Plan for lecture on “Torsion Field Theory and Unification Thought” at Sun Moon University, 2018.4.24. by William Stoertz

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Lecture Contents:

Introduction flash through slides 1 and 2 to slide 3

Slides 3~6 : **About Dreams**

What I am going to tell you will seem like a dream. Yet, in reality, we live in an era of dreams being fulfilled. We fly above the clouds, we communicate over long distances free of charge, we mix among races, languages, and nationalities. Even in going to the Moon, however, which had been unthinkable, the point is not that we actually went, so much as the fact that it was well within the realm of possibility for precocious human beings.

Physics is a very physical science. It deals with the hard, cold and blazing hot *stuff*. We can hammer, bake, cook and freeze material substances and they will do what we want. Even going to the Moon — by sheer physical means. Nothing spiritual or mysterious there.

Slides 7~9 : Transcend our material dreams; but avoid the glamour and temptation of “magic” or “miracles.”

So, we live in an age of realized dreams, like miracles, yet not miracles at all. Now what I'm going to tell you has to do with real miracles, the stuff of dreams and magic. So what do we seek — is it something magic? A miracle cure or fix for our world? I came here to talk to you about hard physics. I'm going to entertain the New Physics, which has to do with how to finally get down to the ultimate stuff of life, how to coax cooperation, energy, and, yes, miracles out of the physical substrate we live in.

Slide 10~11 : Building bridges; triangulating the physical theories (and UT);

Science and life are all about building bridges connecting the incompatible, contrasting with one another. We have in physics the very material — yet now physics has ventured upon the metaphysical. And we have in religion the very spiritual — and now the spiritual is seeking and longing for the world of the flesh and the earth. We come seeking one another, and now at last we have found the bridge point, laid the foundations, and undertaken the construction of the bridge itself:

Slides 12~17 : Birth of the New Physics; Unified Field Theory; the quest for the Unified Field.

So we're talking about the birth of a New Physics: A true, bona fide “Theory of Everything,” for which Stephen Hawking is famous. The quest is for a Unified Field Theory — truly a “Theory of Everything.” Then what *is* this “Unified Field”? This is indeed the “24-million-dollar question”!

**Unification Thought:**

Slides 18~19 : Dr. Sun Myung Moon & Dr. Sang Hun Lee — Divine Principle and Unification Thought

Let us begin with Unification Thought, which is the namesake of this course, and the common grounds for my lecture today. As it's no secret, UT was founded by Rev. Sun Myung Moon and his diligent disciple Dr. Sang Hun Lee, who gave his life for his science and God. He, like myself, was once an atheist, and found something better which satisfied his mind, heart and soul, and his undying curiosity for the Truth. Now Dr. Jin Sung Bae, a graduate of this very university, has taken the helm of our auspicious science research collective, as the Unification Thought Institute under the HyoJeong Academy of the Arts and Sciences — indeed a regal institution.

Slides 20~21 : To know God is essential.

Yet there is something we did not do yet: We could not meet God. We could not know Him or Her. We could not talk to Him or Her face to face. We remain still orphaned strangers in a strange land, still separated from and ignorant of our ultimate Parent. So we need to know God, at least to know *about* Him intellectually.

 There must be God. Without God, it is difficult to fathom where all this came from and you and me. So, let us say, “God is a reasonable hypothesis.”

Slides 22~27 : How to know God?

 We can know God's own nature by observing nature all around us and in us as human beings too.

 In nature we observe dualities; these must have their origin in God, the original Source.

 Human beings are the closest and highest creations or beings, in the “image” of God.

 What is God's image? Dual sets of dual essentialities: Masculinity and Femininity (Yang and Yin, Plus and Minus); Sungsang and Hyungsang: Internal and External (Mind and Body).

 All objects, entities, beings and humans in the universe likewise reflect these dual essentialities.

Slides 28~32 : Structure of the Original Image

 God's Sungsang: Heart (Purpose), Logos (Truth, Intellect, Reason, Plan), Creativity (Volition, Will). [“Information” emerges (emanates, issues) from God's Sungsang imbued with these elements.]

 God's Inner Hyungsang: Absolute Values, Values, Ideals, Forms, Principles, Laws, Formulas, Images. [Includes the Platonic realm of forms and ideals, the Spiritual World, religions...]

 God Outer Hyungsang: Energetic: Prime Force, Pre-energy, Pre-matter. [Manifests in the physical world as “Universal Prime Force”.]

Slides 33~35 : Advisory; example of a swinging pendulum

 The diagrams look nice, simple, clear and pleasing. However, as you well know, as soon as we attempt to do anything in reality, things become immensely complex. Take for example the formula for the swinging of a simple pendulum.

Slide 36 : What is this bridge?

 The question in UT then is what exactly is the bridge between Prime Force and the physical world? And another serious question: “How is the spiritual world able to manifest in the real world — how can miracles and apparitions happen?” Religions believe these things, yet no one can explain it. That's the area we are now pioneering.

Slide 37 : Seeking Einstein's theory, I met the Unification Movement

 When I first met this Unification Movement and heard the Divine Principle, immediately I realized that, somehow connected with these insights, lay the answer to the questions of the Unified Field Theory which I knew Einstein was looking for and which I myself was determined to find somehow. During the following forty years, I never forgot our quest for the Unified Field Theory; everywhere I went, on the streets of thousands of cities and towns, I kept thinking about it. Moreover, I witnessed unbelievable “miracles” of all sorts, which convinced me beyond doubt about the reality of God and the operation of the invisible world in the workings of daily reality about me.

Slides 38~42 : Encountering the Torsion Field Theory in Russia

 While working as a missionary in Russia, I continued my quest for the Unified Field Theory; somehow the atmosphere was more conducive, and I made much better progress there. In fact, the ideas I came up with were very similar in many ways to what I later came to know as Torsion Field Theory, which had been developed by Soviet researchers at the International Institute for Theoretical and Applied Physics. Indeed, several times I met people who told me about this Torsion Field Theory. Apparently it continue to be taught and used on into the new Russian Federation. At first I dismissed these, thinking it was just some sort of self-improvement program, or some way to get some glamorous results or wield influence on others.

Slides 43~45 : Encountering the “Physics of God” in Korea

 Then imagine my surprise when I came across it again here in Korea, in the person of a 고려인 from Uzbekistan, who was trained in Torsion Field Theory back in the Soviet Union. I was teaching him our Divine Principle, while he kept bringing up comments about this “Physics of God” as he called it. The other members tried to get him to shut up and just listen, but instead I gave him equal time and let him teach us. Then I was amazed: It actually did make sense, and we agreed on just about everything!

 I was flabbergasted when Dr. Jin Sung-bae himself gave me a book called “The Physics of God”, originally in Russian but translated into poor English, and told me to study and review it. The Torsion Field Theory had come back again. It was clear God was placing this square in my lap. So I got started.

 By and by, as I studied the book and talked to my Uzbek friend over many coffee hours, and pored over the book from front to back numerous times, I began to familiarize myself with Torsion Field Theory, and I became more and more impressed with it, and found it is coherent, consistent, well structured, deeply rooted, intensively researched, well written, and answers most questions people have in physics and elsewhere. It fills in several missing pieces of our own Unification Thought structure. I felt I had reunited with my long-lost brother.

Slides 46~47 : Issues in Fundamental Physics

**Deep questions and issues in fundamental physics**

 1. Structure, components and geometry of the physical vacuum.

 2. Why and how are the physical constants so perfect and precisely tuned to support life and matter?

 3. What is the original source of the energy of the Big Bang?

 4. How are the quantum fields composed, governed, regulated, integrated, calculated by nature?

 5. How can all the physical interactions be united (unified)?

 6. How is the lawfulness of physical properties (e.g. time, light-speed) so precisely regulated and maintained?

There are areas which physicists dare not touch; yet if these are true, they become the responsibility of physicists to explain in concrete terms. Still it is too unbelievable; it makes them feel crazy, so they take the approach of avoiding these areas.

 7. What is consciousness? How does it interact with matter, especially in the brain?

 8. Is the mind a function of the brain (like a computer) or is it some property or field transcending the body?

 9. What about paranormal phenomena (clairvoyance, telekinesis, telepathy, remote viewing, spiritual healing)?

 10. Dreams, prophecies, visions, ghosts, miracles…

11. What are UFOs and crop circles: aliens, angels, spirits, the consciousness of the earth speaking to us, time travelers?

12. Does God exist? Did he design and create the world? Does he involve in the world and our lives? Can we reach him?

13. The efficacy of religious faith, rites, practices (exorcism, healing, prayer, speaking in tongues, miracles), Holy Saints.

14. Near-death experiences (N.D.E.) and the after-life (life after life, the next world, the spiritual realm).

15. Fundamental physicists have loaded too many of the properties onto the geometry of space-time.

Slides 48~49 : Enigmas in Fundamental Physics

Dark matter remains elusive. It is a serious problem in physics and cosmology. Billions spent, yet nothing turned up.

The CERN particle accelerator found the Higgs boson but could not confirm Supersymmetry (strings, SUSY).

Slides 50~59 : Torsion Field Theory can answer these!

**Torsion Field Theory**

 By posing these issues before you, at the same time I am suggesting, hinting in fact, that we have in fact now found the solution. The final pieces of the bridge linking the missing pieces have been joined as recently as this year. It is not that these phenomena are unheard-of; rather, they have been known for millennia. But until now the realms of religion or spirituality and science or material have remained strictly separated.

 Up till now religion and science have observed the civil rule of forbearance — keeping to themselves, gruffly acknowledging their counterpart or foe if you will, but not invading one another. However, from now, the time has come to step across the veil and to make unity, to build the bridge, and to hold hands. Both can complement one another.

 At this point, before launching into the technicalities of the foundations of space-time and the technical vacuum, please allow me to insert two caveats: (1) The first is regarding terminology. There are various terms used by different people. Many people have researched the physical vacuum, the space-time continuum, the hypothetical constituent particles, and the details of the ontological hierarchy at the foundation of existence. So we may use these terms interchangeably, and at times with a bit of unclarity, ambiguity, or confusion. This is still the situation reigning in the areas of both unified field theory and torsion field theory. (2) The second is regarding the status of the theory itself. At present, both the unified field theory and torsion field theory are “anybody's game.” Whoever has a likely sounding theory can win the field, yet not necessarily be right. The putative particles being dealt with are extraordinary minute, way under the quantum radar, at the Planck scale of 10-35 meters. They may never be actually isolated, but rather we have to infer their existence by means of the conceptual tools at our disposal. Once upon a time philosophers such as Plato and Democritus came up with the idea of the forms of reality and the model of the atom — totally lacking particle accelerators, electron microscopes, computers, or laser beams.

 With this disclaimer of sorts I will embark upon the presentation of the Torsion Field Theory as I understand it.

Slides 51~57 : Particle spin and torsion field as a “spin” phenomenon:

“Spin” on a quantum and subquantum level is an analogy, but is not actually physical rotation as we picture it.

Slide 55 : The Torsion Field Particles (“Phytons”): their structure and function:

The Torsion Field Particles (Phytons)

 1. Infinitesimal particles proposed by physicists as the foundation of the space-time lattice (physical vacuum)

 2. Duality of the phytons (an immaterial information component + the physical basis of matter/energy)

 3. Duality of phytons as quantum and relativistic particles: interact with both quantum field and gravity

 4. The “bridge” between God in the Inner Sungsang/Inner Hyungsang realm and the physical world

 5. Function of the phytons as mediators of God's directive energy (information -> physical changes)

 6. Function of the phytons as the foundation of the elementary particles (quarks, leptons, etc.)

 7. Phytons as the actual “gravitons” mediating the gravitation interaction by warping the space-time continuum

 8. Function of the phytons as superluminal communication substrate in the universal quantum field

 9. Function of the phytons as supercomputers to instantly process the quantum wave forms

 10. Function of the phytons as memory components of the space-time lattice (”water has memory”)

 11. Property of spin at extremely high frequency; i.e. leads to flattening configuration of the phytons

 12. Phytons not subject to the quantum limitations because of Heisenberg's Uncertainty Principle

 13. Phytons themselves become the components or prime building blocks for the “strings” of string theory

 14. Phytons endowed with awesome energy — much more than even the strong nuclear force — the potential source for “Cosmic Free Energy” and the basis for the “Vacuum Free Energy”.

Slides 58~60 : The structure, layers, and hierarchical relationships of the invisible realm underlying space-time:

Slide 58 : The structure of the physical vacuum (three layers underlying space-time):

 1. Absolute nothing (God) — Creator, Absolute Universal Consciousness, with a Master Plan/Purpose

 2. Torsion field — the realm of the information field; coordinative, executive, reporting, communicating function

 3. Physical vacuum proper (space-time lattice) — gives rise to physical matter (elementary particles)

Slide 59 : The structure of the Original Image (Divine Image, God):

TFT does not reveal the structure of God, referred to as “Image of God” in the Bible; Unification Thought reveals this. Note the “Trinity” type of structure or pattern of the Original Image, analogous to the Christian Trinity.

 1. God as the origin, center and source (Purpose of God centering on Heart or **심정**)

 2. Inner sungsang: Intellect, Emotion and Will (or Heart, Logos and Creativity)

 3. Inner hyungsang: Absolute values, values, ideals, forms, principles, laws, formulas, images

Slide 60 : The structure of the Original Image (Divine Image, God):

The big riddle in theology: How do we go from invisible, immaterial God to the visible, substantial, material world?

Details of the process of creation and the foundation of existence (from God to the material world):

Nothingness from God→God projects mathematical (pseudo-Euclidean space)→the ubiquitous information field is connected to God's Sungsang and Hyungsang→phytons populate the mathematical space as dualistic entities susceptible both to the information field (Prime Force) from God and the Universal Prime Force in the physical realm→this is the Primary Torsion Field (still “chaos”)→God programs the Primary Torsion Field (this constitutes issuing “The Word of Creation”)

Creation process: How the material universe came into being?

 1. Standard explanation of cosmology (physics): the “Big Bang”

 2. Standpoint of physics: Everything can be deduced or derived from basic physical principles.

 3. From where the enormous energy, matter, and orderly principles (laws) of nature?

 4. Standpoint of physics: Monism: All evolved from “One”.

 5. Big question: From where arose orderly rules, life, and consciousness?

Slide 61 : The Primary Torsion Field: its structure and function:

The Torsion Field

 1. Evolution of the Primary Torsion Field from the Primary Vacuum

 2. Populating the Primary Torsion Field with undifferentiated Torsion Field Particles (phytons)

 3. Universal programming of the Primary Torsion Fields with its constituent particles via the Information Field

Slides 62~65 : Always connect back to reality: This amalgamation of theories relates to nature, people, life, love, and God

 Heart → Intellect, Emotion and Will → Truth, Beauty, Goodness → Science, Art, Philosophy & Religion

Questions yet remaining:

 1. Was there actually a singularity and a Big Bang or was there steady-state creation from finite space and conditions?

 2. How does the torsion field (the phytons) give rise to elementary particles?

 3. Can the torsion field via the physical vacuum give rise to elementary particles, or can they only come from pre-existing energy packets dating back to the Big Bang?

 4. How is the gravitational unified field communicated to the torsion field and then how do the phytons mediate the gravitational field to warp the topology of the physical vacuum?

 5. Then is “gravity” a physical force or a mathematical acceleration in space-time?

 6. How can we substantially demonstrate evidence that upholds the Torsion Field Theory?

 7. How does the torsion field (physical vacuum) deal with the relativistic relations between independently moving coordinate frames (reference frames)? Is this mediated by the information field?

 8. What is time? How do we deal with time? What is “space-time”?

 9. How does the torsion field (physical vacuum) relate to radio waves, etc.?

 10. What inroads are there to start using TFT for industrial applications? Is this just the informational realm, or does it provide substantial ways to do things we couldn't do before in the area of technology?

Slide 66 : Q&A:

**Question and Answer and Discussion Section**

What questions do you have?

Have you any criticisms or objections to any of the content I have presented today?

Do you have any advice or additional ideas to contribute?

Do you think science and religion can unite in this way?