

The Coming Scientific Validation of The Urantia Book

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The Urantia Book Fellowship

International Conference (IC' 05)

MAKING SPIRIT MATTER: The Next 50 Years

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Overview of Presentation

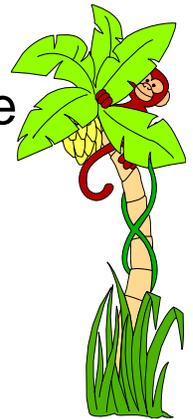
- 1) The Urantia Book has predicted many implausible and subsequently verified scientific facts better than our scientists while also successfully avoiding untenable systematic errors, unlike our scientists;
- 2) Therefore, on statistical grounds, only superhumans could have written the science and cosmology of The Urantia Book;
- 3) The cosmology of The Urantia Book while “transient” (a few hundred years in this context) is also of “immense value” in this transition period and beyond;
- 4) Examples of immensely valuable “instruction in cosmology” from The Urantia Book;
- 5) Soon-coming scientific predictions of The Urantia Book;
- 6) The future value of the cosmology of The Urantia Book.

Was The Urantia Book Written by Human Beings?



Potentially Discrediting Pitfall Avoided

- “Piltdown Man” - The 1912 & 1917 “Missing Link” fossils, a hoax finally exposed and discredited after 1950.
- Even as late as 1947 the fossils were still generally believed to be real. [Har03]
- Although the evolution of vegetable life can be traced into animal life, and though there have been found graduated series of plants and animals which progressively lead up from the most simple to the most complex and advanced organisms, you will not be able to find such connecting links between the great divisions of the animal kingdom nor between the highest of the prehuman animal types and the dawn men of the human races. These so-called "missing links" will forever remain missing, for the simple reason that they never existed. **The Urantia Book, Page-669 Line-24 Para**



Continental Drift

- Pangaea - Alfred Wegener's 1920's theory of a single continent that broke apart and "drifted" (largely rejected by 1929, vindicated in the late 1950's and 60's). [Wag96], [Hug05], [Wei05]



- “750,000,000 years ago the first breaks in the continental land mass began as the great north-and-south cracking, which later admitted the ocean waters and prepared the way for the west-ward drift of the continents of North and South America, including Greenland. The long east-and-west cleavage separated Africa from Europe and severed the land masses of Australia, the Pacific Islands, and Antarctica from the Asiatic continent.”

Page-663 Line-3 Para-1

Mountains and Earthquakes

- Continents float on liquid rock; allowed “continental drift”; collisions cause mountains; shifting now causes earthquakes; periodic submergence continues.



- “The outer crust was about forty miles thick. This outer shell was supported by, and rested directly upon, a molten sea of basalt of varying thickness, a mobile layer of molten lava held under high pressure but always tending to flow hither and yon in equalization of shifting planetary pressures, thereby tending to stabilize the earth's crust. Even today the continents continue to float upon this non-crystallized cushiony sea of molten basalt. Were it not for this protective condition, the more severe earthquakes would literally shake the world to pieces. Earthquakes are caused by sliding and shifting of the solid outer crust and not by volcanoes.”

Injury Repair Prediction

- “In experimental partial resection in the rat, the remaining liver tissue starts to regenerate within a few hours. ...dead liver cells are replaced by proliferation of surviving liver cells. Hepatocytes, Kupffer cells, endothelium, bile ducts, vessels, all proliferate.” “The factor(s) stimulating proliferation of remaining hepatocytes are not known. T(h)ey may be humoral. Indeed: 1) blood from a partially hepatectomized animal induces a proliferative response in the liver of a non-operated animal.” [Orf01] Emilio Orfei, Department of Pathology, Loyola University of Chicago, 2001
- “When a living cell is injured, it possesses the ability to elaborate certain chemical substances which are empowered so to stimulate and activate the neighboring normal cells that they immediately begin the secretion of certain substances which facilitate healing processes in the wound; and at the same time these normal and uninjured cells begin to proliferate-- they actually start to work creating new cells to replace any fellow cells which may have been destroyed by the accident.”

The Limitations of Revelation

- Is all or most of The Urantia Book's science already outdated - merely transient early 20th century cosmology?
- Are the numerous differences between contemporary science and The Urantia Book's cosmology "errors on the face of The Urantia Book evident after "a few short years"?
- Since the cosmology of The Urantia Book is "not inspired", and the revelators were not permitted to reveal "unearned" or pre-mature knowledge, how valuable can its cosmological discourses be?



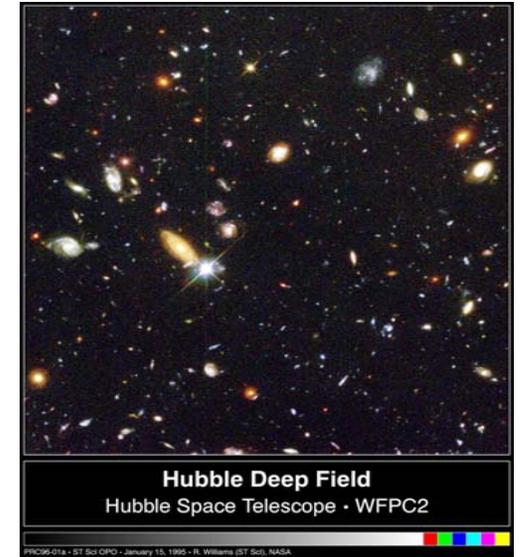
Scientific (& Spiritual) Value of The Urantia Book

- **Immense value** in *reducing confusion* by the *authoritative elimination of error*
- **Immense value** in co-ordination of known or *about-to-be-known facts* and observations
- **Immense value** in the restoration of important bits of *lost knowledge concerning epochal transactions* in the distant past
- **Immense value** in supplying information which will *fill in vital missing gaps* in otherwise earned knowledge
- **Immense value** by presenting cosmic data in such a manner as to *illuminate the spiritual teachings* contained in the accompanying revelation

Astronomic Predictions Fulfilled (Billions of Universes)

- “In the not-distant future, new telescopes will reveal to the wondering gaze of Urantian astronomers no less than 375 million new galaxies in the remote stretches of outer space.”

Page-130, Line-47



- “The relatively quiet zones between the space levels, such as the one separating the seven superuniverses from the first outer space level, are enormous elliptical regions of quiescent space activities. These zones separate the vast galaxies which race around Paradise in orderly procession.” Page-125 Line-6

Astronomic Predictions

Confirmed (Outer Space Zones)

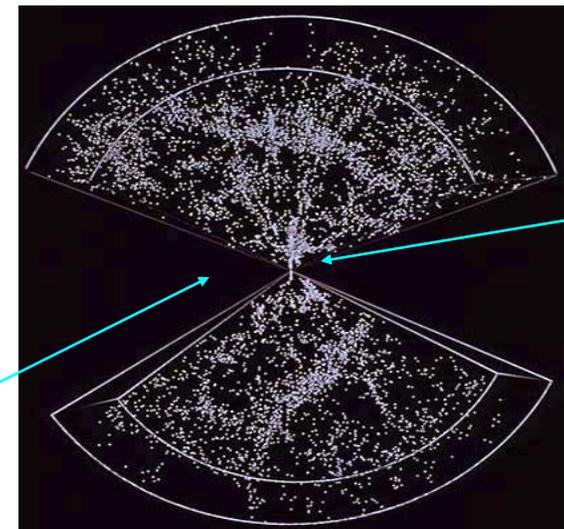
- “You may visualize the first outer space level, where untold universes are now in process of formation, as a vast procession of galaxies swinging around Paradise, bounded above and below by the midspace zones of quiescence and bounded on the inner and outer margins by relatively quiet space zones.” Page-125 Para-1
- “The Outer Space Levels. Far out in space, at an enormous distance from the seven inhabited superuniverses, there are assembling vast and unbelievably stupendous circuits of force and materializing energies. Between the energy circuits of the seven superuniverses and this gigantic outer belt of force activity, there is a space zone of comparative quiet, which varies in width but averages about four hundred thousand light-years. These space zones are free from star dust--cosmic fog.” Page-129 Line-45

Astronomic Predictions Fulfilled (“Walls” and “Voids”)

- “The first maps, published in 1986, were a great surprise to the astrophysicists. They had expected to find relative uniformity above the scale of the already-familiar galaxy clusters. Instead, the first surveys showed--and subsequent surveys have confirmed--that great clusters of galaxies are arranged in thin sheets or long filaments.”
Michael Norman, NCSA/Univ. of Illinois
- North and South, Sheets and Voids, Margaret J. Geller and Emilio E. Falco, Harvard-Smithsonian Center for Astrophysics.

- The Earth is at the center. Each of 9,325 points in this image represents a galaxy in the northern and southern galactic hemispheres; unmapped regions are inaccessible because the plane of the Milky Way obscures them. Note the “ring of galaxies” centered around a location in the obscured region.

Center of predicted ring of galaxies



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Astronomic Predictions Fulfilled (Rotational Speed & Dark Matter)

- **Galactic rotational speeds.**
- As reported in *Science Frontiers* in 1982, “According to the physical laws governing orbital motion in a central force field, like that of our sun, distant objects should rotate more slowly than those closer to the central mass.”
... “Doppler measurements of galaxy rotations made by Vera C. Rubin and her colleagues, at the Carnegie Institution, indicate that most stars out near the galactic rims rotate just as fast or faster than those closer to the hub.” [Cor82]
- **Dark Matter.** The Urantia Book **Predicted** the existence of dark matter holding fast spinning galaxies together.

(Page-173 Line-3 Para-1)

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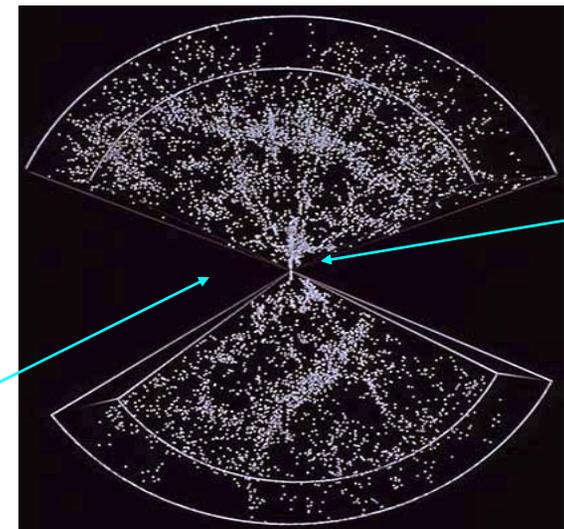
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Neutrinos

- **Neutrinos Exist.**

- Predicted by W. Pauli in 1931 and incorporated by E. Fermi in 1934 into his theory of atomic decay
- First observed in 1959 by Clyde Cowan and Fred Reines. [Bar98]

- The 1955 Urantia Book affirmed Fermi's unproved theory: "The mesotronic disintegration is also accompanied by the emission of certain small uncharged particles." Page-479 Para-3

(Mesotrons are now called mesons.)

- **Neutrinos Have Mass.** Only in 1998 did our scientists discover that neutrinos have mass, upsetting their "standard theory":

- "A Weighty Discovery in Particle Physics. In June 1998, an international team of Japanese and U.S. physicists unveiled strong evidence that elusive subatomic particles known as neutrinos have mass (or weight)." [Inf05]

- "The integrity of the nucleus is maintained by the reciprocal cohering function of the mesotron, which is able to hold charged and uncharged particles together because of superior force-mass power and by the further function of causing protons and neutrons constantly to change places." Page-479 Line-9 Para-2

Probability of Human Authorship

What is the probability of human authors guessing correctly that:

- No “missing link” exists: Probability estimate $\leq 1/50$
- Floating continents drifted; formed mountains: $\leq 1/40$
- Injured cells secrete chemicals stimulating repair: $\leq 1/50$
- “No less than 375 million” new galaxies will be seen: $\leq 1/100$
- “Walls” of galaxies are separated by huge voids: $\leq 1/100$
- Stronger telescopes will see huge red shifts: $\leq 1/5$
- Galaxies spin fast; dark matter keeps them together: $\leq 1/5$
- Neutrinos exist and have mass $\leq 1/4$

So the probability of all of these happening by chance is

$$\leq (1/50)(1/40)(1/50)(1/100)(1/100)(1/5)(1/5)(1/4)$$

$$\leq 1/100,000,000,000 = \text{less than 1 chance in 100 billion.}$$

Many other examples exist reducing this probability even more.

Instructions in Cosmology

- Huge Redshifts - Due to “numerous factors of error”
- Space Expansion - Space moves and contains motion
- Existence and Universe Location of a Focal Singularity in the Topology of Space - timeless and spaceless Paradise
- Local versus Paradise Gravity
- The Maturation of Space Potency into Mass Particles
- Wavelike Manifestations and the Unqualified Absolute
- A Rotating Universe - Einstein and Gödel
- Solar System Origin
- Solar Internal Temperature and Energy Sources
- Physics and Chemistry Alone Cannot Evolve into Life
- Garden of Eden - 1 mile down in eastern Mediterranean

Huge Spectrographic Redshifts

•“The present relationship of your sun and its associated planets, while disclosing many relative and absolute motions in space, tends to convey the impression to astronomic observers that you are comparatively stationary in space, and that the surrounding starry clusters and streams are engaged in outward flight at ever-increasing velocities as your calculations proceed outward in space. But such is not the case.”

Page-134 Line-1 Para-1

•“... this apparent speed of recession is not real; it results from numerous factors of error embracing angles of observation and other time-space distortions.”

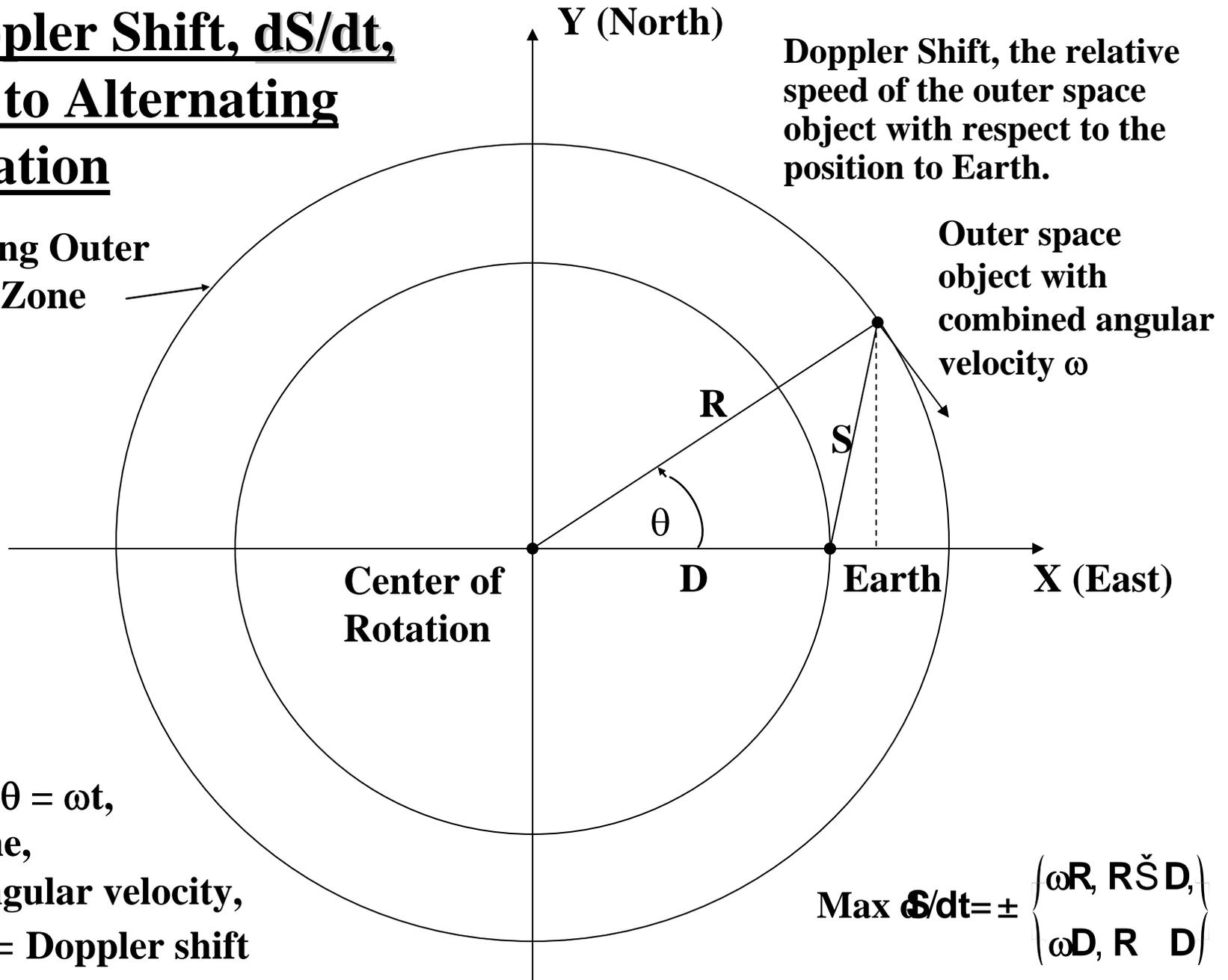
Page-134 Line-15

•“But the greatest of all such distortions arises because the vast universes of outer space in the realms next to the domains of the seven superuniverses seem to be revolving in a direction opposite to that of the grand universe. That is, these myriads of nebulae and their accompanying suns and spheres are at the present time revolving clockwise about the central creation. The seven superuniverses revolve about Paradise in a counterclockwise direction.”

Page-134 Para-4

Doppler Shift, dS/dt , due to Alternating Rotation

Rotating Outer
Space Zone



Angle $\theta = \omega t$,
 $t = \text{time}$,
 $\omega = \text{angular velocity}$,
 $dS/dt = \text{Doppler shift velocity}$

$$\text{Max } dS/dt = \pm \begin{pmatrix} \omega R, R \dot{S} D, \\ \omega D, R \dot{D} \end{pmatrix}$$

Space Motion and Expansion

- Space moves independently of the matter it contains.
(1980's "adjusted" Big Bang Cosmology)
- "When the universes expand and contract, the material masses in pervaded space alternately move against and with the pull of Paradise gravity. The work that is done in moving the material energy mass of creation is space work but not power-energy work." Page-134 Line-11 Para-2
- "Space is, from the human viewpoint, nothing--negative; it exists only as related to something positive and nonspatial. Space is, however, real. It contains and conditions motion. It even moves. Space motions may be roughly classified as follows:
 1. Primary motion--space respiration, the motion of space itself.
 2. Secondary motion--the alternate directional swings of the successive space levels.
 3. Relative motions--relative in the sense that they are not evaluated with Paradise as a base point. Primary and secondary motions are absolute, motion in relation to unmoving Paradise.
 4. Compensatory or correlating movement designed to co-ordinate all other motions." Page-133 Line-33 Para-7

The Existence and Universe

Location of Paradise

- “Paradise is the actually motionless nucleus of the relatively quiescent zones existing between pervaded and unpervaded space. Geographically these zones appear to be a relative extension of Paradise, but there probably is some motion in them. We know very little about them, but we observe that these zones of lessened space motion separate pervaded and unpervaded space. Similar zones once existed between the levels of pervaded space, but these are now less quiescent.”
Page-124 Line-19 Para-4
- “Space does not exist on any of the surfaces of Paradise. ... Space does not touch Paradise; only the quiescent midspace zones come in contact with the central Isle.” (Page-124 Para-3) This fixed reference frame has a “universe location but no position in space.” Page-7 Para-4
- These quiescent zones of space exist both within each ultimate unit of matter (quantum) and also macroscopically between the moving galactic space zones. “The ultimaton, the first measurable form of energy, has Paradise as its nucleus.”
Page-467 Para-5

Local and Paradise Gravity

- Ultimate units have a common nucleus – Paradise.

“The ultimatons are not subject to local gravity, the interplay of material attraction, but they are fully obedient to absolute or Paradise gravity, to the trend, the swing, of the universal and eternal circle of the universe of universes. Ultimatonic energy does not obey the linear or direct gravity attraction of near-by or remote material masses, but it does ever swing true to the circuit of the great ellipse of the far-flung creation.”

Page-465 Para-2

- “Universal Gravity. All forms of force-energy--material, mindal, or spiritual--are alike subject to those grasps, those universal presences, which we call gravity.

Page-131 Line-34 Para-5

- “These four circuits are not related to the nether Paradise force center; they are neither force, energy, nor power circuits. They are absolute presence circuits and like God are independent of time and space.”

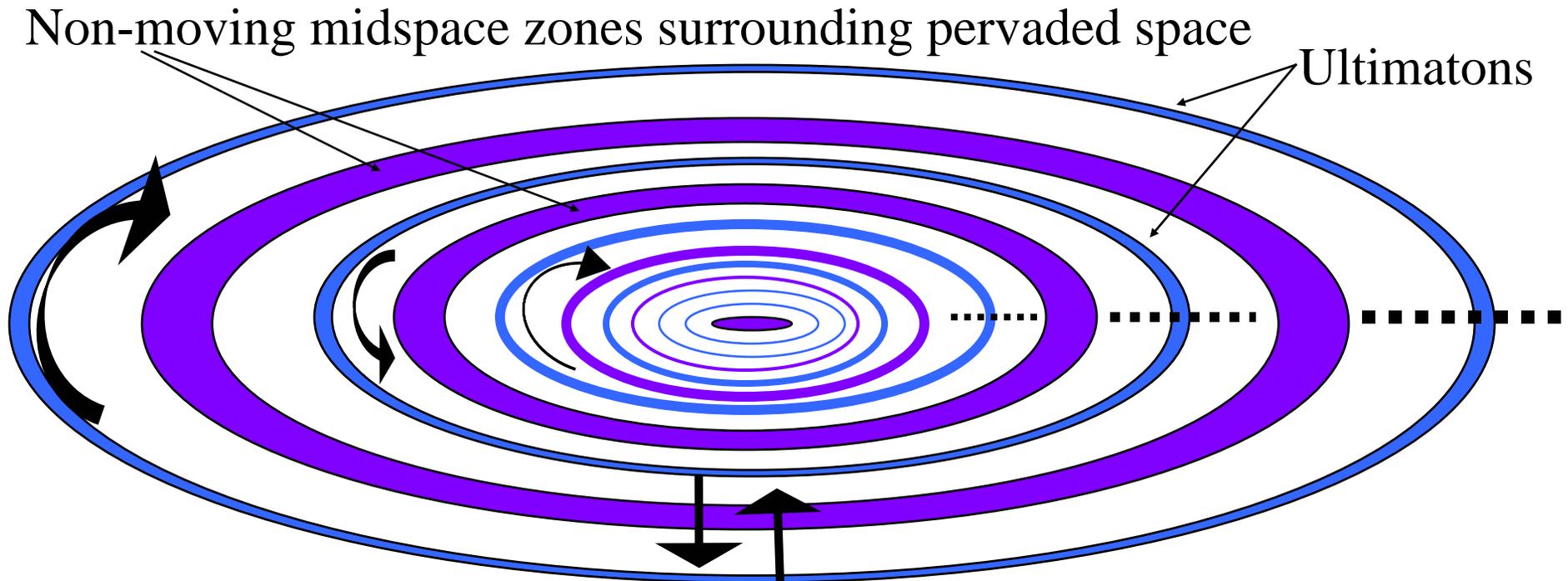
Page-131 Line-44 Para-6

The Maturation of Space Potency into Matter

- “The force organizers initiate those changes and institute those modifications of space-force which eventuate in energy; the power directors transmute energy into matter; thus the material worlds are born.”
Page-468 Para-2

- “Primary Master Force Organizers are the manipulators of the primordial or basic space-forces of the Unqualified Absolute; they are nebulae creators. They are the living instigators of the energy cyclones of space and the early organizers and directionizers of these gigantic manifestations. These force organizers transmute primordial force (pre-energy not responsive to direct Paradise gravity) into primary or puissant energy, energy transmuting from the exclusive grasp of the Unqualified Absolute to the gravity grasp of the Isle of Paradise. They are thereupon succeeded by the associate force organizers, who continue the process of energy transmutation from the primary through the secondary or gravity-energy stage. Page-329 Line-19 Para-3

100 Ultimatons = 1 Electron



- 100 ultimatons (blue) generate 100 octaves of wavelike energy.
- Each blue diameter is 1/2 that of the next larger diameter.
- 3 primary and 7 mixed intermediate diameters exist within each octave allowing for intermediate energy levels - colors or tones.
- White Background is a “force blanket” of energy, capable of very quick (faster than light) quantum wavelike reactions.

Wavelike Manifestations

- “The quantity of energy taken in or given out when electronic or other positions are shifted is always a "quantum" or some multiple thereof, but the vibratory or wavelike behavior of such units of energy is wholly determined by the dimensions of the material structures concerned. Such wavelike energy ripples are 860 times the diameters of the ultimatons, electrons, atoms, or other units thus performing.”
Page-474 Line-15 Para-4

- “The excitation of the content of space produces a wavelike reaction to the passage of rapidly moving particles of matter, just as the passage of a ship through water initiates waves of varying amplitude and interval.”
Page-476 Line-4 Para-1

- Wavelike Manifestations, perfectly synchronized with electronic velocity and ultimatonic revolutions, are a “space-force reaction of the Unqualified Absolute”. Universe reactions “appear between an act and its consequences” (proved by quantum mechanical experiments and J. Bell’s Theorem in 1964).

Astronomic Predictions **Confirmed (Huge Redshifts)**

“Although your spectroscopic estimations of astronomic velocities are fairly reliable when applied to the starry realms belonging to your superuniverse and its associate superuniverses, such reckonings with reference to the realms of outer space are wholly unreliable. Spectral lines are displaced from the normal towards the violet by an approaching star; likewise these lines are displaced towards the red by a receding star. Many influences interpose to make it appear that the recessional velocity of the external universes increases at the rate of more than one hundred miles a second for every million light-years increase in distance. By this method of reckoning, subsequent to the perfection of more powerful telescopes, it will appear that these far-distant systems are in flight from this part of the universe at the unbelievable rate of more than thirty thousand miles a second. But this apparent speed of recession is not real; it results from numerous factors of error embracing angles of observation and other time-space distortions.”

Page-134 Line-15

Solar Internal Temperature and Energy Sources

- “The internal temperature of many of the suns, even your own, is much higher than is commonly believed.” “The surface temperature of your sun is almost 6,000 degrees, but it rapidly increases as the interior is penetrated until it attains the unbelievable height of about 35,000,000 degrees in the central regions. (All of these temperatures refer to your Fahrenheit scale.)” Page-463 Para-1 and Para- 2
- “...the sources of solar energy, named in the order of their importance, are: 1. Annihilation of atoms and, eventually, of electrons, ...” Page-463 Para-3
- “You might try to visualize 35,000,000 degrees of heat, in association with certain gravity pressures, as the electronic boiling point. Under such pressure and at such temperature all atoms are degraded and broken up into their electronic and other ancestral components; even the electrons and other associations of ultimatons may be broken up, but the suns are not able to degrade the ultimatons.” Page-463 Para-5

A Rotating Universe - Einstein and Gödel

- Einstein's universe:
 - “Principle of Relativity”: There is no way to say that one object is *really* at rest and the other is really moving with constant velocity.
 - The speed of light is constant in all such moving frames
- Gödel's universes: Everything rotates around every position!
- The Urantia Book:
 - The speed of light is constant and $E = mc^2$, but
 - All energy rotates around the same Center!
 - The universe has a non-moving geographic Center; there IS a unique position in the universe! Contradicts Einstein's “principle of relativity”.

Solar System Origin

- “Today, your sun has achieved relative stability, but its eleven and one-half year sunspot cycles betray that it was a variable star in its youth. In the early days of your sun the continued contraction and consequent gradual increase of temperature initiated tremendous convulsions on its surface. These titanic heaves required three and one-half days to complete a cycle of varying brightness. This variable state, this periodic pulsation, rendered your sun highly responsive to certain outside influences which were to be shortly encountered.”

Page-655 Line-32 Para-8

- “As the Angona system drew nearer, the solar extrusions grew larger and larger; more and more matter was drawn from the sun to become independent circulating bodies in surrounding space. This situation developed for about five hundred thousand years until Angona made its closest approach to the sun; whereupon the sun, in conjunction with one of its periodic internal convulsions, experienced a partial disruption; from opposite sides and simultaneously, enormous volumes of matter were disgorged. From the Angona side there was drawn out a vast column of solar gases, rather pointed at both ends and markedly bulging at the center, which became permanently detached from the immediate gravity control of the sun.”

Page-656 Line-10 Para-2

Solar System Origin (2)

Evidence for the passing “dark island” scenario - an alternate, now discarded theory:

- Retrograde (reverse) orbits *prove* the solar system has foreign objects; therefore a collision occurred
- Average plane of orbits of planets is 5+% off the plane of sun’s equator in the plane defined by the line of Angona’s approach. This would not be true in a strictly condensation model
- Extremely elongated orbit of recently discovered planetoid, Sedna, corroborates such a passing heavy object
- Three outer planets of Angona captured by sun

Teachable Mind - Necessary **for Evolutionary Life**

“Physics and chemistry alone cannot explain how a human being evolved out of the primeval protoplasm of the early seas. The ability to learn, memory and differential response to environment, is the endowment of mind. The laws of physics are not responsive to training; they are immutable and unchanging. The reactions of chemistry are not modified by education; they are uniform and dependable. Aside from the presence of the Unqualified Absolute, electrical and chemical reactions are predictable. But mind can profit from experience, can learn from reactive habits of behavior in response to repetition of stimuli.”

Page-738 Line-1 Para-1

‘In the later evolution of mortal creatures the Life Carrier Sons provide the physical body, fabricated out of the existing organized material of the realm, while the Universe Spirit contributes the "breath of life.” ’

Page-376 Para-2

Soon-Coming Validation

- Scientists only respect confirmed predictions.
- Without rather spectacular scientific predictions most scientists would never entertain the possibility of an actual communication from “outer space” in the form of a published book.
- Discovery of Atlantis - the First Garden of Eden

Soon-Coming Validation (p.2)

- Scientists will say:
 - There are several (four) outer space “rings of galaxies” (outer space zones) (<5 years)
 - The Andromeda Galaxy is “closer than we thought” (by a factor of 3). (On May 30, 2005 scientists announced: “The Andromeda Galaxy is three times bigger than we thought”.)
 - Spectrographic reinterpretation of Hubble’s Law - the redshift to distance linear relationship - does not imply “big bang”.
 - Overthrow of the big bang cosmology (<15 years) by a rotating universe (<20 years)
- Discovery of a world of non-breathing, (electrically powered ?) humanoids “in close proximity” to Earth (Jupiter’s Ganymede, the largest moon in the solar system?)

The Future

- Time and Space. Time as the moving image of eternity; space as the fleeting shadow (projection) of Paradise realities
- Circular simultaneity of experience replacing the linear “flow of events”
- The Bestowal of Life - design of life recognized
- The Seven Master Spirits and their Seven Different Superuniverses recognized
- The Supreme Being - the unity of the universe known
- Supreme and Ultimate experience in eternity known
- The Spirit Nucleus - that there **is** One is known

Time and Space

- “It is helpful to man's cosmic orientation to attain all possible comprehension of Deity's relation to the cosmos. While absolute Deity is eternal in nature, the Gods are related to time as an experience in eternity. In the evolutionary universes eternity is temporal everlastingness--the everlasting now.”

Page-1295 Line-2 Para-1

- Time is the “moving image of eternity” and space is the “reflected shadow” (projection) of Paradise realities.
- “Mankind is slow to perceive that, in all that is personal, matter is the skeleton of morontia, and that both are the reflected shadow of enduring spirit reality. How long before you will regard time as the moving image of eternity and space as the fleeting shadow of Paradise realities?”

Page-2021 Para-2

Circular Simultaneity

- From Jesus in The Urantia Book, we read, “Animals do not sense time as does man, and even to man, because of his sectional and circumscribed view, time appears as a succession of events; but as man ascends, as he progresses inward, the enlarging view of this event procession is such that it is discerned more and more in its wholeness. That which formerly appeared as a succession of events then will be viewed as a whole and perfectly related cycle; in this way will circular simultaneity increasingly displace the onetime consciousness of the linear sequence of events.”

The Bestowal of Energy and Life

- “Subsequent to even still greater progress and further discoveries, after Urantia has advanced immeasurably in comparison with present knowledge, though you should gain control of the energy revolutions of the electrical units of matter to the extent of modifying their physical manifestations--even after all such possible progress, **forever will scientists be powerless to create one atom of matter or to originate one flash of energy or ever to add to matter that which we call life.**”

Page-468 Line-4 Para-1

- “The force organizers initiate those changes and institute those modifications of space-force which eventuate in energy; the power directors transmute energy into matter; thus the material worlds are born. The Life Carriers initiate those processes in dead matter which we call life, material life. The Morontia Power Supervisors likewise perform throughout the transition realms between the material and the spiritual worlds. The higher spirit Creators inaugurate similar processes in divine forms of energy, and there ensue the higher spirit forms of intelligent life.”

Page-468 Line-11 Para-2

Seven Absolutes of Infinity

- The Seven Absolutes of Infinity, the “premise of reality”
 - Spiritual-mindal-physical, personal-nonpersonal, potential-actual, ... all distinctions are therein contained
 - The Seven Master Spirits - seven different superuniverses
 - The 49 Reflective Spirits and Majeston – chief of Reflectivity
- **The Supreme Being** - Supreme and Ultimate experience – the Gods are related to time as an experience in eternity
- “Matter and spirit and the state intervening between them are three interrelated and interassociated levels of the true unity of the real universe. Regardless of how divergent the universe phenomena of fact and value may appear to be, they are, after all, unified in the Supreme.”

The Spirit Nucleus

- “Mortal man has a spirit nucleus. The mind is a personal-energy system existing around a divine spirit nucleus and functioning in a material environment. Such a living relationship of personal mind and spirit constitutes the universe potential of eternal personality.”

Page-142 Line-1 Para-1

- “Reality of material existence attaches to unrecognized energy as well as to visible matter. When the energies of the universe are so slowed down that they acquire the requisite degree of motion, then under favorable conditions, these same energies become mass. And forget not, the mind which can alone perceive the presence of apparent realities is itself also real. And the fundamental cause of this universe of energy-mass, mind, and spirit, is eternal--it exists and consists in the nature and reactions of the Universal Father and his absolute co-ordinates.”

Page-1477 Line-27 Para-5

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