is impossible to separate the two. They are inseparable like fire and its burning property. What_Is_the_Cosmic_Entity.html 1955

Statistical characteristics of ordinary energy

If one were to think of the relevancy of the above statements in statistical analysis manner in relation to the cosmos; then consider how very little of all ordinary pranic energy is needed to supply energy to maintain the biological only structures in our universe. Dark energy and dark matter represent 96% of the known universe. (73 % is dark energy and 23 % is dark matter)

Of the 4% balance, the interstellar medium is roughly 90% protium and 9% helium and 1% elements heavier than protium or helium. This means that about 99% of known matter in space consists of protium or its direct descendant helium⁸². Biological usage of ordinary pranic energies is *almost miniscule* of that small percent. The supernova release of *ordinary energy* is sufficient to fuel normal nucleosynthesis process of our small observed percent of the entire cosmos.

⁷⁶ Energy is not one of the fundamental factors, but a stage prior to the metamorphosis of the Cosmic Citta into the five fundamental factors. *Shakti_and_Its_Proper_Application.html 1958*

⁷⁷ Jīṇa Puruṣa (know) is Energy. See *Matter_and_Abstract.html 1989*

⁷⁸ So matter is not bottled-up energy – it is “known I” in the cosmic arena, in the arena of the cosmos. *Matter_and_Abstract.html 1989*

⁷⁹ Energy, if it comes in direct contact with this world of physicality, is converted into so many energies – magnetic energy, electrical energy and many other energies. And when that very energy functions through the cosmic “known” world [of atoms and relativity], the Cosmic “Known” Entity, then it creates different psychic faculties, different psychic worlds. And if after passing through the Cosmic “Known” Entity it comes down towards the plane of cosmic or individual propensities, its movement is towards the crude, towards crudification. *Matter_and_Abstract.html 1989*

⁸⁰ So matter is not bottled-up energy -. *Matter_and_Abstract.html 1989*

⁸¹ The mass of matter has got nothing to do with energy. *Matter_and_Abstract.html 1989*

⁸² MS Encarta 2002

Energy structures and evolution

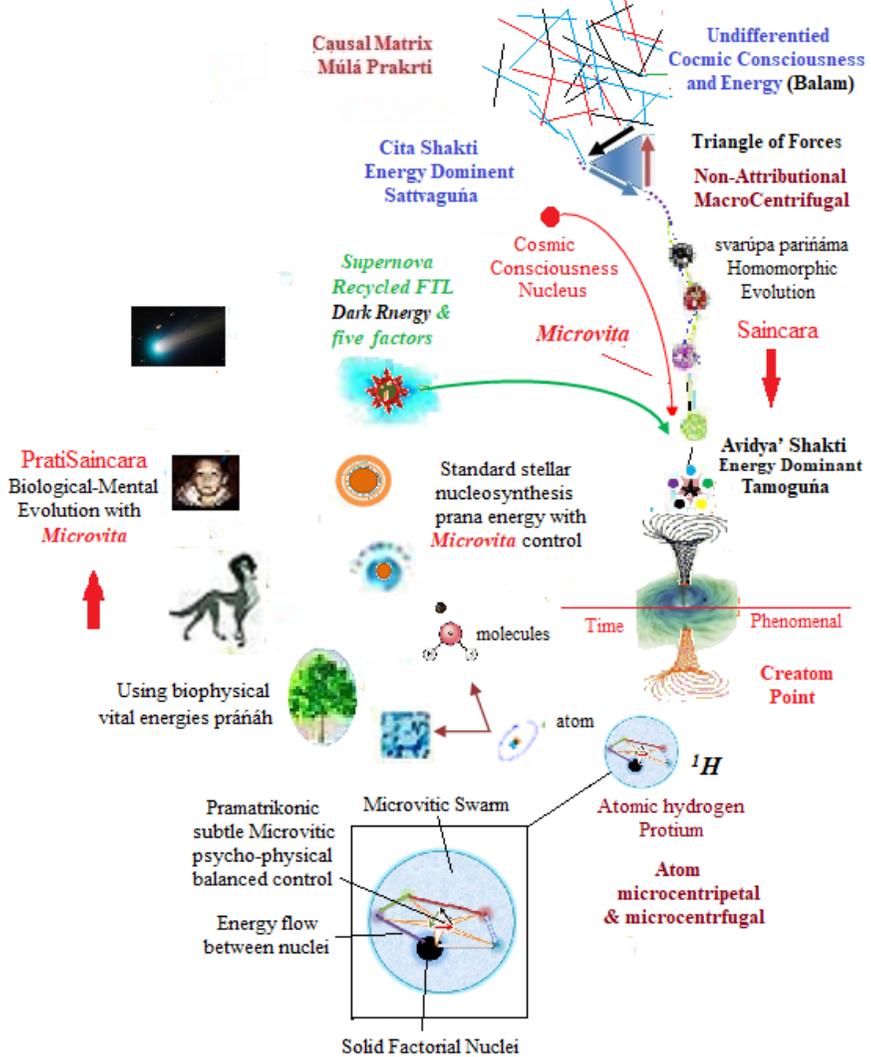
In the physical sphere change is the order of existence. In the psychic sphere, there is change in the collective structure, but because that change maintains a link with the cosmological order, with cosmic conation, it is not so prominent as that of the physical sphere. *The_Poles_Shift_Their_Respective_Positions.html 1986*

Energy appears to change because it always requires a structure. The structure can be material or mental. It changes in accordance with its location in the energy cycle. Here is a drawing below of the cycle of energy. In the beginning at the causal matrix it is undifferentiated and unstructured and called balam. As it forms the most basic structure as the triangle of forces, it then proceeds through the homographic evolution structures now called Saincara. Eventually it becomes particularized as dark energy before it is captured by microvita and merges through standard implosion process into the primeval protium atoms.

In the atom, the energies are controlled by microvita using pramatrionic subtle psycho-physical balanced control, to balance the energy control between the five rudimental factorial nuclei. At this creatom point the nucleus is within the phenomenal world of relativity. Depending of the environmental conditions the protium atom can either proceed on the standard nucleosynthesis path of elements or it can combine as molecules and eventually take the path of pratisaincara and biological development.

Energy always follows the structure. Biological structures can evolve into mental structures and eventual possible spiritual evolution. Physical atomic and biological structures are subject to jadasphota either fast or slow as deterioration and wear and tear. Both can recycle the ordinary energies back into other structures.

Energy Cycles in the Universe



Evolution of Energy Cycles

In each and every physical and psychic structure there remain certain self-controlling faculties. *Four_Dimensions_of_Micropsychic_Longing.html* May 1987 English

There are many different types of ordinary structures. Atoms normally are a closed energy structure. Others are molecular, biological and non-material wave structures (normally mental),

We saw above that energy is inter-transmutable and interchangeable. Dark energy is the original control energy in atoms at the creatom point. Microvita brings dark energy into the protium atom. It

is a closed structure using the dark energy to keep the atomic structure maintained for it millennia long life. Atoms have two paths of evolution from the creatom point. Either they can continue along the path of nucleosynthesis or they can evolve biologically and then mentally in the pratisaincara side structure. But remember their attributes are constantly increasing. As they evolve additional attributes they then can interact with other atoms in molecular ways. Ordinary energy between the individual atoms is inter-transmutable and interchangeable with the lesser ordinary prána energy, forming bonds with other molecules.

If the molecule continues evolving in a biological manner then the ordinary prána energy can be converted to pránáh (life) energies if the proper environmental conditions are observed. If not then the atoms will proceed on the ordinary nucleosynthesis manner. In either case microvita will continue balancing the atomic structure (even combined structures).

In the event that the molecular structure obtains life using pránáh, like in lower levels of plant-life energies; microvita remains within the molecular atom structure. The life intelligence maintains the plant structure in accordance with the four needs of life. The attracted mental based *ectoplasm* maintains the greater biological structures until ordinary evolution develops a complicated structure, at which point external evolved microvita combines to form an *endoplasmic* structure to assist the life in its further evolvment process. Microvita are energy carriers in all phases of cosmic evolution. The intelligence aspect of life is a separate process from the microvita usage. Microvita evolves separately.

About Energy as Mass

Energy in matter before Microvita 1956

... matter is nothing but energy, matter is nothing but bottled-up energy. It is the condensed state of the particles of energy [Citishakti] that we call matter.

Matter_and_Spirit.html 1956

The atoms of energy or Shaktikaña's that are generally regarded as the fundamental essence of the created world are not really Shakti in the above sense; they are compound of Shiva (Consciousness) and Prákṛta-Shakti [Citishakti].

Matter_and_Spirit.html 1956

Energy in matter with Microvita 1989

Some intellectuals are of the opinion that matter is bottled-up energy. No, matter is not bottled-up energy. The characteristics and different wons and specialties of energy are quite different from those of matter. The mass of matter has got nothing to do with energy.

Matter_and_Abstract.html 1989

Why is this so important? Why did He in 1956 say matter was bottled up energy and in 1989 He said matter is not bottled up energy? Because microvita had not been introduced in the actual construction of atoms and all matter.

Then He said about new terminology:

So matter is not bottled-up energy – it is “known I” in the cosmic arena, in the arena of the cosmos. Matter_and_Abstract.html 1989

What is “known” I ?

...and the “known” portion or the “known” counterpart [of “done or physical] is the psychic and psycho-spiritual worlds. Matter_and_Abstract.html 1989

Similarly, a microvita, although it is initially the “doer” portion of the cosmic arena, if it passes through the expressed world of “done” [physical], then it may create something good or something bad in the universe. Matter_and_Abstract.html 1989

Therefore The “Doer I” portion for microvita is the psychic and psycho-spiritual world of creation and the “Done I” world for microvita is the phenomenal or physical objective universe.

Because He says in His last dissertation:

This is a new line of thinking – a new philosophical approach. Here “knower I” or “doer I” are not necessarily the mahat, aham or citta of philosophy. It is a new school of philosophical thought – it has no connection with mahat, aham and citta. Microvita_and_Cosmology.html 1989

About mass

One of the most important classical constituents of matter is what is referred by all as energy that in turn is measurably constructed equivalent to mass. Unfortunately no two individuals will understand or define energy the same. To a scientist mass will vary in different instances being either moving mass or resting mass. Mass increases or decreases do to the speed relative to the speed of light and is based by classical laws of physics or so-called energy. Shrii Shrii Ánandamúrti’s has very different definitions.

*The mass of matter has got nothing to do with energy.
Matter_and_Abstract.html 1989*

Relating to the mass of the atom

To see the action and activity of mass, within the nuclear mass of the solid factor, we have to look at a greater concept and consider the

relative strength of the nucleus of a protium atom with every atom in a neutron star.

Currently we know many things about neutron stars. These are massive stars that have gone through the standard stellar process and the last process of explosions and collapse. What is left is a neutron star. This was because their resultant mass was below the Chandrasekhar threshold size of 1.2- 1.5 solar masses. Here the resultant neutron star mass was insufficient to collapse further into a violent or supernova explosion. They remain as neutrons stripped of all electrons and compressed to a space of just over 1.5 angstroms apart.

Now we can also measure the mass of the star and we can see the spin measured in sometimes thousands per second. The centripetal force generated by this spinning mass could be calculated and we know that the closer the intra-molecular space, then the faster the spin, the greater the generated over all energy. The external force generated by that fast of spinning huge mass is tremendous.

Normally we do not think of gravity except as a weak action over long distances because that is the way our senses tell us to think. It wasn't until we discovered the remnants of collapsed neutron stars that we were able to find fast spinning collapsed neutron stars.

Shrii Shrii Ānandamūrti told us the answer to the forces in the atom about sixty years ago. But until we could free ourselves of our classical thinking, we could not believe it. How can any nucleus or nuclei in the center of an atom be so dense and spin so fast as to be interial in force and its generated forces still hold the atom together?

What is the name of the force/energy holding those very neutron-nucleons together? Is it bosons, quarks, etherons, gravitons or even a strong force?

We may call it gravity but we never think of gravity in that manner because we only consider that it is a very weak force that acts in accordance with the inverse square of the distance between large objects. Gravity could never hold that mass of super fast spinning neutrons of collapsed neutron stars together.

Microvita does not hold the nuclei together. Microvita are massless and are within each atom to control the interactions of the energy within the atom and the exto- inter-actions among other atoms

It appears that the dominant centripetal force holds the individual atom together because the five rudimental factors are so dense and they can be held together by microcentripetal force and not gluons.

There is another force. There is an interial attractive force that increases/decreases in accordance with the gap between intra-atomic

spaces. Precisely what Shrii Shrii Ánandamúrti describes as intra-inter atomic affinity, a waveform affinity force generated within every atom's intra-atomic space (See [intra-inter atomic affinity chapter](#)). It is attractive both within the individual atom and within the inter-atomic molecular structure, in both material and non-material waveform cases. More on jadasphota is contained at [About consciousness before Jadasphota](#) .

Energy within the atom

We have seen that energy as a force within the atomic structure is microcosmic in nature and in nomenclature for a very specific reason. It imbibes emergent attributes to structures in the phenomenal world. There are no attributes within the standard Macrocosmic svarúpa parińáma process. Secondly, within Saincara there is a Macrocosmic tamoguńa binding field force that has created a very powerful dark type of energy (about five times more powerful than ordinary energy). This powerful force is released within the implosion process and then slowly converted to ordinary energy controlled by the microvita. This is called ordinary vidya' shakti (prńána) energy. Controlling ordinary energy within the individual atom, microvita gives the specific shape and observable attributes. Two things can happen. Outside influences such as additional temperature or friction can cause quantum shift (major wave changes) and the atom structure will change (due to frequency shift) into a different element. Secondly, molecule combinations can occur from chemical bonding and valence usages. All of these are ordinary energy usages.

But, molecule forces balance is ordinarily only a minor case of biological evolvment. The normal cosmological evolutionary process is through stellar nucleosynthesis; the major path of elements and atomic structuring. This involves the continued pressure of Macrocosmic macrocentrifugal binding tamoguńa pressure. This cumulates in what Shrii Shrii Ánandamúrti calls the nadir⁸³ point of balanced forces.

The external balance of forces is controlled by microvita in the process of protium atoms. During this process the attributes increase in number as the macrocentrifugal pressure increases and the wave frequency increases. Frequency increases in what He calls crudification process of matter. In the individual atom (including elements) as the

⁸³ A stage comes when the centripetal and centrifugal forces are evenly balanced. That is the nadir point of crudification. *Struggle_and_Progress.html* 1958

microcentripetal force is dominant, all the way to the nadir (balanced forces) point; atomic spin, frequency and internal atomic friction will continue to increase. Slowly as the various elemental levels in nucleosynthesis arrive, the number of attributes will increase, like increased microcosmic attributes of electromagnetic, chemical and ordinary atom bonds, nuclear reactions in the atom, energy dispersal (radiation) density attribute of the rudimental factors in ordinary created matter. Eventually the nadir point will arrive. No longer can mind become a product of material atoms. Atoms have reached their maximum point of crudity.

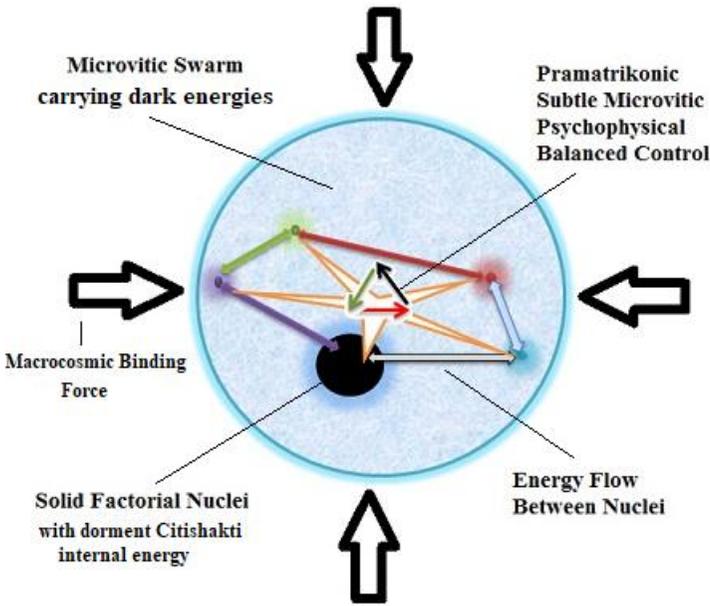
An important question arises, *where* does this apparently additional ordinary energy come from? Large obvious examples of this would be lightning energy displayed between cloud actions. At jadasphota huge amounts of ordinary energy is released from the supernova explosion and then is released to *any available structure*; Remember in our universe 95% of the energy/matter is non-observable. We observe only the emergent attributes of a very small percent of our observable universe. Outside the atom microvita carries ordinary energy on the waveforms of what we call attributes that are all sense observable. A simple example is ordinary energy in light that impacts molecules as heat and cause changes in the structure.

The central forces that are within the ubiquitous nominal created stable atom (protium) are different from the force that holds groups and molecules together and apart. We just assume from classical observation that they are the same forces that work within the individual atom. The assumption is further exaggerated by observation of things like matrix complex structures and that the forces holding those static appearing structures, are just as static and stupid within the atom.

How does the atom generate ordinary material energy in jadasphota? The answer is energy is generated as the resultant of the two forces. How? The internal force (microcentripetal) causes spin in the solid factorial nucleus. The synthetic *microcentrifugal* force is not dominant. Therefore spin continues to slowly increase as does resultant friction energy amount. At the point of creatom, microvita is balancing internal and emergent attribute controlling energies. This is why the half-life of stable atoms is very long because microvita uses its own internal dark energy to balance the structure in accordance with the emerging environmental conditions. Under normal post-creatom conditions microvita can balance these energies and allow for change in molecular states (as through the entire nucleosynthesis cycle).

Remember that the microvitic atom consists of two parts; that is both parts have energy. When microvita is released in violent jadasphota, the ordinary binding energies are released explosively to other cosmological structures. There is also the citishakri energy bound tightly within all the five factorial structures in the atom. Factorials are composed of only Shiva/Puruśa Cosmic Consciousness that is irrevocably bound to Citishakti energy. When the atom is destroyed in jadasphota the factors are released into individual factors and the bound citishakti is released. See [Nadir Point](#) for description.

Intra-atomic Energies in Protium Atom



Intra-atomic Energies in Protium Atom

Shrii Shrii Ānandamūrti’s intra-atomic forces are very stable and maintain to keep the atom together for billions of years because they are intelligently designed algorithmically controlled to do just that. The atom is individually controlled by microvita using specific frequency, holding specific shape-forms and specific algorithms controlling various energies between specific factorials. The primary factorial is solid factor and is held together and in place in the center of the nuclei by the resulting two central forces of its creation. Microvita

are force carrying mediators of the energy of which they control. This is only in the very small and individual nominal atom. All the individual elements in nature are made from the combination one primal type of atoms through standard nucleosynthesis process.

As long as the internal microcosmic centripetal force remains dominant within any nucleosynthesis process, the original atomic atom structure (as protium) will remain stable. The original five fundamental nuclei will remain within the atom and microvita will maintain the original basic structure thru the entire nucleosynthesis process until final structural dissociation.

How is this possible? Remember, any structure (physical or mental) requires a base. The new molecular structures combined, destroyed or modified during the nucleosynthesis process, require another structural base for the microvita to control the combined molecular structures (or new structure). This allows different pranic energy to associate with the new structure. New structure will exhibit emergent attributes that were not part of the individual protium structure. We only observe the external emergent attributes and cannot observe the remaining protium structures. Energies may be inter-transmutable and interchangeable as ordinary energy but within the basic atom structure they are maintained. Fission and fusion are nucleosynthesis processes they re-arrange energy structures...They are not jadasphota. By this we mean, the factorial energy is arranged by microvita, to suit the new environmental requirements. (Like less liquid factorial energy must be relocated to the aerial factorial in the nucleus, when the structure of steam is required from water structure.) The new elemental and molecular structures are completely new microvita mental structures that control the re-arranged element and molecular bonds. Chemical affinity, electric charge, EM forces are emergent attributes, not original characteristics of original (neutral based) creatom point protium structures.

The Material world is Atomic

“All matter originates and exists only by virtue of a force which brings the particle of an atom to vibration and holds this most minute solar system of the atom together; We must assume beyond this force the existence of a conscious and intelligent mind. This mind is the matrix of all matter.” *Max Planck*

Atom Creatom Point

*Brief Review*⁸⁴

The ubiquitous field force called by Shrii Shrii Ánandamúrti macrocosmic Avidya Shakti is cosmic in creation during the stage of formation of cosmic citta. It causes first the particulation of energy as a systaltic and particulate waveform. Through the entire creation process Avidya Shakti is present as a field force causing disruption in wavelengths and what we see as causing waves to move closer together. Later, the tamoguña binding tendency causes even the cosmic consciousness part of the cosmic waveform, to become particulate. The process of the binding the ubiquitous field macrocosmic waves never stops in all cosmic creation, whether it is before or after atom creation. In order to discuss this more efficiently, we need to designate a particular name for the atom creation point. I'll use term creatom point.

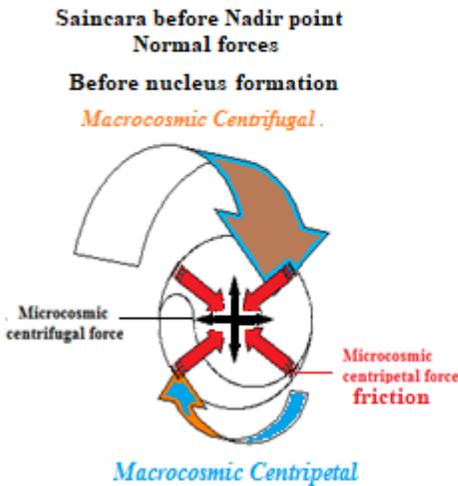
At creatom point forces do not change, only nomenclature changes. This is because the focus of the structure changes and the terms are central in nature. The cosmic cognitive creative structure becomes material and now shifts to the atomic nucleus as its focus point. Microcentripetal force is a real force and is interial towards the nucleus center. The solid structure of the rudimental factor is the focus and center. Shrii Shrii Ánandamúrti uses the terms concentric force and the eccentric force to describe this center type forces. At pre-creatom points all cosmic structures had no attributes in our sense of understanding attributes.

The macrocosmic field force is macrocosmic centrifugal (away from cosmic center) and with tamoguñic pressure causing a resultant microcosmic centripetal force (with spin and interial attraction) at creatom point, Please note that in 1959 microvita had not been introduced as the atomic internal entitative controllers to “maintain the structural solidarity” within all atoms.

⁸⁴ A complete overall description is available in Bates, Raymond, [Microvitology, Microvita Universal Subassembly Structures](#), Revised Electronic Edition, 2019 *Chap IX* Quantum and Cosmic Forces

At creatom point microcosmic centripetal force became attractive towards the atom center and causes the solid factor to have a centripetal center directed spin. The Macrocosmic dominant field force is still active (as tamogufic) and combined with the microcosmic centripetal spin force causes further interial pressure on the now newly formed solid nucleus core. When this happens interior friction increases.

Another force in the atom is the theoretical synthetic force called microcosmic centrifugal. As a theoretical tangential force tending to throw objects outward, it is minor and overcome by the inward seeking force of microcosmic centripetal force. It is interesting to note that Shrii Shrii Ánandamúrti relates to the difference in the two micro forces as the strength of energy within the structure called by the name bala.



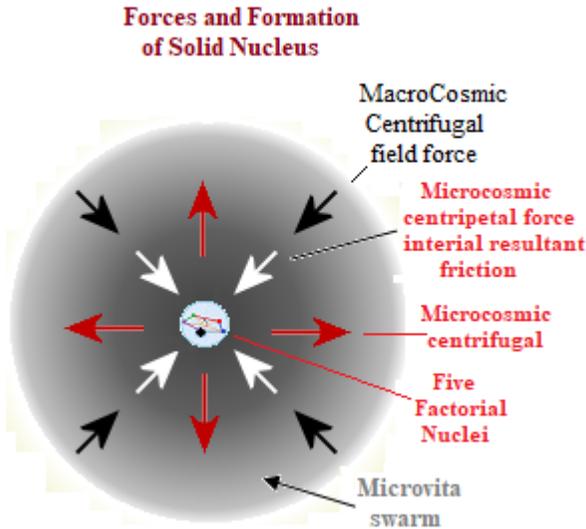
If the strength of the centrifugal force of the Cosmic Cycle is less than the centrifugal force that first emanated from the Macrocosmic Nucleus, the centrifugal force generated within the material structure remains less than the centripetal force. As a result, in spite of the internal centrifugal force within the material structure, the extro-internal force remains dominant. It is for this reason that the internal force within the fundamental factors remains dominant during the process of Saincara.

Struggle_and_Progress.html

Forces Before nucleus construction

What “energy” is that? Microvita at this time (1950’s) has not been introduced. Microvita is a balancing entity that uses its own energies (probably dark energies). Microvita brings energies into the structure formation to maintain balance in the structure. That’s why they are considered as force energy carriers in all phases of creation. Remember the rudimental factors as compressed cosmic consciousness, has its own name for the intransigent energy within cosmic

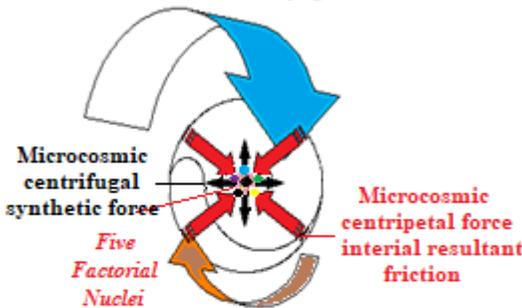
consciousness, called Citishakti. Avidya Shakti is only the name of the process. Tamoguña is only a description of the type of static movement.



Forces and Formation of Solid nucleus

Formation of Solid Nucleus

Macrocosmic Centrifugal



Macrocosmic Centripetal

- Macrocosmic centrifugal force increases
- Increase inter-atomic (internal) friction (microcentripetal force)
- Creates solid nucleus of 5FF
- Increase in chemical affinity

This [Macro]centrifugal force of Saincara results in the creation of a [micro]centripetal force in material structure. The more the process of Saincara advances, the greater its momentum, and the stronger the internal force of attraction within the structure. ...

But if the external forces win, the resultant external cannot form any nucleus within that physical structure. The resultant interial force, therefore, is the only factor that can create a nucleus within a solid body and thereby maintain its structural solidarity. Saincara_and_Pranah.html 1959

Schematic Drawing of Formation of Solid Nucleus

Let us review the constituents of the atom at this point:

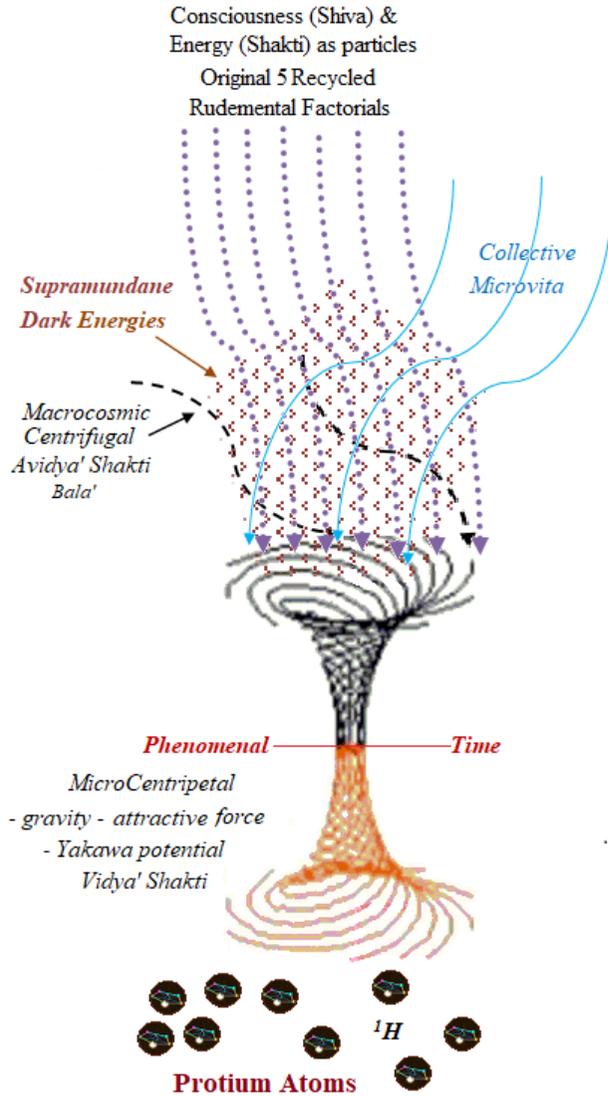
- Macrocosmic Macro centrifugal field with tamoguńic binding force
- Microcosmic micro centripetal center seeking force
- Synthetic micro centrifugal fissiparous force
- Solid factor's as compressed cosmic consciousness
- Energies as Citishakti in solid factor
- Dark energies in microvita (not discussed in 1959)

In order to continue we must discuss wave function and friction. This is because wave function is treated differently by Shrii Shrii Ānandamúrti than with classical physics. Classical physics does not recognize the differences between material objects, using material and non-material wave structures. The rudimental factors in the atom are waves structures so compressed that they act like solid structure. Material science only uses the senses to materially identify and objectively define the solid structures around them; not knowing that the unseen wave structure is the actual and controlling element of matter.

The implosion process

Now that we have the actual ingredients of matter being created within Saincara we can discuss the implosion process that creates protium. Notice that only protium is produced. No mind waves, special energies or other items. There is no need of other products. Microvita remains within the atom until it is much later broken down and recycled naturally, through the jadasphota process. It simply proceeds on its way. It is not destroyed by hot or cold or radiation; only by other opposite energized microvita

Let us look at how Saincara proceeds to evolve to become material phenomenal atoms. Some of the process is a little like reverse engineering. We see the results before us but we must infer how they got there. The implosion process is a lot like that. There are myriad different types of implosion processes described in numerous works. The exact process that resulted in matter can only be inferred by the results that are produced. Whether it was a fractal implosion or another more standard type of process was never mentioned by Shrii Shrii Ānandamúrti.



Implosion Squence Drawing

Protium Implosion Drawing

Review implosion theory

Let us summarize the ingredients in the process (implosion theory) one at a time and describe how they get to the final protium product.

- **The newly created five rudimental factors** have attenuated from a very long wave vibration in the svarúpa parińáma process to the very high frequency we find in normal atoms. The supramundane (FTL) factorial waveform has slowed (and therefore increased frequency).

- **Cosmic Consciousness** (within the factors) has practically solidified and is what we perceive as the classical neutron in protium atoms. It is dormant in mind and action.

- **Supramundane or Dark energies** (práńa) carrying about five time the amount of what we see as ordinary energy is now controlled by the new microvita controlling nucleus within the atom. It is no longer dark energy but now is ordinary energy allowing the shorter wavelengths to have more/many of what we see as attributes. (*See [Attributes of Matter](#)*). In the theoretical creation of ordinary matter using ordinary energy the rapidly compressed matter/energy into the small space of an atom would cause an initial compression reaction that in turn would cause the release of radiation either as light or other energy releases. This release of radiation (in ordinary matter creation only) and subsequent cooling process would theoretically inhibit ordinary matter atom formation. Dark energy has no attributes.

- **The recycled lower five rudimental factors** (from jadasphota explosions). Notice we said recycled because the products of jadasphota are not just exploded/pulverized matter/elements but also the lower four of the five factors. These were specifically mentioned by Shrii Shrii Ánandamúrti as products of jadasphota. Here they simply re-enter into the process within Saincara having had their speed increased to supraliminal speed and their frequency lowered from the process.

- **Microvita** has many functions. We know that Shrii Shrii Ánandamúrti specifically stated that microvita started its journey as a product of the Cosmic Consciousness within Saincara. Since it is a living point-like entity it has almost no materialistic characterizes, we place its starting point of its journey at the end of the svarúpa parińáma, process where the solid factor has just formed. Here it has supraliminal speed that attenuates to light speed as it enters the atom to perform its control duties. It has already received its intelligently designed algorithmically pre-programmed algorithms and consists of the two parts as described by Shrii Shrii Ánandamúrti. Its first duty (we would probably view it as because of its longest life) is in the atom. A later duty (microvita's second stage of evolvment) some of the microvita (probably a very small percentage) are released during jadasphota to

proceed biologically centered, on to Pratisaincara. At this point in the atom, the biggest duty of microvita is working as collective programmed consciousness. Microvita takes on additional energy as it acts as force energy carriers in all phases of creation during the atom and later elements modification duties. In any case it carries out the swarm duties as the partner in the protium with a negative charge.

Nadir point

The Macrocosmic Macrocentrifugal binding force is ubiquitous but only can act *up to* a certain point on the atomic structure. That is when the structure (here atom) is compressed to such a small point. Atoms can reach a minimum internal space, after that only jadasphota and dissolution happens. Like in any material structure, force is exerted evenly over the structure surface area. Even though the Tamoguña binding force continuously increases; atom area decreases. Actually the microcentrifugal force continues while the microcentripetal force has reached its maximum force point. Spin and therefore microcentripetal forces increases friction. This is when the nadir point has arrived. But what is friction within the atom. We call the force that applies the pressure, microcentripetal

Friction is not all the same in all mediums. It acts differently within the material aspect of the physical (in the atom) than with the psychophysical aspects. Psychophysical means in the aspect of ectoplasm within mental cells. Ectoplasm cells are mental cells that make up the first layer of all minds. In the phenomenal (our world) they die at the death of the biological host. They are the most crude structure that can “take the shape” with proper direction of more subtle mind.

The atom does not have ectoplasm because it has no biological mind. Microvita has a higher collective mind but in the atom it is relegated to strictly following its frequency oriented duties as it is algorithmically pre-programmed to control the variable energies within the atom.

Friction is the result of increasing microcentripetal pressure. It is actually called a concentric force and sentient force because it is strong and center seeking. Friction of the physical viewpoint level is observed by our senses as heat. But that is only the apparent cause not the real cause. What is the real cause of friction? Friction is called inter-ectoplasmic expansion in psycho-physical mental aspects and called intra-inter atomic expansion in the material world of the atom. That is the internal centripetal force is causing expansion. Heat is apparent.

Friction is the name of the cause. Energy is the resultant. (further described in [Yukawa potential force with Central Forces Nomenclature](#) drawing and other places below).

Look at a rock that is heated for some reason; it expands. The force that expands it is called inter-atomic expansion and Shrii Shrii Ánandamúrti uses that name for microcosmic centrifugal force from the center of the atom. The molecules in the atom move apart as does the particles of cosmic mind stuff (rudimental solid factor particles) in the individual atom, in this case intra-atomic microcosmic centrifugal force.

After the nadir point in the atomic cycle this happens. It also happens at a different point in the biological molecular cycle. In the creatom cycle, atoms take on new and different attributes. The same progress happens in molecular structures. Heat is an observance of inter-molecular disturbances. And on a higher level, mental cells are disturbed; sometimes called clash or mental inter-cellular clash. All caused by microcosmic centrifugal mutual repulsion of molecules.

There is a quote that describes this critical point in Shrii Shrii Ánandamúrti's philosophy where He is talking about the general case of Cosmic Cycle...and then the microcosmic cycle.

When the centripetal force is greater than the centrifugal force in the Cosmic Cycle there emerges mutual repulsion... centrifugal force which causes atoms and molecules to be mutually repelled” *Struggle_and_Progress.html 1958*

We see classical evidence of this type of action with elements in the synthetic transuranium elements series obtaining the nadir point in what is called standard nucleosynthesis, past this nadir point. The classical elements with the atomic members **95–118**, have no stable isotopes. This is because they have reached the nadir point in their atomic evolutionary progress. The microcosmic forces are balanced. The internal friction of all the complicated attributes and high frequency compacted solid factorial structure, can no longer be stabilized into stable elements

Back to friction and mutual repulsion; remember that we said friction is not the name of the force; it is the resultant and called energy. So in order to reach this nadir point the internal centripetal force contributes concentric compression. Increased spin rate because of the frequency change, also contributed more pressure directed towards the center. All called friction but actually being seen as energy, sometimes seen as heat or maybe radiation.

Because of the extreme internal friction within the solid structures of atoms caused by the increase in the microcentripetal force caused by

the continual increase in the Macrocentrifugal force (The centripetal force dominated by the sentient principle Sattvaguña a dominant powerful force.) there arises\is created a mutual repulsion among molecules (atoms).

“When the centripetal force is greater than the centrifugal force in the Cosmic Cycle there emerges mutual repulsion amongst the component units of the material structure...”. *Struggle_and_Progress.html 1958*

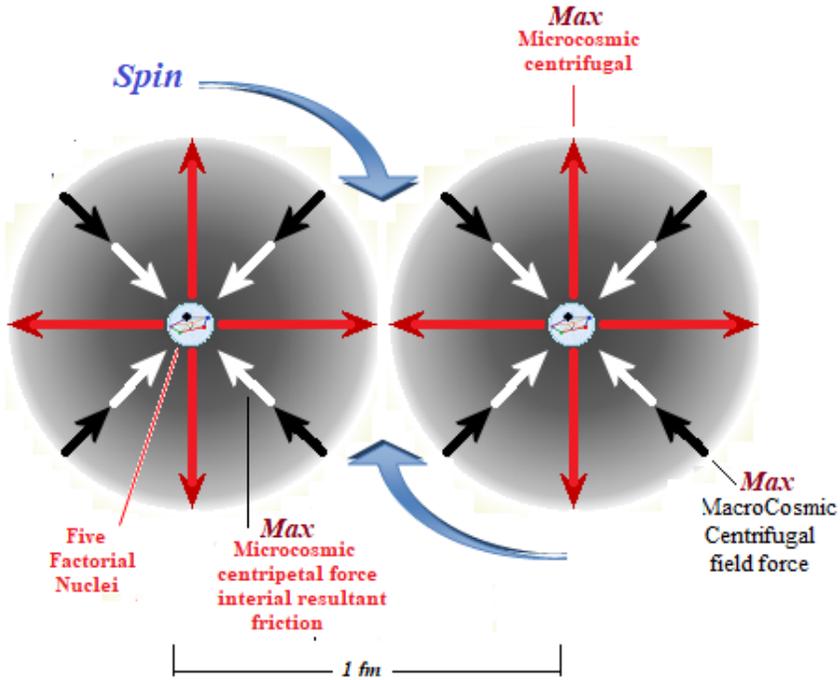
Mutual repulsion is *energy* within the atom, *not a force*. The only energy within the atom in 1958 dissertations was the Citishakti energy that is coexistent within the cosmic consciousness, within the solid nucleus structure. (Not dark energy carried by microvita)

This is the repulsive energy that gives supernovae the power to blast the atom apart. In this atomic case it is called intra-inter atomic expansion.

At the nadir point internal attributes like spin, frequency and internal friction are at a maximum. The extro-internal microcentripetal force caused by the Macrocentrifugal force continues to increase until microcosmic forces are balanced. The individual atom size is smallest and atomic spacing is at minimum similar to Yukawa potential or Reid force distances in classical atomic studies of nucleon distances. How did this balance of forces happen?

Let us draw a picture of two atoms spinning very fast and close together.

Nadir Point Two Atoms *Same Spin*

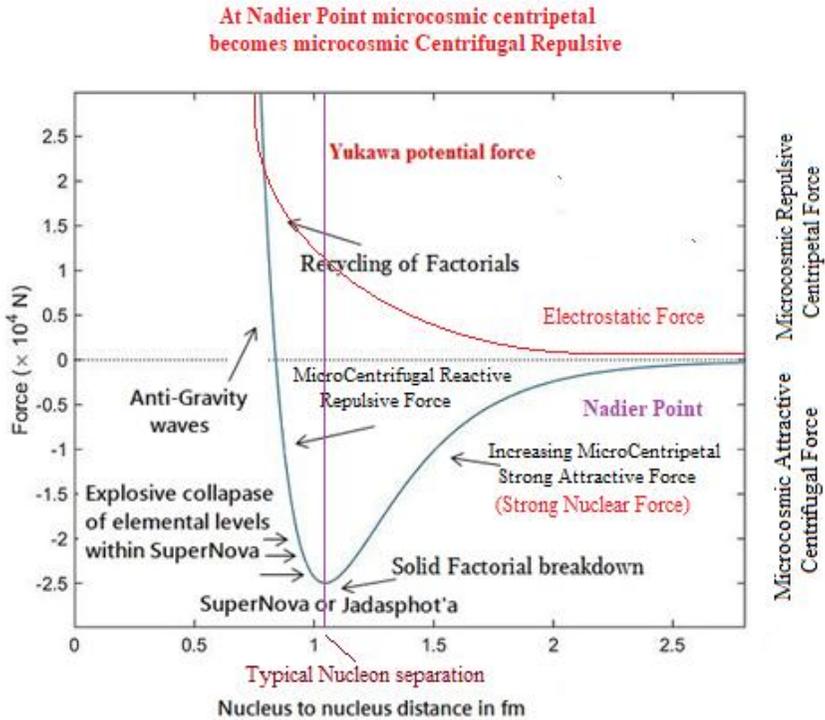


Nadir Point with 2 Atoms with same spin

Here it can be seen that the Macrocosmic centrifugal field force is only a contributing factor along with the internal resultant microcentripetal force we call friction. Atoms can reach a nadir point of internal forces independently (with proper distancing) and the increases in internal friction will only result in slow jadasphota. Our better said, slow dissipation of energies in the structure (normally biogenic at this point and known as slow jadasphota).

When the distancing falls below the Yukawa potential limit of approx 1.5 fm, then the atoms centripetal spin forces are disrupted. This causes the microcosmic centrifugal force to explode exponentially, making the occurrence of fast jadasphota. Shrii Shrii Anandamúrti describes jadasphota happening because no two identical objects can occupy the same space or “diversity is the law of nature”.

Here is the exact standard Yukawa potential drawing with the two central forces shown between two atoms. The only changes are in the nomenclature.



Yukawa potential force with Central Forces Nomenclature

This is a representation of the Yukawa potential force in microcosmic reactions as fast jadasphota. Notice He describes “atoms” fast jadasphota (supernova) and “molecules” slow jadasphota (wear & tear or slow dissociation of structure).

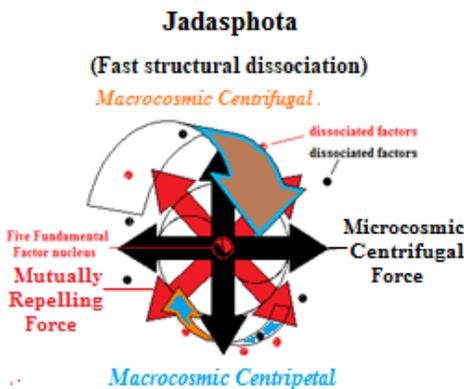
About consciousness before Jadasphota

Consciousness in the atom comes into our world from the extended universe of Saincara in a solid structure made to last billions of our years. But where is it in the atom? As an atom is full of energy but the consciousness is bound by the tamoguña type binding of that space. Something that consciousness is bound so tightly cannot get out, unless it is released. That means, that in the strongly bound world of the

atom the subtle parts of the atom like microvita and consciousness must be released, in order that they can proceed onward on their physical-psycho-physical paths. Jadasphota is the answer. The consciousness and microvita are within the atomic structure waiting to be released.

A supernova does more than just break and blast everything apart. The horrendous energy blasts normal matter up to the speed of light, its limiting speed for ordinary matter. The things that are not ordinary are microvita and the five rudimental factors. These are disassociated matter specifically denoted as such by Shrii Shrii Ānandamūrti. They are no longer matter. They are accelerated to faster than light superluminal speeds by the supernova. Anything that is superluminal is consider supramundane and can no longer be detected by ordinary senses and extensions thereof.

Notice that dark energy and the original five rudimental factors along with newly created microvita (all supramundane and at FTL speeds) enter ordinary implosion theory and go to ordinary light speed within the new ordinary atoms (Protium) at the creatom pint. *No radiation* is emitted because all three components (microvita, five rudimental factors and captured dark energy) are supramundane.



Consequently a stage will come when there will be little interatomic space within the solid body. Now if static Prakrti exerts more pressure, [the equipoise of the component elements gets lost and] there will be a tremendous reaction within the physical body (affecting both the interial and exterior forces) resulting in structural dissociation. This is called jadasphota. Saincara_and_Pranah.html 1959.

In this stage the Microcosm is subjected to the centrifugal force which causes atoms and molecules to be mutually repelled. Saincara_and_Pranah.html 1959

Jadasphota schematic

Jadasphota experiment

A practical thought experiment. Consider many (thousands) of spinning tops arranged in an equally spaced matrix (like crystal) cube shaped. The density of each spin-top used would be approximately equal total density of a material protium atom. Each spin-top spaced far apart like within a volume of air. Spin speed very fast, like individual atoms spin speed.

The difficult part is allotting individual control to each spin-top. There are computers that could do this application. Now reduce the cube to a sphere shape, maintaining the number and spacing of the spin-tops.

Program the exact spacing curve to the Yukawa experiment. Slowly reduce the inter-atomic spacing (between all three dimensions) to near the 2 fm Yukawa limits. Then reduce the inter-atomic spacing to as close to the repulsive 1 fm limit as possible, without causing disruption.

Experiment theory. According to theoretical classical atomic nuclear (fission) theory, explosion is caused when critical mass is exceeded due to radioactive particles, allowing a chain reaction. Yukawa potential does not include radioactivity for the repulsive force to be activated. Central forces theory does not include radioactivity to cause microcentrifugal reaction causing supernova (jadasphota) explosion. Microcentripetal friction is not considered as radioactive.

In theory, if one spin-top (theoretical atom) spin (probably near center of matrix sphere) was reduced dramatically, then the disrupted microcentripetal force's entire energy would become microcentrifugal (repulsive) and in turn disrupt the near-by densely packed (at 1fm spaces) spin-tops. This would cause a rapid jadasphota chain reaction explosion (without radioactivity).

Summary of Forces and Energies in atom

At creatom point pictures don't really show the whole picture. The atom is using forces and energies in almost inconceivable ways. This is because of Shrii Shrii Ánandamúrti's introduction of microvita after 1986. Microvita is point-like and more like idea than matter. That means it is running at different frequencies, using different energies and has different purpose than the crude matter portion of the atom. It's easy to make two dimensional pictures and list the parts given by Shrii Shrii Ánandamúrti, but it is another thing to understand the interactions. The implosion process at the creatom point changes forces and energies dramatically. Pictures only will not due.

Microvita changes the atom radically from the 1956 atomic scenario. Then we had the ubiquitous Macrocosmic field force centrifugal Avidya Shakti causing/creating the microcosmic centripetal (center seeking attractive) force drawing the *dormant* (mostly solid factor) in an increasing central spin. At this creatom point, the atom is now entering the phenomenal world of relativity (cause and effect). The fundamental factors are described as “particle” like as is energy. Energy in the Puruśa (consciousness particles) is called Citishakti and is compacted with the dormant factors. (There is also dark energy in the controlling microvita). In His 1950’s passages He describes these as microcosmic centripetal friction energy and a small opposing force of microcosmic centrifugal in the atom. See drawing [Forces and Formation of Solid nucleus](#) .

The microcosmic centripetal force reactive force (we call microcosmic centrifugal and think of it as [fictional force](#)) spins faster and faster under the ever ubiquitous Macrocosmic field force. This causes the increasing frequency changes and that in turn changes the emerging attributes (like charge and EM fields). This continues (through the nucleosynthesis cycle) to the nadir point and later to the jadasphota drawings. All this before microvita!

What does microvita do? 1. Negative microvita (crude part) creates the atom by providing collected dark energy at implosion (creatom point). 2. The very subtle microvita part (longer wavelength) as microvita swarm, provide the control of the (dark-now normal) energies throughout the nucleosynthesis cycle. This is microvita’s first stage of evolution. See [Microvita evolves in stages](#) and [The Cosmic Life-cycle of Microvita](#).

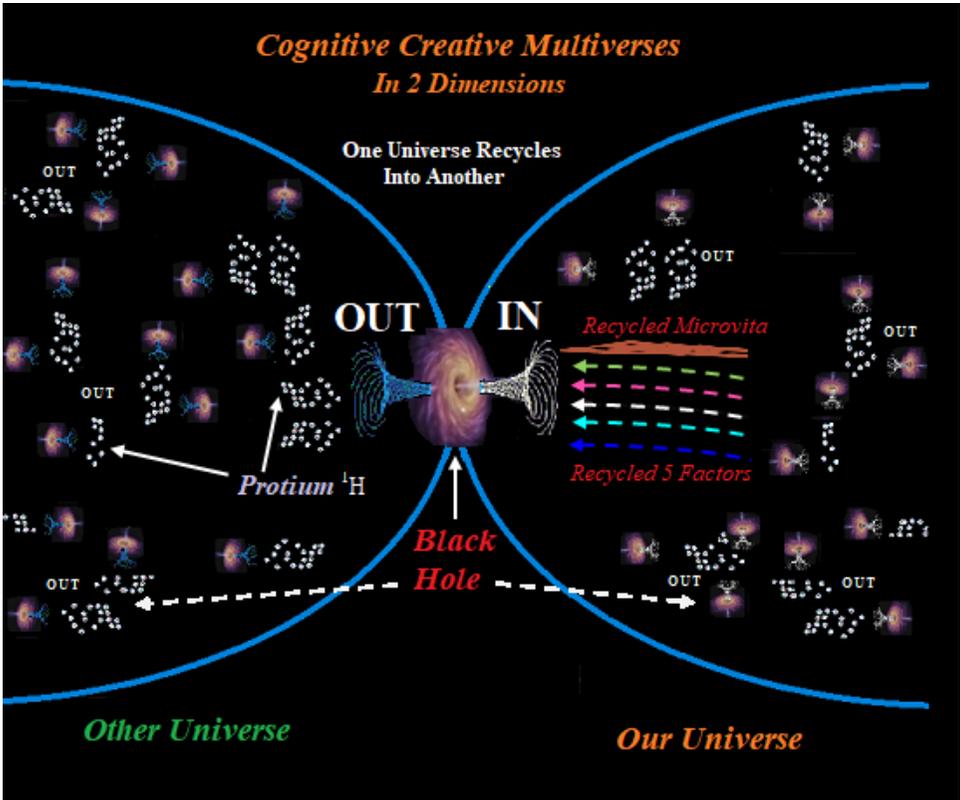
Multi universe

As microvita is recycled from supernovas it is accelerated to FTL speeds and then picks up dark energy. Microvita are energy carriers in all phases of creation. They (with now dark energy) and the accelerated five rudimental factors can also be attracted to the black holes. The point here is black holes might easily make protium that does not have to come back to our universe.

Consider that scientists with the newest space telescopes have detected not just a few large black holes but now billions of tiny black holes all over our universe. All could create protium going to another multiverse; just as that multiverse with their billions of tiny black holes

could place protium in our universe. The interstellar medium is roughly 90% protium (free hydrogen) and 9% helium and 1% elements heavier than protium or helium. Protium makes up 95% of the known universe that in turn creates the elements through nucleosynthesis.

This does not mean that all other multiverse have to be like our universe. Protium and elements only create stars and planets. Life adapts differently wherever it blooms. The Cosmic Creative Universe creates matter and a microvita program. Its life that adapts or not.



Drawing Cosmic Creative Multiverse in 2D

Looking at the 2D Cosmic Creative Universe multiverse drawing above doesn't tell the reality of our universe around us until you think of it as in 3D as one multiverse with billions of small black holes feeding protium into other universes. Now the drawing and creation becomes much clearer.

Shrii Shrii Ánandamúrti's dissertations on the cosmos lasted from the early fifties until 1990. Although He did not mention multi, parallel or dimensional universes; that does not mean that they did not exist

when you consider that a multiverse theory would not make any sense without explanations of microvita theory. He only started those explanations of microvita during the last three years of His dissertations. The example herein mentioned is only an eccentric example of possible multiverse theory.

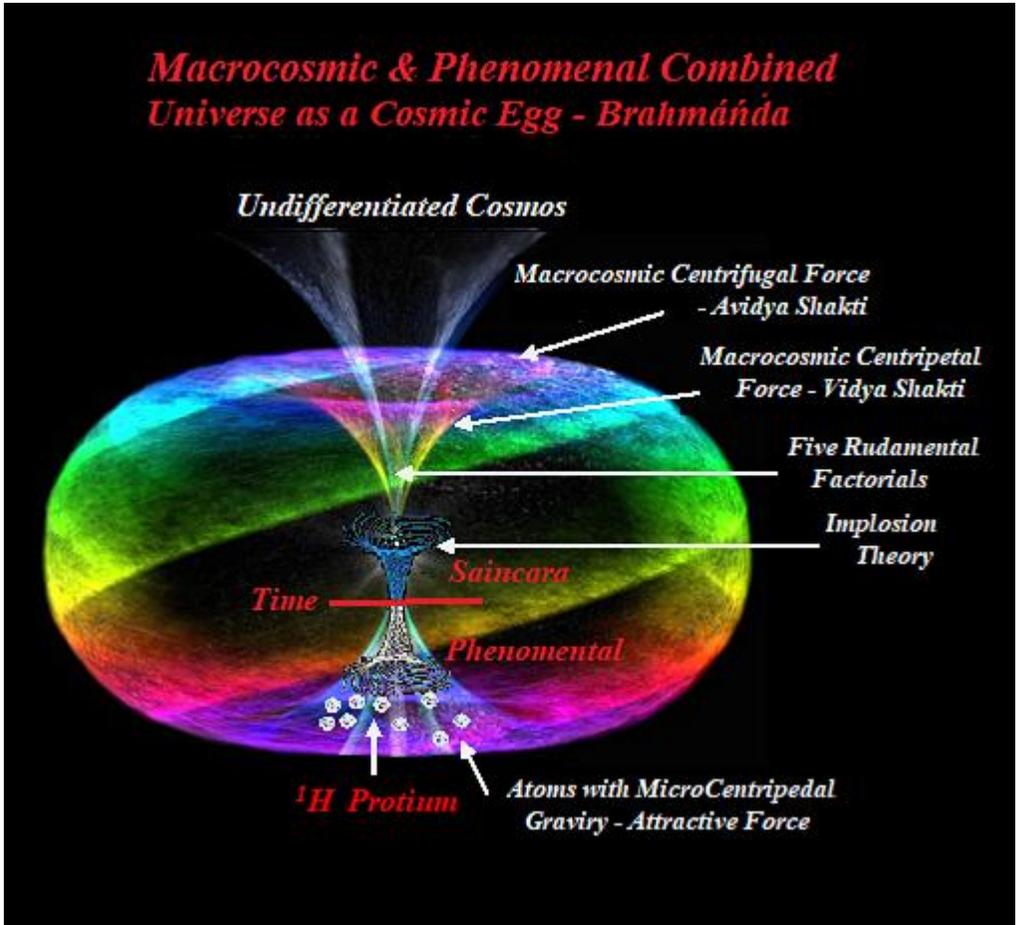
The theory in the drawing is implausible because of what goes into a black hole. First the black hole is within ordinary phenomenal space (Implosion theory is not) and can be partially accessed through background studies. We know massive amounts of energy and other things go into and out of black holes, ordinary matter, and light even radiation. We also know that what we presently call Hawking radiation comes partially out around the perimeter. Radiation is a third level factorial energy and small particles. Ordinary energy, light, radiation and matter are not part of implosion theory to create protium.

Conceptive Preview of Universe Construction

The characteristic of that Supreme Being is its all-pervasiveness... all-mighty, all-observing, all-knowing, self-controlled and Svayambhú or self-creating.

The_Intuitional_Science_of_the_Vedas_1.html 1955

Review Cosmic Evolution of the forces and Energies of the Universe



Conceptive-Subjective view of the Universe

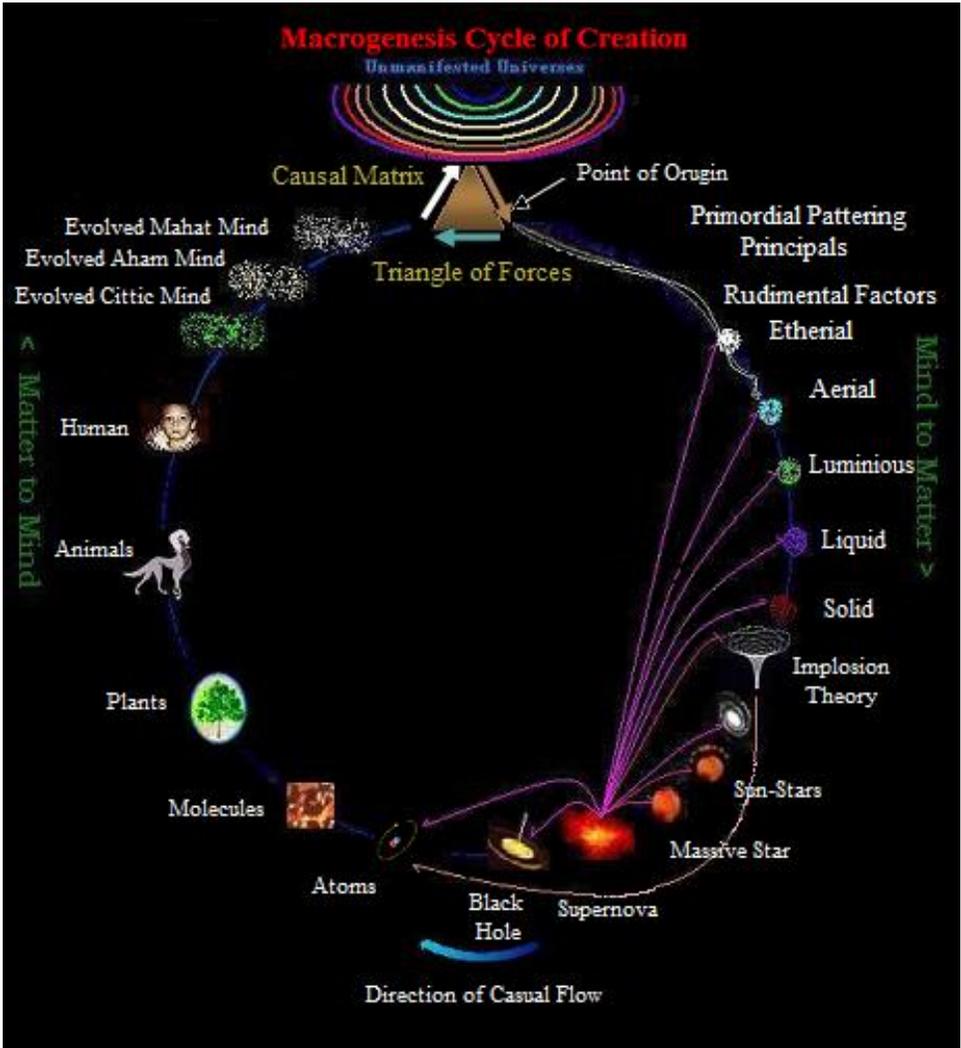
In ancient descriptions of the universe, it has generally been proposed is egg shaped and is normally called Brahmánda or Cosmic egg. In this stylized drawing the undifferentiated universe (cosmic causal matrix - Srśtimátrká) of energies generally will take the shape of least resilience, a triangle. From the strongest vertex point this force consisting of energy (balam) and pure consciousness through a process

of homomorphic evolution (svarúpa parińáma) or a sequential metamorphoses of cosmic consciousness, deteriorates into an end product of particulate matter. Within the subjective arena of Saincara (that we cannot sense) the forces of the universe consist of two. One force is the dominant Macrocosmic centrifugal field type force (Avidya Shakti) which causes created objects to drift away from the subjective cosmic center. It is vibrational in nature and permeates the entire universe. The other force is the opposite Macrocosmic centripetal (Vidya' Shakti) force that is in inverse proportion (during the process of homomorphic evolution), center seeking and interial in nature.

A close subjective conceptual analogy for Saincara is non-local related and non-relative to our way of thinking and is only creating the factors we later sense as shape, space and energy. Matter is only being created through the implosion process of all the constituents into the phenomenal world of matter. Matter is protium, the most prevalent atoms in our universe.

Consider the transient conceptual point of origin of the material creation as a continuous waveform flow and then passing through Saincara and into our area of phenomenal objects. Our area of the universe that has shape, form and matter where objects are no longer subjective and material objects can be sensed. An analogy of this division may be like entering another dimension where time, space and person exist. One could think of a 4th-5th dimensions or even another dimensional brane. It is not a clearly drawn line, it is only an area that can be sensed as existence within subjectively objective matter. That is a general conceptive view of creation and is completely discussed in previous books.⁸⁵

⁸⁵ Bates, Raymond, Macrogenesis, A New Paradigm in Consciousness, E-edition, April 2016



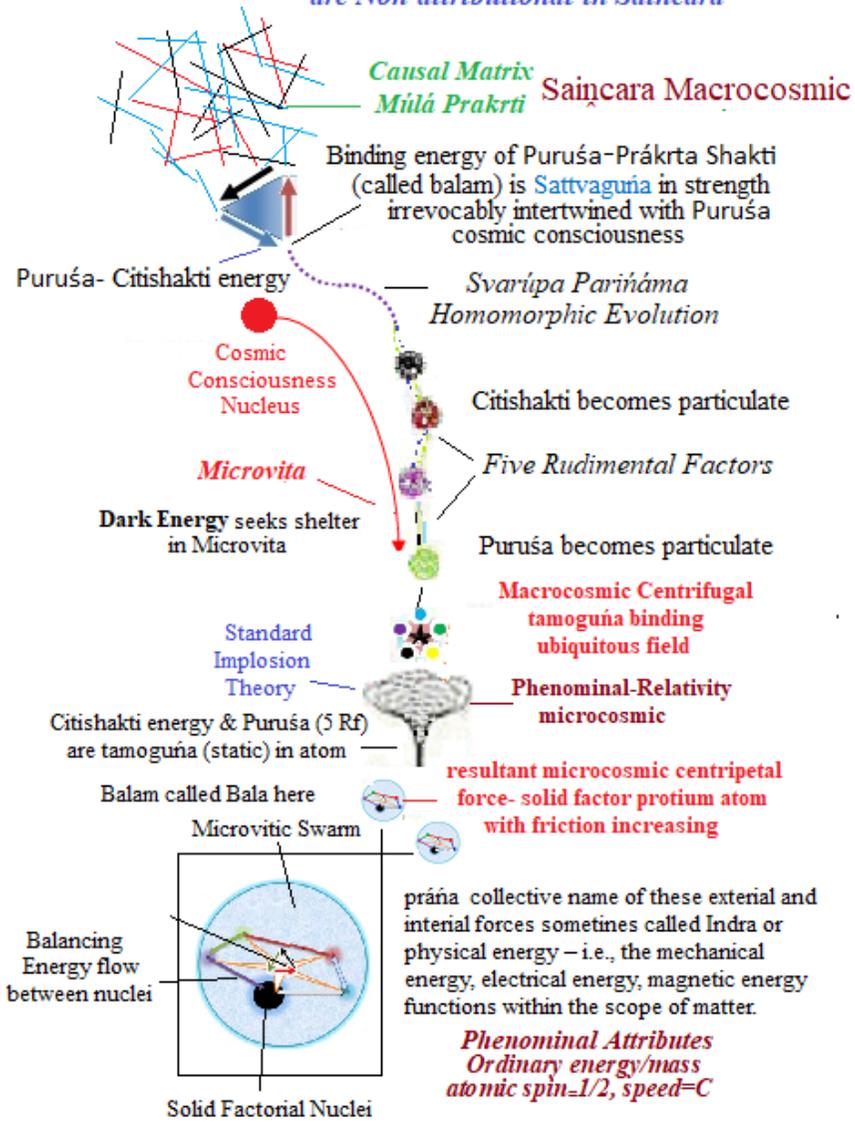
Ordinary Brahmachakra Cycle of Creation

This is the standard cycle of called Brahmachakra (Creation) described by Shrii Shrii Ánandamúrti before 1986. Notice the ‘Mind to matter’ portion is on the right followed by the ‘Matter to mind’ portion on the left. Mind on the left was described as unit microcosmic mind and pursued a normal evolutionary biological and mental progress until at the highest stage of development it merges with the Cosmic Consciousness. The progression of matter to mind from the atomic stage to living molecules was limited to the formation of cittánu (mind atoms) from matter (atoms). It wasn’t until the last few years (after 1986) that He introduced microvita theory and told how certain microvita activated life under certain environmental conditions. Unit

microcosmic mind shown on the left side is actually a separate Pratisaincara mental process. At that time, the mind of microvita (being a collective mind) had not been introduced.

For now, only a brief general description of the Cognitive Creative Universe process is being introduced. New and technical terms and processes like unit & collective mind, rudimental factors of the universe and nucleosynthesis, will be discussed fully as we proceed.

Forces & Energies
are Non-attributional in Saincara



Cosmic evolution Forces & Energies

This drawing is not the entire Brahmacakra/Macrogenesis standard drawing above and is previously described in other books. It shows the forces and energies up to the Creatom point (where atoms are created). Notice there is no mention of Pratisaincara (the area of

mind returning to the Cosmic Consciousness) in the drawing, not that Pratisaincara does not occur but that Pratisaincara does not enter into the creation and maintenance of the universe. The entire area in the *Cosmic Evolution Forces & Energies* drawing is within “Saincara” and an area of creation that is normally not within our phenomenal area of senses (or extension thereof). The other area of atoms, elements, suns, stars and even black holes is generally within our phenomenal world. Of course we as biological being are in the phenomenal world but not involved with creation of the universe. Within the first area of Saincara at the point of creation, there are only two components to our universe. We can use the term components because there is really only one thing, cosmic consciousness becoming matter. The other thing is only a binding or patterning principle or some call force that holds/modifies the cosmic waves of consciousness to forge what we see as energy/matter.

Sequential metamorphosis

From a macrocosmic viewpoint our universe consists of a macrocosmic or cosmic nucleus around which an aura of thought-waves revolves and as a result of which a variety of energy particles are created and emanate⁸⁶. The sequential metamorphoses of these very energy particles are generally classified into five fundamental factors. This process of sequential metamorphoses is a very macroscopic process of the cosmic mind of which the five fundamental factors is only the crudest portion. This portion of the Cosmic Mind is called Cosmic Citta and the other two portions are known as Cosmic Mahattattva and Cosmic Ahañtattva. Many universes can exist within the Cosmic Citta or this quasi-material portion of the Cosmic Mind. Only those portions that we can grasp using our limited senses appear as reality to us and when our senses can perceive that created universe.

This sequential metamorphosis of cosmic mind to phenomenal matter involves transformations of consciousness, forces and energy, all of which cannot be sensed with our minds until their vibratory levels reach our senses.⁸⁷ To try and view macrocosmic creation from a local cosmological viewpoint of how our universe is “fine tuned” or what are

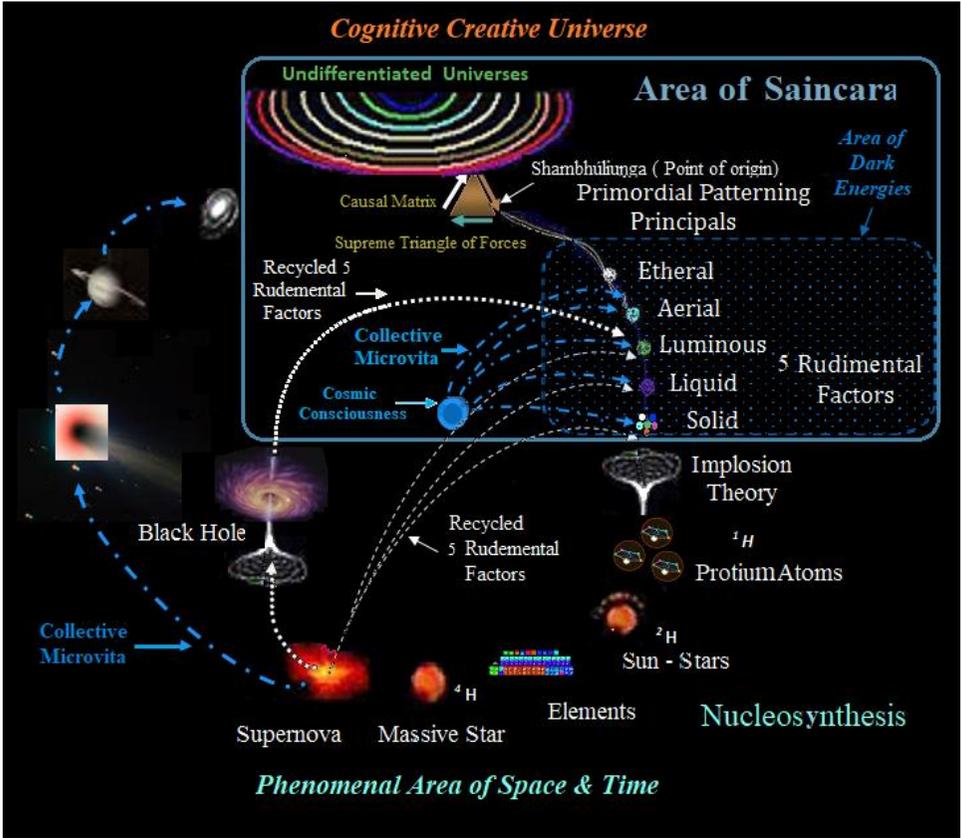
⁸⁶ There is an aura of thought-waves revolving around the Cosmic Nucleus or Puruṣottama, the nucleus of the Saguña Brahma, as the result of which energy particles are created. The five fundamental factors – ethereal, aerial, luminous, liquid and solid – are the sequential metamorphoses of these energy particles, so this quinquemental cycle is the resultant of the Cosmic thought-cycle; but this thought-cycle, too is the resultant of pure consciousness. *Vibration_Form_and_Colour.html* 1956.

“Energy is not one of the fundamental factors, but a stage prior to the metamorphosis of the Cosmic Citta into the five fundamental factors”⁸⁷ *Shakti_and_Its_Proper_Application.html* 1958

the constants and variables that allow our universe to exist, is a very materialistic and self centered viewpoint.

From a macrocosmic viewpoint the universe is created first; then we as a being, mental waveforms or any way you perceive it, evolves from that universe. We are adaptations of the existing universe. The hierarchy of existence stands on three legs of time, place and person. Time is function of person and person is a function of place (space) or universe. What we should be asking is: “What does the universe consist of?” Then what do we consist of? Not “How is it possible we exist in this universe and not in another?”

Allow me to say it another way, if that sounds confusing. Universes are made in the area of Saincara. That makes atoms. If the ingredient of the created atom changes (different proportion of five rudimental factors) then the type of universe will change. The viewpoint of constants and variables of fine-tuning is not a viable question or stance. Different basic atom structure will change universe structure. Try considering a universe based on a mainly aerial factor (not solid factor as ours is); then you will see the difference in possible universe constructions.



The Cognitive Creative Material Universe with Microvita

In this drawing we see is the same general cosmic cycle until after the 1986 microvita introduction, introducing microvita in the material/phenomenal areas and the supermundane immaterial areas of Saincara (in blue rectangle) and shown with the dark energies. Microvita as a collective consciousness entity has two basic functions in the Cognitive Creative Universe, to create and maintain both matter and life. We only sense the phenomenal universe portion. Microvita proceeds in the complete phenomenal areas including space and astrological phenomena but is created in the supermundane area of Saincara. We are aware of the atoms (biological) that compose us but not the energies that give us our life. Notice our phenomenal universe consists only of matter (atoms), Pratisaincara (the mental evolution portion) is not shown here. Microvita functions in Pratisaincara also, but with its energy carrying capacities and through thought waves.

Cosmic Creation occurs through a process we call homomorphic evolution (svarúpa parińama) or a sequential metamorphoses of cosmic consciousness into what we call matter. This is a relatively simple

straight forward process of supramundane powerful cosmic consciousness waves degrading frictionally in wavelength, within an area that is entirely beyond our sensorial (or extensions thereof) abilities of detection. This is an area not within our phenomenal universe of relativity and space-time. All of this is completely described and explained in other books of this series⁸⁸ and some parts will be further elucidated as we progress.

Looking at the Cognitive Creative Universe drawing, everything on that drawing exists but the only part we sense is called the phenomenal area. The part labelled Saincara within the blue outlined square exists just not within our sense of time, space and vibrations.

Look at the blue dotted area of dark energies/matter. We've discussed this area in other books at some length.⁸⁹ Every scientific means of standard identification of dark energies and other objectivities of dark matter fails. All measurements of light, radiation, mass, charge etc. fail; except very slightly gravity. The only reason we know something is there is because of its effect on other measurements of quantifiable objects nearby (like stars).

Shrii Shrii Ánandamúrti spent the first forty years of His dissertations describing the objects (within the blue square area) from undifferentiated universe to the five rudimental factors and only about the last 3 years describing microvita and its effects. Almost all modern scientists (both Eastern and Western oriented) simply ignored the five rudimental factors, as Hindu or Vedic (and later western philosophers) hallucinations.

Shrii Shrii Ánandamúrti's dissertations on the cosmos lasted from the early fifties until 1986. He did not mention multi, parallel or dimensional universes. That does not mean that they did not exist. When you consider that a multiverse theory would not make any sense without explanations of microvita theory. He only started those explanations the last three years of His dissertations.

Only now with the advent of microvita, have we been given the ability to recognize how microvita can be both the intermediary force to create and control atoms and how mind can be involved in an intelligent manner in the Cognitive Creative Universe process. The secret is that microvita and those five rudimental factors are real and at the heart of every atom (as what we call nucleons).

⁸⁸ Bates, Raymond, The Microvitic Atom, Microvita Sub-structures in the Atom, July 2016.

⁸⁹ Bates, Raymond, Microcosmology, A New Paradigm of Relativity, July 2017 Chap 2
Macrocosmic Energy

In other works we learned about the cosmic forces Macrocosmic Centrifugal and Macrocosmic Centripetal energies within the Saincara arena utilized the process of svarúpa paríńama (sequential metamorphoses or homomorphic evolution) to evolve the five rudimental factors along with Cosmic Consciousness into particulate like particles usable within atoms and later the Pratisaincara arena. The two forces were known as Avidya' Shakti (external and dominant) and Vidya' Shakti (internal seeking) within Saincara and inverse in proportions. This was entirely within the Saincara area, an area without time as we know it, where energies are just developing and where space is not a function of our phenomenal world. What we are looking at from our personal viewpoint, is an area where the energies and waves are what Shrii Shrii Ánandamúrti calls supramundane (beyond or mundane senses). In philosophical and psychological terms this would be the area of higher conscious minds/stuff.

In this area of Saincara there is no what we call attributes. (See [discussion on attributes](#)) Supra mundane or dark energies have no attributes. There is no recycled matter (atoms) in the implosion process. Any such matter that is particularized during jadasphota (supernova) remains within the phenomenal world as protium and the other elements. A thing like radiation is an attributional item as are the sense recognizable items of the other factors that are within matter's purview. It is not that these factors are any materially different than the other factors within Saincara; it is that these factors within the atom are vibrating at a completely different level within Saincara than within the atom. Factors are recognizable only by their tanmátras (minute portions reflected and vibrating from the factors). All the products of jadasphota are within the phenomenal vibration levels except the (so called) gravity waves (or antimatter waves) and those are only recognized by the reaction of other material items around them.

Here we are developing Shrii Shrii Ánandamúrti's proprietary preposition of mind/consciousness from matter material thesis of matter from an immaterial world. We are creating matter from non-matter. Atoms are matter. They exist in a material world not the world of mind to matter of pratisaincara. This statement may shock some scholars that feel that there must be a very clear dividing line between Saincara and Pratisaincara. To see why you must look at the drawing called [The Cognitive Creative Material Universe with Microvita](#) . Notice the word Pratisaincara does not appear. Each item on the drawing outside the saincara area appears in the phenomenal world and is composed of material atoms. Atoms themselves do not progress on the path of

Pratisaincara towards emancipation. Yes, all the items within the philosophical path of Pratisaincara (including us) are composed of atoms but Pratisaincara is a mental path not a physical path.

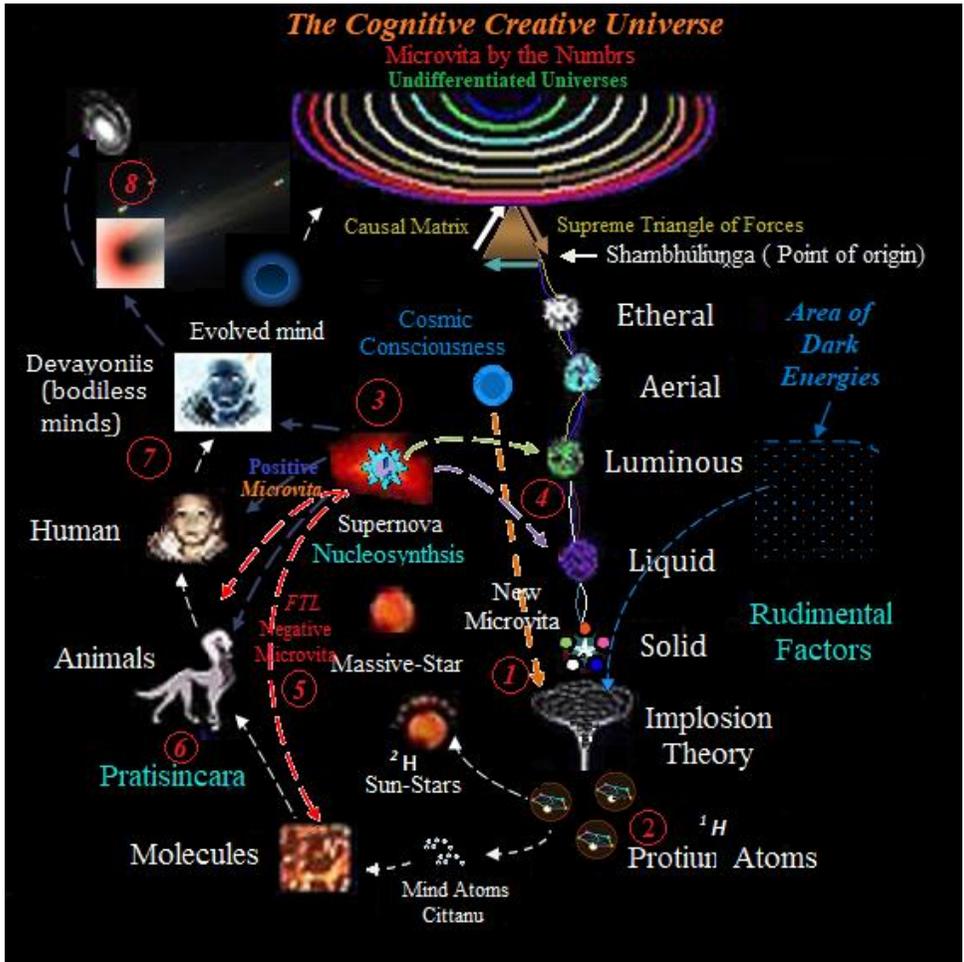
Macrocosmic hierarchy of microvita and matter

The Cosmic Life-cycle of Microvita

In order to understand the smallest state of quanta or quantum microvita particle, one must first understand the overall hierarchy of forces, energy, consciousness and matter. We as unit beings only grasp that small portion of our phenomenal universe that our consciousness (the unit's ahamtattva portion) can realize (make real) to our being. Many of these things and other universes exist outside our ability to realize them. If we can see the overall picture of our phenomenal

universe then we can understand how, why and where these quantum microvita particles come into our universe.

Combined walkthrough of microvita in our universe



The Combined Cognitive Creative Universe showing Microvita actions

Consciousness has arrived in our universe in two ways, original microvita and within the five rudimental factors. Through the process of svarūpa pariñāma it has come from the philosophical Shiva/Shakti process through the creative differentiated world to become particulated and solid factor in waveform. In terms of attributes the five rudimental factors have become positive relative to the negative

microvita in the creation of protium. Now consciousness is bound into the ordinary atom and dormant within the five rudimental factors.

Microvita is injected by the Cosmic Mind to enter approximately before 1st factorial Cosmic Citta in Saincara.⁹⁰ [Red point 1] Microvita are point-like with a collective mind. Super mundane energy (dark energy) is available also in this space-time. Dark energy is neutral as no charge or EM attributes exist in Saincara. Microvita as a quantum carrier of energy in all phases of creation collects the dark (neutral charge) energy in Cosmic Citta area. Microvita enters implosion area preprogrammed to the vibration of protium and with an algorithm for adapting to environment. This is an area of supramundane superluminal speed. In the implosion area it attenuates from its superluminal speeds into our relative light speed universe. It changes its angular velocity and gets what we call mass, spin and increased inertial energy component. Microvita energy becomes what Shrii Shrii Ánandamúrti refers to as negative (relative to the five rudimental factor nucleus) at this time. Microvita now has an energy component of ordinary matter. The five rudimental factor are particulate (in that it has relative pauses in waveform) and wavelike in form, having a relative overall positive charge entering relativity.

At the entrance of relativity, atoms (protium) have started the first phase of you phenomenal world [Point 2]. Their dark neutral superluminal energy has slowed and become ordinary atomic energy.

Consciousness appears a second way in matter, with microvita. Quantum microvita point-like with collective consciousness has been created in Saincara by the cosmic mind. It has consciousness of a collective type made directly in Saincara by the Cosmic Mind passing thru the implosion process. It arrives in matter as the subtle controlling mind in the atom. Microvitic subtle mind at all levels controls matter in its different formations. Subtle microvitic mind is locked in the atom as it proceeds through the entire material nucleosynthesis process. For many millions of phenomenal years microvita remains statically bound in the atomic process. Microvita has only one chance to proceed along through its psychospiritual path, jadasphota (Type 1a supernova explosion) [Point 3]. There some of the microvita is broken away from the destroyed nucleus five rudimental factors and recycled. [Point 4-5-6]

⁹⁰ Microvita are taking place within Cosmic Mind before the etherial level. Cosmic citta is needed first before it can conceptualize microvita. *From private notes of Acarya Vimalananda Avt., given to him in late August 1988, from Shrii Shrii Ánandamúrti*

Not all microvita is recycled in the process of jadasphota. When jadasphota occurs the inconceivably huge amounts of energy flattens *some* the waves (anti-gravity waves) of the particulate matter into the five rudimental factors. Flattening the wave in relativity at the speed of light means speeding up to superluminal (FTL) speeds.⁹¹ Dissociated material now recycles as five rudimental factors. Other microvita continue being attracted along the inferential and mental wavelength paths normally in biological usages. These few microvita have the chance to proceed as living entities along their limited psycho-spiritual path. Microvita does not die. Microvita is a living entity released from matter.

This also begs a basic question about fast jadasphota. Jadasphota is a destruction process, so where does the actual process of matter creation occur? Meaning it is a process that is not detected by or senses. But it must appear somewhere in our space-time because it does become matter and matter is within our space-time. The answer to why it appears within our relativity could be like this. There is microvita in jadasphota and it is then that waves are fattened (into longer wave forms) becoming faster than light.⁹² Original microvita takes on dark energy which in turn slows the speed, increases the spin rate causing the process of implosion to occur. This means that it is new microvita and factorials that combine in an implosion process to create new protium atoms. The microvita that are released in the explosive jadasphota process are recycled but not in the process of making new protium atoms, They are recycled in the physical, biological and mental world.

Saincara does not have to be appear as some exact red dividing line drawn on a piece of paper between the relative and super mundane universe. Time is a function of speed and light only in Einstein's phenomenal relativity equations. Time is actually a function of person. Microvita is a person that senses time differently than we do as unit beings in relativity.⁹³ The entire process could happen right here within

⁹¹In concomitance [together, at same time] with the variation in the curvature of the wave, the speed varies inversely. That is, when the speed of the movement [of the curvature of the wave, f] increases, the velocity [overall of the wave, v] decreases, and with the straightness in the curvature [λ] the velocity increases. [$v=f\lambda$] *Ism_and_Human_Progress.html* 1968 [brackets added by this author]

⁹²This phenomenal event of jad'asphota is nothing but the recoiling of the cosmic waves. These recoiling waves become straightened by the explosion. *The_Expansion_of_the_Microcosm.html* 1957

⁹³Depending upon the different types of movement, the mental measurement is also not uniform. And the sense of time is not the same in all spheres. *In_Adoration_of_the_Supreme.html* 1957

our universe. We do not have to personally see or experience it for it to be real to our cosmos.

These released microvita have the chance to animate life under certain environmental conditions. [Point 5] Their collective endoplasmic ability serves overseeing functions in developed life forms. [Point 6] As devayonis their positive and negative abilities help advanced humans. [Point 7] They have the ability to affect other things like asteroids and other space objects. [Point 8]

A Cognitive Creative Summary

In the final viewpoint, the universe is much grander than anyone could imagine. We see our universe evolving from undifferentiated energies/forces to the stable phenomenal world of atoms surrounding us. We understand how even the material world can be continuously recycled into factorial waves and then molded back into atoms.

We learn how basic mind units can be brought out of the ubiquitous Cosmic Consciousness inherent in every atom. How crude mind as waveform, coagulates in environmentally conditional situations and how point-like living entities called microvita can induce life giving energies in this structure to produce animation. How mind can evolve on the mental path called Pratisaincara and proceeds through mental-spiritual evolution, to its culmination.

We realize that we are not alone in this never-ending path. Point-like microvita are intelligently designed algorithms with different collective consciousness as sub-microscopic living entities. They carry force (energies) in all phases of creation to not only control atomic energies in the atom but they evolve to collectively assist evolved life.

The universe around us truly consists of consciousness that creates and recycles around us in unfathomable ways.

*Review of Microvitic atom with its four parts*⁹⁴

Because atoms have two parts -- the cruder part and the subtler part. Microvita also have two parts -- the cruder part and the subtler part. So far atomic research has been done taking into account the cruder part of atoms. The subtler part of atoms has not been investigated. *Some_Guidelines_for_Commencing_Microvita_Research_Section_B.html* 1989

⁹⁴ Bates, Raymond, Microvitology. Microvita Universal Subassembly Structures, Revised Electronic Edition, 2019 Chap 7

Subtle part

- Subtle microvitic mind
- Subtle dark energies controlled by microvita mind
- Cosmic bound consciousness

Crude part

- Tanma'tric bound Cosmic Consciousness containing (five rudimental factors)
- Included cosmic bound energies called Prákrta Shakti in theoretical Saincara and Citishakti when within the relative world of protium atom

Shrii Shrii Ánandamúrti stated - two parts of atom⁹⁵ and microvita, crude & subtle⁹⁶

Subtle parts - microvitic collective consciousness and cosmic bound dormant consciousness

Crude parts - ordinary energy in atom when dark energy from the microvita creates the primordial elemental atom (protium). The five rudimental factors are actualities⁹⁷ and might be considered crude because they are the crudest metamorphous of Cosmic Consciousness and are considered "dormant" mind.^{98 99}

⁹⁵ "The portion of atoms which have a close proximity to idea -- that is, the subtler portion of atoms -- is understood by spiritual practices. This part cannot be understood in physical laboratories only." *Some_Guidelines_for_Commencing_Microvita_Research_Section_B.html 1989*

⁹⁶ When the cruder part of atoms could give energy for atom bombs, nuclear bombs, etc., much more can be achieved by exploring the subtler part of atoms. You will utilise the cruder part for the physical development of society, but many great things can be achieved by using the subtler part of atoms. This is yet to be seen.

Some_Guidelines_for_Commencing_Microvita_Research_Section_B.html

⁹⁷ In the physical world, whatever the microcosm creates with the help of its physical structures is nothing but a chemical or physical transformation of the five fundamental factors created as actualities by the Macrocosm in the Saiñcara process.

Mind_Pranendriya_and_Vrtti.html 1959

⁹⁸ ;for although this great Shiva is difficult to discern in matter, where He is lying dormant... *Matter_and_Spirit.html 1956*

⁹⁹ Now, even in so-called crude matter there is mind in sleeping form, there is mind in dormant form... *Sadgurum_Tam_Namami.html 1978*

Inter-atomic and inter-ectoplasmic wave theory (Gravity)

“The Western scientific mind is asking what and how. Science is not asking WHY. The place to look for microvita is in WHY.” *Notes from Acarya Vimalananda Avt. of comments Shrii Shrii Ánandamúrti made to him in late August 1988*

“The Standard model of particle physics cannot account for how particles get their mass.” *Internet.*

Summary of forces and energy

When we think about consciousness, we tend to think about consciousness as we see it around us. We then assume that consciousness within the unseen area of creative Saincara is not different. This may not be a correct assumption. Maybe we should look at consciousness differently? Because we make this false assumption we fail to look at the relationship of consciousness with what we call gravity. By understanding how gravity affects consciousness it will be clearer that the same consciousness is in every part of our universe, material and non-material.

We can normally describe gravity as a force because it always is attractive to all material things. Gravity is only a *name* of the force describing what it does to material (and non-material) objects and how it appears to us. This is what Shrii Shrii Ánandamúrti would describe as a very materialistic approach to the solution. We need to ask “why” gravity makes those apparent actions.

If we take an object, say you, and put you in a car. We observe that you move from A to B as an object moving but do not mention that the reason why you are moving is because of the car and its forces; we are only observing. We are not giving ‘why’ answers.

Why gravity is in the atom apparently moving in mathematical trajectories is because of what it is and the forces moving it. What it is, is super compressed consciousness particles. We don’t recognize the force until it practically hits us in the face. Shrii Shrii Ánandamúrti described it as inter-atomic (material) & inter ectoplasmic (non-material) affinity and as an attractive force. It is a variable force because its binding strength (as a force) varies in accordance with its distance from particular particles. Its actual name varies in accordance

with its usage. What are those particles? Consciousness? Why we can't conceptualize this? Because of our lack of dimensional conceptions.

So far the factors involved in non-conceptualizing gravity are:

- Non-dimensional cell conceptions
- Variable usage (TPP) of names
- Understanding energy's involvement
- Ubiquitous variable attractive force of gravity

We will take them one at a time.

Prakrti/Shakti as the two names of the energy component of the creation, started out as sentient force of sattvaguña, as a binding force to degrade Shiva/Puruśa (Cosmic Consciousness) in creation. When her job became almost maximum (in the atom) she becomes almost static (tamoguña) but her continued external pressure causes two internal reactive new microcentrifugal and microcentripetal forces at the creatom point in the material atom. We see that there are only two virtual forces in our phenomenal world and one over all binding principal within the consciousness/energy creative duo of Shiva/Puruśa – Shakti/Prakrti. The strength/measurement of them are called Sattvaguña/Tamoguña depending on their place and usage. Within the atom we now have these two reactive forces renamed as [micro] centripetal Vidya' Shakti and [micro] centrifugal force Avidya' Shakti. It appears He actually reverses the names of the forces from Saincara to the phenomenal world. [Macro] centrifugal force exterior [Avidya' Shakti] becomes [micro] centripetal interial (attractive force) now [Vidya' Shakti].

This [Macro] centrifugal force of Saiñcara results in the creation of a [micro] centripetal force in material structure. The more the process of Saiñcara advances, the greater its momentum, and the stronger the internal force of attraction within the structure. *Struggle_and_Progress.html*

His naming of the forces results from His considerations of what direction they are moving to/from an important nucleus. In Saincara the Macro centrifugal force (Avidya) is moving away from the center of cosmic consciousness. In the atom the [micro] centripetal (now Vidya' Shakti) is moving objects towards the center of the atom.

Now comes the big question; can one of these two forces in the atom, the attractive force [micro] centripetal now Vidya' Shakti, holding the atom together be called gravity in scientific language?

If we look at the centripetal attractive force as gravity the then other would be anti-gravity. But if we look closer we see that that

cannot be the case. To be centrifugal is a synthetic force. An example is a ball on the end of a string. The ball gets thrown outward when released by the inward pulling string. The use of the word ‘attractive’ cannot be used here to describe centripetal for the action of the string/center.

Notice here He said “*and* the stronger the internal force of attraction within the structure.” The stronger force of attraction is within the atom but it is not coming from the synthetic centripetal action. Centripetal action is not gravity; it does not have an unlimited (and small) attractive force on all objects.

It might be interesting to note that Shrii Shrii Ánandamúrti never mentioned the word gravity as a force related to atoms or mass.

So where does the force of gravity come from? The key here is in the word attractive and repulsive. Explosion in bomb or exploding supernova is repulsive. That is an energy reaction. Energy always goes from structure to structure sometimes explosively. Energy is function of the binding of Prakrti. The other content of the atom is Puruśa, modified compressed consciousness.

The more the process of Saiñcara advances, the greater its momentum, and the stronger the internal force of attraction within the structure. *Struggle_and_Progress.html*

He was actually talking about three forces in the atom. Two synthetic forces and a field force. We just normally assumed that because he mentioned “stronger the internal force of attraction” we assumed He meant micro-centripetal because it causes objects to appear to be attracted to the center nucleus. He simply did not mention a specific name of gravity (because He never used that name) and He has described it (the force) fully before, only not in the context of the atom.

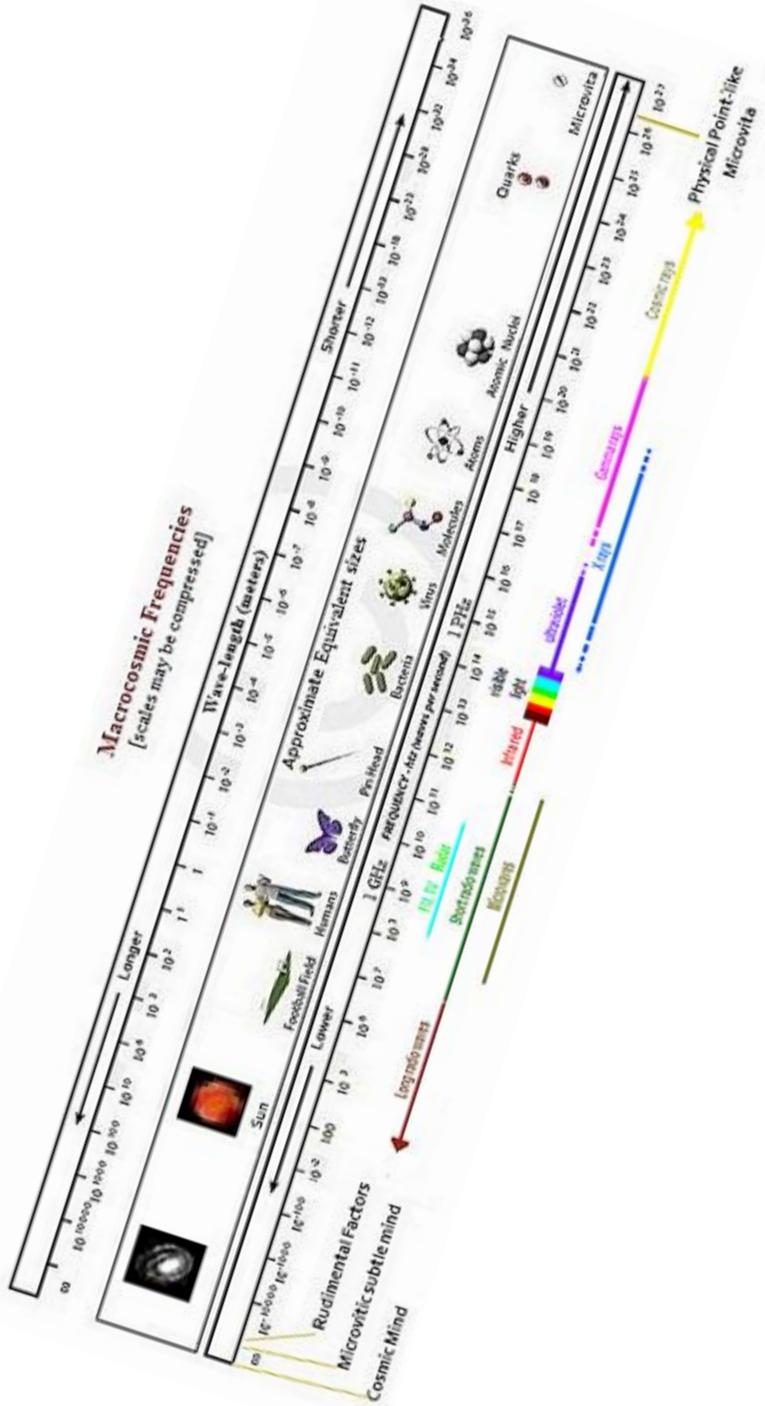
“Philosophers never made good physicists. Ask any physicist.” *Unknown*

Physical and mental cells

Here we are explaining the differences in ectoplasmic cells both physical and mental. That is not easy because Shrii Shrii Ánandamúrti sees and simultaneously describes things in both the macro and micro viewpoint. Although He may see things in both cases as multiple interactive wave functions, we look upon things in purely a physical viewpoint. In reality, size in this Cosmic Cognitive universe is a

function of wavelength.¹⁰⁰ Here is physical description of the wave lengths involved, in drawing form:

¹⁰⁰ The minuteness or vastness of an object is determined by the wavelength of its vibrations.
Shivas_Teachings_2_continued_Discourse_15.html 1982



Visual comparison of universal sizes

Each object in our phenomenal universe has a different natural entitative wavelength. This is an approximately common vibration (wavelength of each object) that Shrii Shrii Ánandamúrti refers to as entitative when describing common objects like atoms and objects. For all observable objects it is a varied combination of secondary attributes (observable) wavelengths. For example natural protium (atomic hydrogen) produces radiation at a resonance frequency of the atom of $1420405751.7667 \pm 0.0009$ Hz which is equivalent to the vacuum wavelength of 21.1061140542 cm in free space.¹⁰¹ What this means is protium atom vibrates about 1.5 trillion times a second at a wavelength of about 21 cm and that compares to an approximate size of an object about ten trillionth of a meter.

Using the rough approximation of the different size of objects in our universe you can visually see that the Macrocosmic Mahat factorial waves started out as unimaginably long waves and were compacted by the cosmic tamoguña force approximately 100 trillion times smaller until (through the process of implosion theory) the same factorial wave became the nucleus in the atom. Its wave length went from a incomprehensively long wave to the smallest length in the universe and vibrating maybe 1.5 trillion times a second, while its spiritually/physically oriented mind became dormant. Of course in this entire paragraph the amounts are just rough approximations but you may have some idea of the sizes involved.

Why is this important? Because the longer wavelength can control (in the sense attract) the shorter wavelength.¹⁰² That same atom (protium) has also the controlling subtle mind of the microvita part in that atom. When the nucleus core (of Cosmic Consciousness waves) is compacted and dormant, microvita provides the algorithmically designed control with its accompanying dark energy. It controls the energies in the protium atom. The five rudimental factors only provide the super dense nuclei. The two resultant forces are only synthetic spin forces that balance the atom. Spin and energy control are what determines the so-called half-life of any atom. Microvita simply

¹⁰¹ https://en.wikipedia.org/wiki/Hydrogen_line

¹⁰² A wave can pass through an object where there is no physical obstruction or hindrance from a subtler wave, that is, subtler waves can pass through cruder waves; and under such circumstances there is always an adjustment of wavelengths resulting in the creation of physical diversities.

Bhutattva_Tanmatratattva_and_Indriyatattva.html

[Longer waves pass through physically manifesting objects. The energy-amplitude component of the longer wave will cause change in the major or minor wavelengths of the object.]

controls the balance of energy between the five nuclei depending of the environmental conditions.

If we look at atom in the above drawing and then at the electrons wavelength (size), the five rudimental factors are compressed trillions of times (or more) from their original very long wavelengths. Microvita are billions of times smaller than atoms and use quantum size energy particles to stabilize the very atom. We cannot imagine how many times bigger than an atom, a single molecule of dust could be, that He describes in cloud coagulation and how much bigger this could be than the theoretical compressed five rudimental factors or microvita. Yet this intra-attractive force (in the cloud coagulation example) exists inside every compressed consciousness factorial in every atom in the universe. And this same attractive force acts on everything material and non-material throughout the entire universe. No wonder when so much of it collects together it is called gravity by us. Scientists mistake it as the smallest 4th force inside the atom and they can't even find it in the atom; nor tell how it works. This intra-attractive force is a Macrocosmic attracting universal force of waves, not a creating or individual unit holding force of the individual atom. Prakrti (tamoguña in this case) is the Macrocosmic binding force binding consciousness within every atom until we can observe it being released at times like *jádasphotás* (supernovas) and appearing as 'gravity waves'.

Increase in friction

When Shrii Shrii Ánandamúrti says "increase in friction", He does not mean a boat pushing through waves, or rubbing to items together causing heat. Heat is only an apparent cause, is only one of many reactions to a decrease in intra-inter-atomic spaces. To Him there can be frequency increase, wavelength change, chemical affinity changes, intra-inter ectoplasmic changes and energy bonding changes like covalent and other bonding changes in molecules and last but not least what He calls attributional changes.

Classical physics defines energy as: a fundamental entity of nature that is transferred between parts of a system in the production of physical change within the system and usually regarded as the capacity for doing work.

Energy is basically intransigent in every atom, is controlled by microvita and leaves only when it has another structure (material or non-material) to go too. We saw above that the energies in the atom are Citishakti in the rudimental factors (dormant) and ordinary (was dark

energy) used inside microvita. The energy of Citishakti is dormant within the rudimental factor, ready to be used if the proper environmental situation comes up (jadasphota).

In Shrii Shrii Ánandamúrti's descriptions of energy, we must rely on the fact that every force requires a stimulus or energy cause, to be a force. In the atom the stimulus for the microcentripetal force is the Macrocosmic centrifugal field force. It is the further cause of the friction within the atom. The resultant is a central positive outward seeking microcentrifugal force. Microcentrifugal is normally a synthetic force like the tangential force on a ball at the end a string. Here Shrii Shrii Ánandamúrti specifically defines the cause of the increase of microcentrifugal force as energy held in the structure and increased by the microcentripetal force causing increased friction. He defines energy as the difference in the two forces.¹⁰³ Energy does not come from nothing. Where does it come from? From the dormant Citishakti energy quiescent within the solid factorial central structure *and* from the Macrocosmic field force (up to a point) *and* additionally by inter-atomic attractive affinity.

The energy remains and maintains the structural solidarity of each and every entity of this universe by taking the form of its container according to the structural solidarity of the different entities. *Energy_and_Cognition.html* 1978

Gravity in the End

In the end one must consider all the forces of the Universe from a macro concept. Where does the truth lie in gravity as a force? Is Macrocosmic Balam as tamoguña like force, gravity? No, Balam is a shakti force in Macro situations given authority by Prakrti to bind consciousness. Although it is a friction, ubiquitous and compressing force in all realms of use, its only grasp at being similar to a gravitic force lies in its compressing ability. That very ability loses all respect when we consider that in microcosmic situations its grasp becomes lost and its actions can become reversed in micro situations (like [Yukawa potential force](#)). Shrii Shrii Ánandamúrti definitely tells us the Balam

¹⁰³ As a result of this bala, two opposing forces develop, one centrifugal and the other centripetal in character. *Saincara_and_Pranah.html* 1959 A guña becomes balam [energy] when functioning within the scope of matter. *Jaeva_Dharma_and_Bhagavata_Dharma.html* 1971 The collective name of these external and internal forces is práña, or energy." *Saincara_and_Pranah.html* 1959

becomes bala (or ordinary energy force) in the phenomenal atom situations.¹⁰⁴

What about consciousness itself being labeled as the ubiquities gravity name? The five fundamental factors seem to be a very prominent suspicious character for the gravity nomination? They have all the ordinary perquisites. Compacted density in the atom. Materially attractive. Involved in both mundane and super mundane areas. Except for one BIG problem. Consciousness is not a force and cannot become one. The only force within consciousness is Citishakti. That is an explosive energy (when released in the supernova and phenomenal world) and in Saincara it is sentient and active but only in the respect of it being qualified and bound by Shakti. It is bound inside the five rudimental factors all the way to the atom. It's not attractive; it is explosive and shows it force in supernova explosions.

What about the two forces in the atom? Both are essentially concentrical spin forces. One spin inward and one spin outward, in the atom. If their spin becomes zero then their resultant vector, defined as force becomes zero. Not very ubiquitous at zero and where is the force in objects that may not be spinning like biological objects and stationary planets etc? So-called gravity is still there.

The last constituent to the question is microvita. There again we run into a major problem when we put microvita in the class of creating gravity. Shrii Shrii Ánandamúrti definitely tells us that microvita are point-like and more idea, than matter. Although they are entities, they only utilize energy to transfer and control of it from place to place. We already learned that Einstein's ideas about gravity being a mass/energy equation are not what Shrii Shrii Ánandamúrti considers, in His wave theory of gravity. So microvita being the enabler of gravity is not conscionable.

This is exactly why Shrii Shrii Ánandamúrti never mentions gravity in all His dissertations in the sense that we normally think of gravity in classical physics. It is not a normal force that is sense detected. Gravity is a non-material wave force that becomes sensible only when its emerging attributes arrive within our sensing range (or extensions thereof).

¹⁰⁴ A guña becomes bala [energy] when functioning within the scope of matter. Jaeva_Dharma_and_Bhagavata_Dharma.html 1971

Shrii Shrii Ánandamúrti uses many different types of charges, adhesion, affinity, attractions, frictions and coherences in many different places with many different causes and effects. Here we will explain the differences in affinities and how they differ in the atomic and ectoplasmic usage.

Ectoplasm is a mental cell. Cosmic Mind evolves in the macrocosmic process of svarúpa parińáma and eventually mind arrives at the final microcosmic unit citta process. In the Macrocosmic sense this is typically described as cosmic citta or cosmic ectoplasm. It contains all the elements found in both matter and later forms matter into the elements in the unit microcosm. Except atoms are physical, containing physical parts (the five rudimental factors) degraded as physical particles from cosmic mind stuff. Atoms have minds but the mind inside the five rudimental factors in the atom is dormant. The mind in the atom in microvita is very subtle and cosmic collective mind not unit type mind. Therefore there is *no unit type ectoplasm* in the atom.

We have unit type ectoplasm in us. It comes from the atom, yes but from the compressed five rudimental factors part of dormant cosmic mind. Remember Cosmic Citta mind stuff has all the components needed to make the unit microcosm within the Cosmic Mind. The small micro-cell like stuff is called cittánu (the smallest component containing all the attributes/abilities to make the microcosm mind). Notice we did not say life, as that is microvita's purview.

So we have two separate type of ectoplasms (macrocosmic and microcosmic) working in two different arenas in the Cosmic Cognitive process both have inter and intra ectoplasmic affinities and abilities. The difficulty lies in determining what and how these affinities and abilities are and what is their affect.

Shrii Shrii Ánandamúrti gives the best examples of inter and intra ectoplasmic abilities in the unit's mental ectoplasmic cells when He compares the physical characteristics of cloud coagulation through a cloud like analogy¹⁰⁵. Here He doesn't actually give the attractive type coagulation a specific name but later He describes the name as inter-ectoplasmic affinity^{106 107}. Basically it is the attractive affinity process of

¹⁰⁵ It can best be explained with the analogy of the cloud. Imagine there is a tiny patch of cloud in a corner of the sky. Gradually it expands its size until it covers the whole sky. This is ectoplasmic expansion. *Ekendriya_1.html 1981*

¹⁰⁶ Spiritual practice (sádhana) means to powder down the ectoplasmic structure with the help of opposing forces. That is, sádhana is a process of struggle against the inter-ectoplasmic affinity. *The_Macrocosm_and_the_Microcosm_1.html 1959*

matter (small dirt particles and moisture) to attract other particles together and then in this case, to drop as rain. Gravity as we know it is not a physical function here of the process.¹⁰⁸ As an example of intra-ectoplasmic affinity He describes how physical particles of (in different cases) matter or non-matter (mind) cause powdering down of the contents of the cells (through increased friction due to decreasing the inter-ectoplasmic spaces between both the external physical or mental ectoplasmic cells.

Intro to Intra-Inter ectoplasmic affinity

Inter-ectoplasmic affinity is a mental term...the material term is inter-atomic affinity.
This author

As the ectoplasms begin to drift away from one another their collective vibration feels more and more affinity towards the collective Cosmic waves...
The_Macrocosm_and_the_Microcosm_1.html 1959

According to the degree of density of the ectoplasm there is tremendous internal friction. Whenever the microcosm comes in contact with matter, it is drawn away from [attracted by] its original stance by the material waves. *The_Macrocosm_and_the_Microcosm_1.html 1959*

It is called intra and inter ectoplasmic affinity/force and is a function of wave relationships among all material and non-material (mental) structures. Here is how it works.

Intra and inter ectoplasmic affinity/force is an actual characteristic of waves, not an emerging attribute. Emerging attributes are caused by changing the freq/energy of the major or minor wave form. Apparent gravity forms as a function of the original five rudimental factors of the atom due to the close intra-ectoplasmic affinity between the closely bound waves constituting the bound (Puruśa/Shiva) Cosmic Consciousness waves. Gravity as a field is not energy. Gravity is an attractive force, energy is not. Energy is repulsive force.

Ectoplasm in unit minds also has affinity, because it contains units of mind-atoms (cittānu). As the bigger unit ectoplasm coagulates (like in cloud analogy), this increases the mental abilities in unit mind called “Inter-ectoplasmic affinity”. That is also an ectoplasmic cell function causing friction and “psychic atoms” (cittānu) to be powdered down and expand into the universe. Ectoplasm is inter cell attraction

¹⁰⁷ As the ectoplasms begin to drift away from one another their collective vibration feels more and more affinity towards the collective Cosmic waves and finally they merge themselves in those Macrocosmic waves. *The_Macrocosm_and_the_Microcosm_1.html 1959*

¹⁰⁸ I believe this has been demonstrated in gravity-less situations.

whereas intra is an intra function within Cosmic Conscious waves bound in the individual. This is two different functions of inter-intra affinity of waves. What we call gravity is intra-inter consciousness wave affinity; not a function of mass or energy.

Inter/intra-ectoplasmic expansion

The intra-atomic affinity and increased microcosmic centripetal spin causes friction which results in energy within the structure. In both cases, the inter/intra-atomic affinity decreases in atomic space causing increased friction within the cell (we see temperature increase as friction). In the case of physical cells this causes many secondary attributional material changes, like chemical affinity etc. The difference in the two processes is only in the wavelength of the concerned waves.

In the atomic structure, The shorter waves are working in a microcosmic venue with Macrocosmic centrifugal and microcosmic central acting spin force tending to further shorten the wavelength, until the resultant microcosmic centrifugal forces equalizes at the nadir point. The atomic structure is not broken apart until the final point of jadasphota; there the atomic structure is completely destroyed and cosmic recycling occurs. Therefore intra-atomic affinity has caused the entire dissolution of the concerned wave, meaning it can no longer be called affinity. The process of intra-atomic affinity has been overcome by the other forces until destruction occurs.

In the case of mental ectoplasmic cells, the wavelength is much longer and the distances involved are (probably) billions of times bigger. The frictional increase is usually called clash and results in powdering down of the larger conglomerate cells into smaller particle like cells called cittánu that are driven off. Clash or wear & tear, is a slow dissolution process, not a rapid process. The cruder (shorter wavelength) wave conglomerations tend to be attracted to the more materially based structure (here unit citta ectoplasm of more material structures). When they are broken up they can be attracted to the longer wavelength (here called spiritual) structures. This is why spiritual structures are called higher wavelength structures. Cittánu are unit mental mind stuff and can either evolve spiritually into higher mind stuff or devolve and coagulate around matter depending on their outside mental influences (In humans called guiding psychic faculty). This process is a mental choice and can only occur within the developed human mental structure. A choice of degradation of wavelength toward cruder objects is noted as negative pratisaincara. Part of the characteristics of these cittánu mind particles/atoms are that

they each contain the basic constituents of any consciousness particle, be that macro or micro. In this case the micro unit, the ectoplasmic cell has both existential and knowing faculties¹⁰⁹. This is why the process is called inter-ectoplasmic expansion; whereas it is actually an inter-ectoplasmic attraction process towards the longer based higher ectoplasmic (spiritual) structures.

In conclusion we can see that the process of intra-inter atomic-ectoplasmic affinity is one of attraction. Whereas in the atom it is highly concentrated in every material object and eventually results in jadasphota recycling, unless the atom becomes biologically utilized. Even then, when mental adaptation of form/structure is evolved through the life giving process by microvita, still the ectoplasmic process is one of attraction to the now closer defined waves.

¹⁰⁹ These facilities are completely explained in This is completely described in Bates, Raymond, Macrogenesis, A New Paradigm in Consciousness, E-edition, April 2016 Chap six Structures of Consciousness

Mass, that is the Matter

Gravity is a non-material wave force that becomes sensible only when its emerging attributes arrive within our sensing range (or extensions thereof). *This author*

In classical terms the “mass of matter” determines the strength of gravity/mass and is a function of energy ($E=mc^2$).

Shrii Shrii Ánandamúrti’s states:

The mass of matter has got nothing to do with energy.

Matter_and_Abstract.html 1989

Then according to Shrii Shrii Ánandamúrti’s words: *if “mass of matter has got nothing to do with energy” then energy is not the intrinsic cause of gravity.* Therefore, if mass is not synonymous with energy in gravity functions; then using Shrii Shrii Ánandamúrti’s original constituents of matter; gravity must be connected with solidified five rudimental factors of consciousness. The five rudimental factors in atom are compacted condensed solidified cosmic consciousness which individually in each atom doesn’t seem like they could produce much in terms of gravity; but added together in material objects, produce the long range effect of what we call gravity.

If that is true ...then why is light (which has huge amounts of energy) attracted (curves towards) towards other star, in what scientists call “gravity lensing”? Sorry to say again, that just because scientists give new names to things and say that they are true...It does not mean that is so. What the sun has is huge amounts of sun waves vibrating at specific frequencies. Near the same frequency of the very light waves that are used to detect this “gravity lensing” phenomena.

Intra-atomic affinity is the cause of light rays bending towards the sun, not the “gravity” of energy.

The mass [as in $E=mc^2$] of matter has got nothing to do with energy.

Matter_and_Abstract.html 1989 Insert [] by this author

About the gravity question. Let me state from the very beginning, Shrii Shrii Ánandamúrti in His thousands of dissertations and hundreds of books never once mentioned gravity in a physics related manner. Certainly He knew of the term and used it in a literary descriptive manner. He had His own term for the force we observe as attractive at all distances and especially that force which we apply measurable quantities too, like the inverse square of the distance functions. Maybe

that seems rather unusual that He had His own word, since gravity has been a very materialist measureable force for hundreds of years since Newton and reinforced in the physical observing community empathically, with Einstein.

Normally, I do not use unsubstantiated information. Almost all material comes from official publications except where it is specified. But, I have tried to remember where and tried by asking many persons about what Shrii Shrii Ánandamúrti said about Einstein. He rarely mentioned individuals in official dissertations and talks but did talk frequently about individuals at undocumented times, especially around Acaryas and sometimes on field walks with other individuals. Anyway, unsubstantiated rumor was that He said, Einstein was a very intelligent person he didn't quite have it right about his famous equation. Maybe the below explanation was why?

Shrii Shrii Ánandamúrti did not think in materialistic terminology. His concept of what we refer to as gravity was based on wave theory. Normally we do not see or think of waves except in the physical sense like ocean and electronic power waves. His similar name for gravity is called inter-intra atomic and ectoplasmic affinity¹¹⁰. Sounds like big names that have a very different meaning in accordance with the exact usage. By that I mean, in accordance to whether it was a physical atom mass waveform usage, or in a non-material mental waveform usage. The process was basically the same but the application appears different.

In the physical sense of atomic structures there is inter-atomic affinity. It is an attractive force based on the material density of the various *solid factor* nucleon distances. It may function in accordance with the inverse square root of the distance. Shrii Shrii Ánandamúrti never mentioned a formula but since it works entirely in the same attractive manner as gravity in classical theory, it probably uses the same mathematical formula.

It is the same waved based theory of mutual attraction of similar (especially shorter, denser waves). In physical atomic size structures it is called the negative attractive force of the Yukawa potential force. At close atomic distances it becomes a repelling force that eventually causes the explosive supernova.

¹¹⁰ Described more fully above in *Intro to Intra-Inter ectoplasmic affinity*

In the inter-molecular arena of elements, it is the force that holds and aligns molecular elements in basic matrix-like crystal formations. Microvita aliens and keeps the energies balanced.

In more non-material ectoplasmic structures it is called inter-ectoplasmic affinity. Denser-shorter wave length waves attract more subtle waves. At this non-material level it causes a slower mental clash and the resultant 'powdered down' mental ectoplasmic objects, are called cittańu.

Attraction between near waveforms is Shrii Shrii Ānandamńrti's inter/intra atomic-ectoplasmic answer to classical gravity. It is not new. It has been around since the 1950's. The basis of how it works is that the fundamental factors are in every structure in the universe. They consist of moglified cosmic consciousness in various factor strengths, in different material and non-material forms. It has the same classical characteristics gravity has:

- It is the only interaction that acts on all ordinary matter (and non-material) particles having apparent mass (five rudimental factors)
- Has an infinite range, like the electromagnetic force but unlike the strong and weak forces
 - Cannot be absorbed, transformed, or shielded against
 - Always attracts and never repels. (except in close nucleon encounter case)

The secret is that wave structures are not fixed (as in mathematics) but variable. They are always changing, from the longest to the smallest quanta. Physical waves can proceed through nucleosynthesis to recycle or take the expanding matter-to-mind cycle. Always moving with the energy that powers the entire universe.

As a physical example of intra-atomic affinity, Shrii Shrii Ānandamńrti referred to it as centripetal affinity in the physical forces of the atom. It was called attractive because it (combined with Macrocosmic centrifugal force) drawing every object (including waves) towards the central cosmic nuclei. Seeing it as a mental wave attraction is less obvious. Wave forms themselves are attractive under certain conditions. If the wave form is in harmony (harmonic attraction) with each other, they are attractive;¹¹¹ except in the specific case of nadir point in atomic affinity, no possibility of any further reduction in the

¹¹¹ A wave can move freely only when it is in harmony with previous waves and their curvatures. *Bhutattva_Tanmatratatva_and_Indriyatatva.html 1959*

inter-atomic spaces. So harmonic attraction can only be towards the atomic center.¹¹²

Maybe a short explanation of those two quotes is in order. “In harmony” means ‘as attracted too’ in the sense of mental waves are freely (here longer waveform) ‘attracted to’ cruder (shorter waveforms).

Regarding the Macrocosmic centrifugal quote, In Saincara the Macrocosmic Centrifugal throws/causes wave/particles to be thrown outward from the cosmic nucleus, causing clash-friction. Normally one would think that particles/waves would disperse in this situation; but inter ectoplasmic affinity causes the subtle (longer) waves/particles to be attracted towards the now broken up cruder (shorter) waves/particles. This normal attraction of waves, process happens both in Saincara and in relativity. The defining point is that ‘no two objects can occupy the same space’, which tries to happen in supernova explosions.

We see more psychic/mental examples around us every day. Chromatic affinity to others is a result of your mental makeup (sam'ska'ras) either brought forward from a past life or acquired in this one. Everyone has feeling of affinity (or opposite dis-harmonic feelings) towards the people and situations around them. In the psychophysical mental sense this is inter ectoplasmic affinity. In the material and atomic sense waves are attracted to the shorter (cruder) wave.

The exception is within the advanced mental or developed mind type. In this case the developed mind type has a developed strong mental force can ‘speed up’ gives it more sattvic energy and speed, moving the more subtle (longer) wave against its natural affinity.¹¹³ It produces a *microcosmic* centrifugal reaction. The same more material type of repulsion happens within the more material atom at its nadir point. The central internal centripetal movement becomes repulsive and becomes centrifugal and outgoing from the nuclei and centripetal and attractive towards the Cosmic Nucleus. In physical nucleus sense, it reacts to become supernova. In the psycho-spiritual case of the developed and evolved mind (usually human) it becomes farther away from the other ectoplasmic (cittáñu) atoms and closer to the Cosmic Nucleus. The mind (person) evolves spiritually. In Shrii Shrii Ánandamúrti's terms, this is why psycho-spiritual clash causes the

¹¹² When the centrifugal force of the Cosmic Cycle in Saincara remains dominant, one particle comes in closer contact with another particle - their relative distance decreases.

[Struggle_and_Progress.html](#)

¹¹³ Shrii Shrii Ánandamúrti calls this case guiding psychic faculty

spiritual aspirant to make spiritual progress (spiritual evolvement) towards that Cosmic Nucleus.

Some ideas for proof

Possible proof of Shrii Shrii Ánandamúrti's intra-inter atomic affinity theory of "gravity lensing".

Frank Watson Dyson and Arthur Stanley Eddington in 1919 completed the observations of the total solar eclipse of 29 May 1919 which in turn authenticated Einstein's famous 'General Relativity' theory $E=mc^2$. Einstein became the first to calculate the correct value for light bending: 1.75 arcseconds for light that grazes the sun. The experiment was based on photographing and measuring the deflection of starlight passing near the sun during a total solar eclipse.

In 1989 Shrii Shrii Ánandamúrti hypothesized that intra-inter atomic affinity is the cause of light rays bending towards the sun, not "gravity" or energy as the cause.

The mass [as in $E=mc^2$] of matter has got nothing to do with energy.

Matter_and_Abstract.html 1989

Insert [] by this author

Currently much so-called proof of Einstein's theory has been brought forward with modern 'gravity lensing' demonstrations like using cold stars like white dwarf or neutron stars to be the object of the proof.

To prove Shrii Shrii's Ánandamúrti's intra-inter atomic affinity light lensing theory we will have to develop new and modern experiments. For example:

Modern collated laser light has a very closely and synchronized light frequency source. Laser light has a large range of frequencies and color. A similar experiment to the 1919 Eddington experiment could be adapted using a space vehicle passing behind sun at some distance using a very specific and tuned laser sending a very straight light back until the edge of the sun cut off the light. Then the timing could easily be calculated for the exit timing and calculate any variance.

The experiment could be repeated over the wide range of laser light sources. Should the vehicles distance and time become a factor; then multiple color lasers can be attached to same vehicle. Gravity lensing only shows that light does get bent by strong other light sources; not the so-called gravity does the bending. This experiment

would allow a correlation of the specific frequencies and show the differences in different lights affinity; not gravities' affinity to light. Wavelengths (frequency) have a greater affinity to other similar frequencies. Cruder frequencies (of light here) have greater affinity to cruder light (for example infra-red laser frequencies). These proofs will show that mass (gravity) has nothing to do with the photon's energy but has instead an affinity to other similar wavelengths.

SUMMARY

Why would someone who could describe the emergence of our mind from ordinary matter, need to know about the latest 1927 Copenhagen or Wigner Von-Neumann interpretation of the responsibility of consciousness in a wave function collapse?

He knew that wave functions are an inherent property of every object in this relative universe, not as an emergent functional measurement requirement for the statistics of wave collapse. He understood consciousness from the elemental level of entering into consciousness within the atom, microvita, the cosmos and even us.

He didn't need to understand the mathematical integrations of $E=mc^2$ to understand that gravity is an intrinsic function of inter-intra atomic wave affinity not of mass and undefined energy.

He saw life as emergent of matter becoming animated by quantified microvita and evolving mind being a functional coagulant, of animation in evolution.

He described the creation of our universe and its evolution from a far different hue of collective intelligent microvita that not only can create atoms but modify physical/mental waveforms. To Him, the universe was recreating, recycling and entropic in ways we could not imagine.

He saw the universe of inherent characteristics, not the apparent emergent attributes that we sense.

He saw, used and demonstrated how microvita lived, changed consciousness and maintained the world around us.

Shrii Shrii Ánandamúrti could literally intuit the world of atoms and the forces of the cosmos.

Maybe the answer is for us to stop thinking like Schrödinger's cat in the box and think 'out of the box'.

A new world of consciousness, awaits us there.

Some questions answered

Q &A

If one is physics or astrophysics minded, then one may have a couple of questions about a central force theory of atomic energy verses a proton-neutron-electron, quark-boson theory of atom construction. For example:

Q> How does the central spin related theory account for things like the strong force in quark-boson theory holding the atom together?

A> In central spin atomic theory there is no proton-neutron-electron spin problem simply because there is no problem holding the central mass together. The central mass is one solid compact mass of rudimental solid factor consisting only of compressed cosmic consciousness which inherently contains citishakti energy. There is no need for strong force boson energy transfer. Microvita does not cause resistance problems in the spin of the central body because microvita is a swarm formation independent of the central mass and account for almost none of the mass (about 1/1863). Whether they rotate in orbit or not, is immaterial with the theory. It is well known that the atomic distances involved between electron and central mass in classical theory are relatively huge and there is no resistance problem between objects at those relative distances concerning things like apparent drag resistance to spin. Microvita are force energy carriers in all phases of creation and in the atom they are energy controllers.

Q> Then what does the central forces of centrifugal and centripetal forces have to do with creating gravity?

A> Actually nothing, except for holding the solid factor nuclei together and providing the central forces to help keep energy in the structure. Its inter-atomic affinity that produces the force we call gravity.

Q> Where does the energy come from inside the atom?

A> Force mechanically controls or allows the action of energy between structures. The difference between the two forces (central) is the definition of energy in the atom. Friction is caused by external Macrocosmic centrifugal tamoguña field force causing the factorials to compress. When the interial limit is exceeded, friction as the microcosmic reactionary repulsive (Cosmically attractive) force of microcosmic centrifugal causes the pent-up energy in the factorial structure (Citishakti) to explosively expand into the cosmos.

Q> Where are entropy and the conservation of energy in Shrii Shrii Ánandamúrti's system?

A> Cognitive Universe is not a closed system in the phenomenal world we live in. Microvita enters from cosmic consciousness nucleus through the extended world of Saincara and Saincara comes from Cosmic Matrix. That is not a closed system. Scientists say we must have closed system because that is what they see in the phenomenal world. They say we have an expanding system (some do) and so it may appear. But the astrophysics we observe shows supernovas and black holes. Those are recycling systems. Energy pours out of black holes just as in Saincara dark energy pours into the implosion/atom sequence. Those are not entropic closed systems. There will never be a thermal death of the universe.¹¹⁴

If atoms contained ectoplasm; then atoms would die or disperse. *This author*

Q.> If the five rudimental factors are solid actualities¹¹⁵ or physically a part of the atom: Why can't they be part of our physical world?

A> Because it was part of the collective Cosmic world of unseen Saincara until five rudimental factors solidified and microvita took control on its existence in our phenomenal world. There are two parts of the atom. Microvita and five rudimental factors parts use collective consciousness but the unit part is physical in our phenomenal world of which we observe the reflective waves as tanmátras. Think of it like this. Neutronium in a neutron star is very dense and has all its electrons stripped off. It is an attractor. That is, when the outer shells of matter burnt off in nucleosynthesis, the energy was released and the shell collapsed and neutronium remained. Was not that neutronium still a physical object? It already is working up the stellar nucleosynthesis evolutionary structure as an actual unit structure. Microvita is controlling the structure by simply balancing the energy forces as they change (mostly) energy heat states.

The question was “Why can't they (five rudimental factors) be part of our physical world?”

The answer is “They are.” Just as neutronium is part of our physical world. They (five rudimental factors) are physical attractors.

¹¹⁴ There can't be a thermal death of the universe. The solidification of the object will result in Jadasphota. *The_Future_of_Civilization.html*

¹¹⁵ In the physical world, whatever the microcosm creates with the help of its physical structures is nothing but a chemical or physical transformation of the five fundamental factors created as *actualities* by the Macrocosm in the Saiñcara process. *Mind_Pranendriya_and_Vrtti.html 1959*

Basic nucleus attractors of energy. They attract energy (of specific types) and microvita controls the balancing of the energies in accordance with the environmental requirements. That's really all the neutral microvita does. It senses the environment and adjusts the energies around the five rudimental factors to exist within those parameters. They are "intelligently designed algorithmically pre-programmed sub-assembling algorithms". Physicality to us is a function of the tanmátras that can be perceived by our senses. The five rudimental factors at this point in atoms are compressed as particles with such short wavelengths that the tanmatric wave is reflected back towards our senses but the quantity of waves received from such a small factorial is not sufficient to activate the physical senses.

Q> Is Supreme cosmic consciousness released as a result of jadasphota?

A> No, not as free microvita consciousness. Supreme cosmic consciousness stays within its factorial parts. That is because it is collective Cosmic Consciousness not unit consciousness. Unit consciousness we call cittánu. In other words it is secondary unit consciousness made from the material matter of the material atom. In jadasphota the factors are broken up and released as individual factors.

Q> Is energy physical?

A> The question is slanted to obtain a specific result. Energy is physical when the results of its action preformed are observable to our physical senses. Other types of energy like dark energy, energy within microvita and consciousness structures are not observable.

Now, energy is inter-transmutable and interchangeable, but matter is not inter-transmutable or interchangeable. It undergoes metamorphosis, metamorphosis once, but not always; that is, one way but not vice versa. *Matter_and_Abstract.html (in English) 1989*

Q> Microvita are attracted by say smell riding on tanmátras...Do they ride on smell to make atoms?

A> Microvita riding on tanma'tric waves are not the same as the microvita that form basic matter. These wave riding microvita are traveling at slightly less than the speed of light and a higher frequency. This allows them to accrue relatively larger amounts of ordinary energy and to group together to perform their different algorithmic functions. Specifically they affect bio-centric mass differently than matter forming microvita. The microvita that forms basic (fermonic) matter, are new microvita. New means they are coming directly from the cosmic nucleus at higher than light speeds. These are different microvita and

can group together according to their pre-programmed algorithmic functions to form specific protium atoms.

Q> What are the differences in micro-sam'ska'ras and ordinary sam'ska'ras?

A> The term micro-saṁskāra is used to differentiate from the ordinary saṁskāra that unit mind type entities utilize; but what is saṁskāra. It is composed of only unit ectoplasm; that is macrocosmic citta consciousness that has been moglified in the Saincara process and due to its specific vibrations and ingrained patterns it can act to re-create (imaginative) thoughts within a unit mind.¹¹⁶ This only applies when mind thought-waves re-vibrate it to cause the re-creation of a particular thought or shape.

The collective type of mind of the microvita creating matter has none of these characteristics of mind as does the unit mind. It has no microcosmic citta mind stuff. The reason we use the term micro-saṁskāra is only to allow us to understand the concepts in an ordinary way. Actually micro-saṁskāra is possibly a misnomer. The type of mind stuff that matter creating microvita has is macrocosmic citta or ectoplasm of a very different (much more subtle) wavelength. This is why this type of microvita is referred to as self-programming algorithmic type mind utilizing mostly mahattattva mind stuff. It has no thought producing mind waves to activate any so called micro-sam'ska'ras and practically no macrocosmic citta to give shape to those micro-sam'ska'ras.

Whether it's actually macrocosmic or microcosmic mahattattva mind stuff; one can only guess. But mahattattva mind stuff does allow the collective microvita to have direct relation with the cosmic consciousness, without the interferences that the ego-I producing microcosmic ahaṁtattva that the shape producing microcosmic citta produce. Using the name micro-sam'ska'ras is strictly based on the fact that Shrii Shrii Ānandamūrti did use terms "living entities" to describe microvita. They do have a definite life cycle of changes; therefore their minds must have a method of change. Ordinary sam'ska'ras do not dissipate after death of the unit mind and remain in seed form as karma'shaya until next life. This process is to allow the unit being to fulfill its karmic path of spirituality. Microvita also has a karmic path as

¹¹⁶ But the mind stuff or [cosmic] citta finds expression or takes shape only when it comes in contact with psychic vibrations. [Vibration_Form_and_Colour.html](#)

a living entity; abet much more restricted as a collective oriented mind. It is restricted to the psycho-spiritual level of advancement.¹¹⁷

Q> Are all Microvita the same?

A> Microvita riding on tanma'tric waves are not the same (in algorithmically programming) as the microvita that form basic matter. These microvita are traveling at slightly less than the speed of light and a higher frequency. This allows them to accrue relatively larger amounts of energy and to group together to perform different algorithmic functions. Specifically they affect bio-centric mass differently than matter forming microvita. The microvita that forms basic fermionic matter are new microvita. That is, not microvita that has been re-cycled through the standard stellar nucleosynthesis process. New means they are coming directly from the cosmic nucleus at higher than light speeds. These are the microvita that can group together according to their pre-programmed algorithmic functions to form the energy and controls of basic matter..

Q> –E mail sent Nov 27, 2019

A> Rudresha you said> Puruśa could become what you call a “quantum” as it particularizes in the citta cosmic Saincara process. Quantum normally refers to an almost Planck length distance or measurement. This process is more of a diversification or individualization, a much greater process than quantization.

But what really happens in this process? The all-powerful Puruśa becomes qualified (cruder) compressed. Ba'Ba uses the term Guna but what it really means is the method that Prakrti as energy binds or crudifies the 'smart' Puruśa of pure consciousness. In the basic protium atom Puruśa is so compressed and bound as to be what we could consider as dormant. It can't 'qualify' (do) anything. It's locked up solid into the five rudimental factors and microvita also isn't, I could say smart either. It's locked into an algorithmic programming and cannot do anything but what it is preprogrammed to do...i.e. control the energy in the basic atom structure by balancing the five rudimental factors energies to maintain the atom structure (and small modifications when it is made into molecular forms).

We cannot think that different particles have different properties. That is only the way it appears to our sense type of looking at microvita theory through our tanmátra viewpoint. Microvita cannot make or give

¹¹⁷ But if it moves towards the cosmic cognitive faculty it is converted into psycho-spiritual movement, and finally spiritual movement or into the Spiritual Entity. Similarly, a microvitum... *Matter_and_Abstract.html [English]*

attributes to particles. Puruśa as the five rudimental factors cannot give or make attributes. Attributes are “made” solely by the *change in environment* through energy changes. These are brought about by the binding action of tamoguña. That in turn changes the vibration (freq) of the wavelength and particle. Then the reflected tanmatric (minor waves) show us the attributional changes. Shrii Shrii Ánandamúrti specifically told us that attributes are a function of frequency¹¹⁸.

In my world of atom microvita theory, Microvita are very stupid at this point. They (one part) can only do what their programming allows...control energy within the atom. The other part (collective mind) has a much higher duty,, but it is locked in the same atom and the collective mind part is not released until it is recycled from the atom. (After jadasphota, probably billions of years). Energy is completely stupid. Has no intelligent component. The only other component is five rudimental factors nuclei that are locked up tight as the control points (centers) of the atom. Microvita in the atom are like what you call (Higgs) bosons. They just transfer (carriers of) energy among the five rudimental factors factorial centers.

Microvita are by Shrii Shrii Ánandamúrti’s definition massless. But variable in size (as they accept energy) and become mass. Present quantum dynamics theory is taking the present phenomenal world atom and smashing them into smaller minute vector related resultant energy particles. That is like a blind man feeling the feet of a white elephant.

I’m sorry to say (to you) that this means that that ‘particle zoo’ of quarks and flavors etc are just the result of tanmatric measurements of the residue of the smashing apart of the basic atom of our phenomenal world.

Master Saṁskṛta Glossary

abhimána inflated ego

ácárya m. or ácáryá f. spiritual teacher qualified to teach all lessons of meditation

adharma that which goes against dharma

adhruva changing, transitory

advaeta non-duality

aeshvaryas eight occult powers: ańimá, to become small (small enough to enter any physical particle or any crevice of another's mind); mahimá, to become large (an expanded mind is omniscient, and feels love for the universe); laghimá, to become light (a light body can fly through air, a light mind can study the minds of others); prápti, to obtain any desired object; iishitva, to control (this supreme control may be used to guide others' minds); vashitva, to psychically dominate others; prakámya, to materialize the desired outcome of events; and antaryámitva, to know the inner thought-wave and the inner need of any entity. these powers are also called "vibhúti". (note that though some of the powers may be used for similar ends, the ends are achieved by different methods)

ágama and nigama "nigama" means questions on spiritual topics; or the theoretical side of Tantra. "ágama" means answers to the questions; or the practical, applied side of Tantra

agryábuddhi pointed intellect

aham, ahamtattva doer "I", ego, second mental subjectivity

ahamkára false ego, pride

ájñá cakra see cakra
 akhaṇḍa kiirtana continuous kiirtana
 amávasyá new moon
 anáhata cakra fourth psychic-nerve plexus, located at the mid-point of
 the chest; the “yogic heart”.
 ánanda divine bliss
 Ananda Marga path of divine bliss; Ánanda Marga Pracárika Saṁgha
 (Ananda Marga organization)
 anitya transient
 annamaya kośa the physical body, composed of the five rudimental
 factors
 anucchúnyá unmanifested
 anuloma and pratiloma the circumstance of a man marrying below or
 above his station, respectively, according to caste hierarchy
 apara objective; controlled. see also para
 aparábhakti attraction to Apara Brahma, the expressed aspect of
 Brahma. see also parábhakti
 aparáññána mundane, or worldly, knowledge
 aparávidyá knowledge of the mundane
 aparokśa ánubhúti direct experience
 árádhaná irresistible urge for the Lord; forgetting oneself in the
 pursuit of the Lord
 artha anything (especially wealth) that gives temporary relief from
 suffering
 ásana the third limb of aśtámga (eight-limbed) yoga. ásanas: postures
 for curing physical problems, especially those that interfere with
 sádhaná
 ásana shuddhi meditation process to withdraw the mind from body
 awareness and concentrate it at one point
 asat untruth, opposite of Sat
 aśtápásha eight fetters of the mind
 Asura an Assyrian tribe. among the Indo-Aryans, the term took on in
 addition the derogatory meaning “monsters”, and came to be applied
 by them in this sense to certain non-Aryan peoples
 átmá, átman soul, consciousness, Puruśa, pure cognition. the átman
 of the Cosmos is Paramátman, and that of the unit is the jivátman
 átmajñána self-knowledge
 átma-sukha tattva the principle of selfish pleasure
 attractive force is the amplification of the gun’as within the wave by
 chromatics.
 attribute an attributional expression that can be recognized or
 expressed to our senses or extension thereof (usually through
 tanmátras). Attributional peculiarities are shown by colour and sound

avadhúta m. or avadhútiká f. literally, “one who is thoroughly cleansed mentally and spiritually”; a monk or nun of an order close to the tradition of Shaeva Tantra

Avidyámáyá centrifugal, or microcosmic extroversal force; aspect of the Cosmic Operative Principle which guides movements from the subtle to the crude. see also Vidyámáyá

ayurveda the Vedic system of medicine

bhaga is a collection of six attributes: aeshvarya; viirya -- valour, command; yasha -- fame, reputation; Shrii charm; jñána -- knowledge, especially self-knowledge; and vaerágya -- renunciation

Bhagaván the owner of bhaga, one who has fully imbibed the six qualities; Lord

Bhágavata dharma the dharma to attain the Supreme

bala capacity, external pressure, a non local external binding force that causes friction within the factorial, common usage gravity sometimes used as energy or force. It is the capacity of static Prakrti (as tamogun’a) to exert continuous external pressure or bala on any structure (or atom). The resultant of this bala (external pressure), two opposing forces develop, one centrifugal and the other centripetal in character.

balam – the word used describing Prakrti’s action as gun’as (tamogun’a) in the process of Svarúpa Parińáma. In the phenomenal world we would use the complimentary word energy or strength

bhajana devotional song

bhakta devotee

bhakti devotion

bhakti yoga devotional form of spiritual practice

bhaktitattva the cult of devotion. see also Indian philosophies

bhava the expressed universe

bháva idea, ideation, mental flow

bháva sádhaná spiritual practice of auto-suggestion

bhúta, bhútatattva, mahábhúta rudimental, or rudimental, factor of matter. the five bhútas are the ethereal, the aerial, the luminous, the liquid and the solid; and they carry, respectively, the tanmátras of sound, touch, form, taste and smell

bijja mantra acoustic root; particular sound vibration from which a particular type of action stems

brahmáńda the cosmic egg or general shape of our universe

Brahma Supreme Entity, comprising both Puruśa, or Shiva, and Prakrti, or Shakti

Brahma Cakra The Cosmic Cycle -- the cycle of creation out of Consciousness, and dissolution back into Consciousness, through saincara and pratisaincara

Bráhmańa (Brahman) The uppermost social group in India, who traditionally perform priestly functions or live by intellectual labour

Brahmatva Brahma-hood, supreme stance
 Brahmaváda philosophical system of which Brahma is the essence
 bodhi intuition
 buddhi, buddhitattva intellect
 cakra cycle or circle; psycho-spiritual centre, or plexus. the cakras in the human body are all located along the susumná canal which passes through the length of the spinal column and extends up to the crown of the head. some cakras, however, are associated with external concentration points. the concentration points: (1) for the múládhára cakra, the base of the spine, above the perineum; (2) for the svádhiśhána, the genital organ; (3) for the mañipura, the navel; (4) for the anáhata, the midpoint of the chest; (5) for the vishuddha, the throat; (6) for the ájñā, between the eyebrows; and (7) for the sahasrára, the crown of the head
 Citishakti Force of Consciousness, Cognitive Principle, Puruśa, citta done “I”, objective “I”, objective mind, mind-stuff
 collective microvita All microvita is collective, in the sense that all microvita has collective endoplasmic coverage and that is defined as “collective – I”. Collective – I basically it is a microvitic type of the cosmic aham, differing completely from the unit structured aham (unit ego). Microvita has existence as a living being and progresses along the path of Saincara and Pratisaincara up until the psycho-spiritual levels. Specifically it is grouped into two classes of negative and positive as Devayonis (collective) positive microvita¹¹⁹ and Pretayonis (collective) negative microvita¹²⁰
 chromatics what Shrii Shrii Ánandamúrta calls raga or rhythm
 colour charge in (QCD) it is strong force. Shrii Shrii calls it attractive harmonic force, colouring (raga).
 cohesion the adherence of energy to its container is called cohesion
 dáda literally, “elder brother”; may refer to an ácárya of Ananda
 Marga
 Dakśínácára Tantra A school of Tantra that attempts to control Májá through propitiation or appeasement
 dásya bháva the devotional attitude of looking upon oneself as the servant of the Lord

119 In ancient times, regarding the singular or collective structures of these microvita, the ancient rśis [sages] said that they are of seven types, of seven species, and gave them the names: yakśa, gandharva, vidyádhara, kinnara, siddha, prakrtiliina and videhaliina according to the nature of their subtlety or the nature of their crudeness. *Microvitum_the_Mysterious_Emanation_of_Cosmic_Factor.html*

120 Pretayonis are of seven types, but in fact they are the seven varieties of negative microvita... These pretayonis are divided into several categories – durmukha, kabandha, madhyakapála, mahákapála, brahmadaetya or brahmapisháca, ákášhiipreta, and pisháca. *Disembodied_Souls_and_Microvita_Section_B.html*

deva mythologically, a god, a deity; philosophically, any vibration, or expression, emanating from the Cosmic Nucleus

devatá mythologically, a god or goddess; philosophically, a minor expression of a deva, controlled and supervised by the deva (deva and devatá are sometimes used interchangeably)

devii a goddess, a female deity

dháráná the sixth limb of aśtáṅga (eight-limbed) yoga: restricting the flow of mind to particular points in the body; conception. (Tattva dháráná means restricting the flow of mind to, or conception of, the rudimental factors.)

dharma characteristic property; spirituality; the path of righteousness in social affairs

dharma rájya literally, “reign of dharma”; rule of moralism

dharmacakra collective meditation; Buddha’s “wheel of dharma”

dharmakṣetra the battlefield of the Mahábhárata war; the physical body (as the only venue in which dharma sádhaná can be performed)

dhármika adjective of dharma

dhyána the seventh limb of aśtáṅga (eight-limbed) yoga: meditation in which the psyche is directed towards Consciousness

dhyána mantra Sanskrit verse listing the attributes of a deity, to be used for visualizing that deity in meditation

didi literally, “elder sister”; may refer to an ácáryá of Ananda Marga

dvaeta duality

dvaetádvaeta dualistic non-duality

Dvápara Yuga see yugas

Ectoplasm in standard scientific terms it refers to the outer layer of an organic or inorganic cell. Ectoplasm is Shrii Shrii Ánandamúrtil’s terms is citta mind stuff. Generally ectoplasm mind stuff is an almost material but ethereal substance that is the lowest class of mind material. It remains with the material body at time of death. It can only handle a limited number of functions including taking the shape from either extroversive or internally generated wave forces.

Endoplasm is defined as a relatively fluid part of either an organic or inorganic cell. Shrii Shrii Ánandamúrtil uses it very much differently. He describes it a *mentally* fluidic type structure surrounding the outer surface of ectoplasm. It surrounds “expressed” [living] complex developed structures (microvitic or unit complex structures). It has a microvitic collective – I (vs. unit mind collected – I).

Ekádashii “eleventh” day after the new moon or full moon, days on which fasting is especially advantageous

energy - collective name of these external and internal forces or práṇa entitative waves. pure/individual controlling waves of the entity

flavour charges define different masses, electric charges, and decay modes in (QCD).

form is the summation of chromatics, wave (gun'as), vibration, sound and colour (colouring) within the particulated Brahma area (Cosmic Citta) of Saincara. In pratisaincara it appears as the 3rd factorial luminous area.

frequency changes cause change in object.

gati mobility, movement

giita song

gopa m. or gopii f. village cowherd boy or girl; devotees of the Lord

gun'as binding factor or principle; attribute; quality. Prakrti, the Cosmic Operative Principle, is composed of: sattvaguña, the sentient principle; rajoguña, the mutative principle; and tamoguña, the static principle. Inherent binding forces of waves, expressed macrocosmically as gravity and microcosmically as the strong force (QCD)

guru mantra "important" mantra, learned as a lesson of Ananda
Marga sádhaná

hirañmaya kośa the subtlest of the kośas

hládinii shakti, Rádhiiká shakti an expression of vidyá shakti, or Vidyámáyá, which one experiences as a desire to do something practical towards spiritual attainment

Iishvara the Cosmic Controller; literally, "the Controller of all controllers"

Inertial vs. interial frames Inertial refers to mundane space or place.

Interial refers to person. *Time is function of person; not of space*

jagat world, universe

Janya Iishvara Sámkhya concept of a Cosmic entity instrumental for creation

jiiva an individual being

jiivabháva finite subjectivity, feeling of the unit state, sense of the unit identity, microcosmic bearing

jiivátmá, jiivátman see átmá

jiñána knowledge; understanding

jiñána yoga a form of spiritual practice which emphasizes discrimination or intellectual understanding

jiñánii a sádha who follows the path of knowledge or discrimination

kalá flow with curvature, in a stage of the Cosmic Cycle dominated by the mutative principle

kaola one who practises kula sádhaná and is adept at raising one's own kuñdalinii

Kaoravas sons of king Dhritarastra, the adharmik forces in the Mahábhárata war

kapálika sádhaná a form of spiritual practice which causes the aspirant to confront and overcome all the inherent fetters and enemies of the human mind

kapha see váyu, pitta, kapha and rakta

karma action; sometimes, positive or negative action which produces
 saṁskāras
 karma yoga a form of spiritual practice which emphasizes selfless
 action
 karmii a sādḥaka who follows the path of action or work
 kiirtana collective singing of the name of the Lord, sometimes combined
 with a dance that expresses the spirit of surrender
 kośa “level” or “layer” of the mind (either Macrocosmic Mind or
 microcosmic mind) in terms of its degree of subtlety or crudeness
 krpá spiritual grace
 Krśñasundaram Krśña the Beautiful
 kśatriya a person whose mentality is to dominate over matter;
 written as “Kśatriya”, a member of the second-highest caste in India
 kuṅḍalinii, kulakuṅḍalinii literally, “coiled serpentine”; sleeping
 divinity; the force dormant in the kula (lowest vertebra) of the body,
 which, when awakened, rises up the spinal column to develop all
 one’s spiritual potentialities
 Kurukṣetra the battlefield of the Mahábhārata war; the world (since
 it is as if the world is always saying,
 liilá divine sport
 loka a “level”, or “layer”, or “sphere” of the Macrocosmic Mind
 Mahábhārata “Great India”; the name of a military campaign guided
 by Lord Krśña around 1500 BCE to unify India; the epic poem written
 by Maharshi Vyasa about this campaign
 Mahákaola a Tantric guru who can raise not only his own
 kuṅḍalinii, but those of others also; in Buddhist Tantra, Mahákaola is
 sometimes symbolic of Parama Puruśa
 Mahápuruśa a person highly evolved psychically and spiritually,
 especially one who has consequently developed a charisma felt by
 other people
 Mahásambhúti when Táraka Brahma utilizes the five rudimental factors
 to express Himself through a body, this is known as His
 Mahásambhúti
 mahat, mahattattva “I” (“I am,” “I exist”) feeling, existential “I”
 mantra a sound or collection of sounds which, when meditated upon,
 will lead to spiritual liberation. a mantra is incantative, pulsative, and
 ideative
 mantra caetanya the awakening of a mantra; conceptual
 understanding of and psychic association with a mantra
 márga path
 Margi a member of Ananda Marga
 Máyá Creative Principle, Prakṛti in Her phase of creation. also, the
 power of the Creative Principle to cause the illusion that the finite
 created objects are the ultimate truth
 Mâyáváda doctrine of illusion. see also Indian philosophies

metazoic mind complex type mind using acquaintance, experience and microvitic endoplasmic coverage

microvita plural for microvítum

microvítum point-like, psycho spiritual living entity – intelligently designed with sub-assembling algorithms that are used as force energy carriers in all phases of creation

mithyá false, unreal

mokśa spiritual emancipation, non-qualified liberation

mudrá meaningful gesture; a yogic exercise similar to an ášana but incorporating more ideation

mukti spiritual liberation

múládhára cakra lowest, or basal, psychic-spiritual centre, or plexus, located just above the base of the spine. see also cakra

muni a saintly person devoted to intellectual pursuits

náda flow without curvature in a stage of Brahma Cakra dominated by the sentient principle

nádii psychic-energy channel; nerve

namah salutations

Náráyaña the Supreme Entity; literally, “the Lord of Nára (Prakrti)”

niiti morality

Nirguña Brahma Brahma unaffected by the guñas; non-qualified Brahma

onm, oṅmkára the sound of the first vibration of creation; the bijja mantra (acoustic root) of the expressed universe. oṅmkára literally means “the sound onm”

ota yoga the association of Puruśottama with each unit creation individually in pratisaincara

pabula in a mental meaning as thin material based substance that nourishes the mental needs of a mental structure or simply food for the mind

painca bhútas five rudimental or rudimental factors -- ethereal, aerial, luminous, liquid and solid

Pandavas the sons of king Pandu, the dharmic forces in the Mahábhárata war

pápa sin

pápii sinner

para subjective; controlling. see also apara

parábhakti highest devotion to the Supreme; devotion to Para Brahma, the unexpressed aspect of Brahma. see also aparábhakti

parájiṇána spiritual knowledge

Paramá Prakrti Supreme Operative Principle

Parama Puruśa Supreme Consciousness

Paramashiva see Puruśottama

Paramátmá, Paramátman Supreme Consciousness in the role of witness of His own macropsychic conation. Paramátman

comprises: (1) Puruṣottama, the Macrocosmic Nucleus; (2) Puruṣottamā's association with all creation in His extroversal movement (prota yoga); and (3) Puruṣottamā's association with each unit creation individually (ota yoga) and (4) with all collectively (prota yoga) in His introversal movement

parāshakti introversive pervasive force

parāvidyā spiritual knowledge, knowledge of the Great

parokṣa ānubhūti indirect knowledge or experience

Pārthasārathi literally, "Arjuna's charioteer"; Kṛṣṇa in the role of a king

pātaka sin. there are two kinds: pāpa, sin of commission, and pratyavāya, sin of omission

pitta see vāyu, pitta, kapha and rakta

Prabhāta Saṁgiīta a collection of 5018 spiritual and psycho-spiritual songs composed by Prabhat Ranjan Sarkar (Shrii Shrii Anandamūrti)

Prakṛti, Paramā Prakṛti Cosmic Operative Principle

Prakṛtitattva essence of Prakṛti

prana a general term for energy

prāṇa a specific name used in conjunction with Indra, as a physical energy – i.e., the mechanical energy, electrical energy, magnetic energy functions within the scope of matter. The collective name of these external and internal forces is prāṇa, or energy.

prāṇāh collective name of biophysical energies (vital energies) ten vāyus

prāṇāsha dissolution, total annihilation

prāṇāyāma the fourth limb of aṣṭāṅga (eight-limbed) yoga: process of controlling vital energy by controlling the breath. a lesson of Ananda Marga sādhanā

prapatti "whatever is taking place in the universe is all due to the cosmic will".

pratisaincara in the Cosmic Cycle, the step-by-step introversion and subtilization of consciousness from the state of solid matter to the Nucleus Consciousness. ("prati" means "counter" and "saincara" means "movement")

pratyāhāra the fifth limb of aṣṭāṅga (eight-limbed) yoga: withdrawing the mind from absorption in the physical senses

prota yoga the association of Puruṣottama with all creation in His extroversive movement and with all the unit creations collectively in His introversive movement

purāṇa mythological story with a moral import; educative fiction

purashcaraṇa upward movement of the kulakuṇḍalinii from mūlādhāra cakra to sahasrāra cakra, including the phases of mantrāghāta and mantra caetanya

Puruśa Consciousness. Supreme Consciousness, the consciousness of the Cosmos, is Parama Puruśa, and a unit consciousness is an ānu puruśa

Puruśadeha the entire created substance, causal, subtle and crude, of the Macrocosm; Cosmic “I” + Cosmic doer “I” + Cosmic done “I”

protozoic mind cistic type physical mind guided by instinct only and unit existential I

Puruśottama Paramashiva the Nucleus Consciousness, the witness of sañcara (extroversion from the Nucleus) and pratisañcara (introversion to the Nucleus)

quinqüelemental composed of the ethereal, aerial, luminous, liquid and solid factors, or elements

Rádha bháva, madhura bháva “Rádha bháva” means literally the devotional attitude which Rádha held as the beloved of Krśńa. “madhura bháva” means literally the “sweet”, or “honey”, devotional attitude

raga Raga (color) is chromatic (frequency modulated) an attractive harmonic force and holds the molecules together.

rajoguńa see guńas

rakta see váyu, pitta, kapha and rakta

Rámáyána an epic poem of India. it is the story of king Rama, or Ramchandra

Rárh the territory, mostly in Bengal, stretching from the west bank of the Bhagirathi River to the Parasnath Hills

rasa cosmic flow; taste

rásaliilá “Parama Puruśa has created an endless network of waves from the Cosmic Nucleus according to his own sweet will . . . each of these waves is a deva, but the fundament upon which these waves have been created is called rasa . . . the divine sport of these innumerable waves is called the rásaliilá”

rśi sage; one who, by inventing new things, broadens the path of progress of human society

rúpa tanmátra inferential waves conveying vision, i.e., the sense of form. see also tanmátra

Sadashiva Shiva (literally, “eternal Shiva”)

sádha spiritual practitioner

sádhaná literally, “sustained effort”; spiritual practice; meditation

sádhu virtuous person, spiritual aspirant. see also sádha

sadrsha parińáma homogenesis, a sequence of similarity of curvatures in the phase of creation dominated by rajoguńa

sadvipra spiritual revolutionary

Saguńa Brahma Brahma affected by the guńas ; qualified Brahma

sahasrára cakra highest, or pineal, psychic nerve plexus, located at the crown of the head

saincara in the Cosmic Cycle, the step-by-step extroversion and crudification of consciousness from the Nucleus Consciousness to the state of solid matter. (saincara literally means “movement”)

samádhi “absorption” of the unit mind into the Cosmic Mind (savikalpa samádhi) or into the átman (nirvikalpa samádhi); there are also various kinds of samádhi that involve only partial absorption and have their own distinguishing characteristics, according to the technique of spiritual practice followed

samája society

samája cakra social cycle

sama-samája tattva the principle of social equality

saṁsára the world as a dimension of relentless, unceasing movement

saṁskára mental reactive momentum, potential mental reaction

samvit shakti an expression of vidyá shakti, or Vidyámáyá, which one experiences as the realization that life has a higher purpose

sannyásii m. or sannyásinii f. literally, “one who has surrendered one’s everything to the Cosmic will” or “one who ensconces oneself in Sat, the unchangeable entity”; a renunciant

sárathi charioteer

Sat, Satya, Satyam that which undergoes no change”; Absolute Reality

satsaunga good company

sattvaguṇa see guṇas

shabda sound

Shaeva Dharma Shaivism; the theoretical or philosophical side of spirituality as taught by Shiva

Shaeva Tantra Shiva Tantra; the applied, or practical side of spirituality as taught by Shiva

shákta a follower of Sháktácára, the Shakti Cult; hence, any aspirant who embodies the characteristics of Sháktácára, especially the judicious application of power

Shakti Prakrti; energy; a deification of Prakrti

Shambhúliunga fundamental positivity

shástra scripture

Shiva a great Tantric guru of 5000 BCE who guided society while His mind was absorbed in Consciousness; hence, Infinite Consciousness, Puruśa

Shivabháva the stance, or bearing, of Infinite Consciousness

Shiva-liunga originally a phallic symbol, later given philosophical significance as “the entity from which all things originate”

shloka a Sanskrit couplet expressing one idea

shúdra Written as “shúdra”, a person with a mentality of physical enjoyment only, a member of the labourer social class; written as “Shúdra”, a member of the lowest caste in India.

siddha mantra a mantra “perfected” by the guru

- siddhi Self-realization; spiritual attainment
- sthirabhūmi of the citta (the apperceptive plate), the site of the mind's sam'ska'ras (reactive momenta of deeds).
- svarūpa pariñāma a process of homomorphic evolution from a state before creation in which all the guñas are in equipoise
- Svayambhūliunga ultimate point of negativity, or crudity, in the human body
- tamaguña see guñas, sometimes sp. tamogun'a
- táñdava a vigorous dance for male spiritual aspirants, originally formulated by Shiva. it develops the glands in a way that enhances courage and fearlessness. when Shiva Himself does this dance (Shiva Naṭarāja), the dance becomes a metaphor in which Supreme Consciousness sends vibrations throughout the universe and causes all objects of the universe in turn to radiate vibrations
- tanmātra literally, "minutest fraction of that," i.e., of a given rudimental factor of matter. also translated "generic essence" or "inferential wave". the various types of tanmātras convey the senses of hearing, touch, form (vision), taste and smell
- tantra a spiritual tradition which originated in India in prehistoric times and was first systematized by Shiva. it emphasizes the development of human vigour, both through meditation and through confrontation of difficult external situations, to overcome all fears and weaknesses. also, a scripture expounding that tradition
- Táraka Brahma Supreme Consciousness in Its liberating aspect
- upadharmas secondary dharmas
- upādhi and padavii the special and ordinary quality or characteristic of anything
- vāda and -vādiis suffixes meaning, respectively, "doctrine of", or "ism"; and "followers (of a doctrine)"
- vaeshya a person of acquisitive mentality, a member of the capitalist social class; written as "Vaeshya", a member of the second-lowest caste in India
- Vaeśnáva Vaishnavite; pertaining to the Viśnú Cult or Religion
- vātsalya bháva the devotional attitude of looking upon the Lord as one's child
- váyu, pitta, kapha and rakta váyu comprises (1) the ten basic energy flows in the body, performing specific functions; (2) the gas that is created in the digestive tract when the energy flows become distorted. pitta is the expression of the luminous (fire) factor in the human body, responsible for digestion and preservation of body heat. Examples of pitta are the liver bile and pancreatic juice. kapha denotes mucus, phlegm, and all physical factors (such as some factors of the blood) which tend to create mucus. rakta is blood
- váyus the ten basic energy flows in the human body

- veda literally, “knowledge”; hence, a composition imparting spiritual knowledge. also, a religious or philosophical school which originated among the Aryans and was brought by them to India. it is based on the Vedas and emphasizes the use of ritual to gain the intervention of the gods
- vibration when defined in relativity is measured as f (in Hz)= $1/T$ (sec)
- Vidyámáyá centripetal, or introversal microcosmic force; force of attraction to the Nucleus Consciousness; aspect of the Cosmic Operative Principle which guides movements from the crude to the subtle. see also Avidyámáyá
- viirácáarii a follower of Viirácára Tantra; a Tantric who adopts a particularly “heroic” ideation while seeking to confront and overcome all mental weaknesses
- vikšepa shakti an expression of avidyá shakti, or Avidyámáyá, which one experiences as the delusion that if one remains aloof from the Supreme, the Supreme will not be in a position to control his or her destiny
- vimukha anger, permanent displeasure
- vinásha transformation through destruction
- vipra a person who controls others by his wits, a member of the intellectual social class; written as “Vipra”, a member of the highest caste in India.
- viveka conscience, power of discrimination between good and evil
- vraja the spirit of joyful movement
- Vrajagópála Vraja Krśńa as “that entity who takes people forward through joy, amidst various expressions of bliss”
- vrtti mental propensity
- yama and niyama moral codes
- yoga spiritual practice leading to unification of the unit átman with Paramátman
- yugas the mythological four ages (Satya Yuga, or Golden Age, Treta Yuga, or Silver Age, Dvápára Yuga, or Copper Age, and Kali Yuga, or Iron Age), representing the step-by-step decline of morality and spirituality
- wavelength is λ the Greek letter *lambda* in meters

Other books available by same author:

The Internal Being, Reincarnational and Intuitive Psychology, Writers Club Press, First Printing © Jan 2000 (out of print), ISBN: 0-595-16934-1

The Internal Being, Reincarnational and Intuitive Psychology, Published Raymond Bates, Revised Electronic Edition, © March 2016, turiiya@gmail.com, ISBN: 978-0-9796660-3-2

Macrogenesis, A New Paradigm in Consciousness, ZigZag Pubs, Baguio, Philippines, Deluxe Ed., © Sept 2005 (out of print), ISBN: 978-0-9796660-1-8

Macrogenesis, A New Paradigm in Consciousness, Published Raymond Bates, E-edition, © April 2016, turiiya@gmail.com, ISBN: 978-0-9796660-6-3

Biometaphysics, A theory of Biometaphysical Genetic Transference, Published Raymond Bates, Revised E Book, © April 2016, turiiya@gmail.com, ISBN: 978-0-9796660-7-0

Microvitology, Microvita Universal Subassembly Structures, Published Raymond Bates, Revised Electronic Edition, © May 2016, turiiya@gmail.com, ISBN: 978-0-9796660-8-7

The Microvitic Atom, Microvita Sub-structures in the Atom, Published Raymond Bates, First Electronic Edition, © July 2016, turiiya@gmail.com, ISBN: 978-0-9796660-9-4

Microcosmology, A New Paradigm of Relativity, Published Raymond Bates, First E-edition, © July 2017, turiiya@gmail.com, ISBN: 978-0-9796660-2-5

Microvita, A Handbook, Published Raymond Bates, First E-edition, June 2019, turiiya@gmail.com, ISBN: 978-0-9796660-0-1

The Cognitive Creative Universe, A study of Microvita Cosmogony, Published Raymond Bates, First E-edition, May 2019, turiiya@gmail.com, ISBN: 978-0-9796660-5-6

About the Author



Raymond is an engineer that spent many years studying, living and teaching with Shrii Shrii Ānandamūrti. He lives in the Philippines with his wife and two teenage children. He is the author of seven books on microvita theory. “*The Microvitic Atom, Microvita Sub-structures in the Atom*”, “*The Internal Being, Reincarnational and Intuitive Psychology*”, “*Macrogenesis, A New Paradigm in Consciousness*”, “*Biometaphysics, A theory of Biometaphysical Genetic Transference*”, “*Microvitology, Microvita Universal Subassembly Structures*”, “*Microcosmology, A New Paradigm of Relativity*”, and “*Microvita, A Handbook*”.

They are available free in E-book from the author at turiiya@gmail.com

