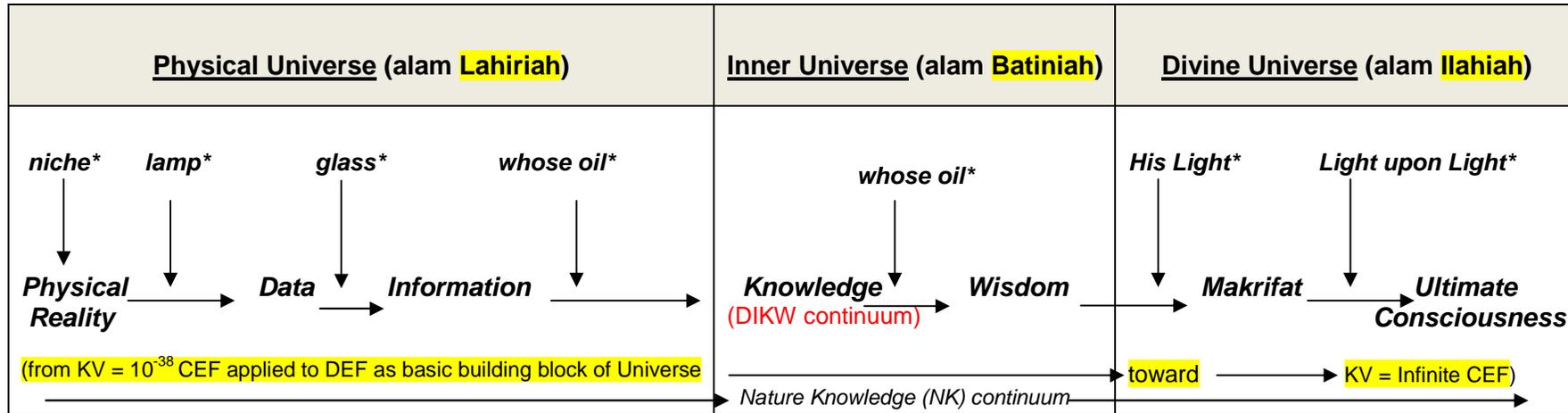


**HUMAN KNOWLEDGE ENLIGHTENMENT PROCESS WITHIN NATURE KNOWLEDGE CONTINUUM :**  
**NATURE KNOWLEDGE THEORY (NKT) VIEW TOWARD M-THEORY\***



\* From QS An Nur (24) : 35 (read page 2)

**( PARTICLE - WAVE DUALITY Phenomenon )**

\***M-Theory** : a fundamental theory of Physics that is a candidate for the Theory of Everything (TOE) (Stephen Hawking et al : THE GRAND DESIGN – Bantams Book, 2010)

**Nature Knowledge Management** (covering Nature Knowledge continuum ranging from Knowledge Value (KV) =  $10^{-38}$  CEF toward KV to Infinite CEF as described by **Nature Knowledge Theory (NKT)** as new (hidden) Basic Science - URL <http://tinyurl.com/oczw455> and **New Integrated Formal Science (NIFS)** as new Formal Science - URL <http://tinyurl.com/ltv23eu>

The description bounded to **Particle - Wave Duality**, **Fine Tuned Universe** and **Anthropic Principle** phenomenon in Physics and Cosmology :

- “Nature Knowledge Theory (NKT) is the clue to **Anthropic Principle** of Universe” – URL <http://tinyurl.com/pgjhf17>
- “Copenhagen Interpretation revisited : Nature Knowledge Theory (NKT) view on **Wave – Particle Duality** phenomenon of Universe” – URL <http://tinyurl.com/munz9rj>
- “How our Knowledge Value (KV) gives solution to **fine – tuned Universe**” (see pp 3 – 5) – URL <http://tinyurl.com/ms2oe68>

- **Wave–particle duality** is a theory that proposes that all matter exhibits the properties of not only particles, which have mass, but also waves, which transfer energy.
- **Anthropic principle** (from the Greek, anthropos, human) is the philosophical consideration that observations of the physical Universe must be compatible with the conscious life that observes it
- **The fine-tuned Universe** is the proposition that the conditions that allow life in the Universe can only occur when certain universal fundamental physical constants lie within a very narrow range

### **QS An-Nur (24) : 35 - Light Upon Light / Cahaya diatas Cahaya**

#### **AL-NUR (24)**

#### **"The Light"**

*(Revealed at Medina, Verses 64)*

**In the name of Allah, The Merciful, The All-merciful**

God is the Light of the heavens and the earth; the likeness of His Light is as a niche with a lamp in it; the lamp is in a glass; the glass is as it were a glittering star kindled from a blessed tree of olive, which is neither of the East nor of the West, whose oil would shine even if no fire touched it; Light upon Light; God guides to His Light whom He will; And God describes similitudes for mankind; and God knows everything;(35)

**or**

“Allah adalah cahaya bagi langit dan bumi. Perumpamaan cahayaNya adalah seperti lubang (**niche**) yang didalamnya ada pelita (**lamp**). Pelita itu dalam kaca (**glass**). Dan kaca itu laksana bintang yang berkilauan yang dinyalakan dengan minyak pohon yang diberkati, yaitu minyak zaitun yang bukan di timur dan tidak juga di barat. Minyaknya (**whose oil**) hampir menerangi sekalipun tidak disentuh api. Cahaya diatas cahaya (**Light upon Light**). Allah memberi petunjuk kepada cahayaNya (**His Light**) kepada siapa yang dikehendakiNya. Allah membuat perumpamaan-perumpamaan bagi manusia dan Allah Maha Mengetahui segala sesuatu”

@mdsanto,2009

### **Knowledge Value (KV) as Nature Knowledge metrics to finding the solution of fine-tuned Universe**

#### **The resulting absolute value scaling ratio applied to Nature Knowledge continuum generated from Human System Biology-based Knowledge Management (HSB KM) model framework**

<p><b>Sub Quantum Mechanic (SQM) to Quantum Mechanic (QM) Universe</b></p> <p>Starting with <b>Knowledge Value (KV) = <math>10^{-38}</math> CEF</b> applied to DEF (duo-entity-force), a <b>boson force elementary mass less particle unit of psycho-somatic Universe</b> in the form of entity pairing between 4<sup>th</sup> force (<i>Graviton</i>) and 5<sup>th</sup> force (<i>Known</i>). DEF discovered through reversed engineering mechanism on our Knowledge Management (KM) model framework (<a href="http://mobeeknowledge.ning.com">http://mobeeknowledge.ning.com</a>). We believed DEF is the long sought of Higgs Boson particle</p>	<p><b>Classical Mechanic (CM) :</b></p> <p><b>Physical World</b></p>	<p><b>Classical Mechanic (CM) :</b></p> <p><b>Biological World (Non Human Knowing Tools loci)</b></p>	<p><b>Classical Mechanic (CM) :</b></p> <p><b>Human World</b></p> <ul style="list-style-type: none"><li>• KLC, KMC and KHC as the source of psycho-somatic Nature loci</li><li>• K-Value = #Converted Human Weighted Score (WS) from <b>relative value scaling ratio converted into absolute value scaling ratio</b> (Thurstone method)= 1.0 (KLC) + 3.0 (KMC) + 5.0 (KHC) = around</li></ul>	<p><b>Beyond Classical Mechanic (BCM) :</b></p> <p><b>Beyond Human World</b></p>
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<p><b>KV = 10<sup>-38</sup> CEF</b></p>	<p><b>K-Value &lt; 1.0 CEF</b></p>	<p><b>K-Value 1.0 - 4.0 CEF</b></p>	<ul style="list-style-type: none"> <li>• <b>9.0 CEF as Human Max Possible Score</b></li> <li>• <b>Thurstone direction indicating the magnitude of difference between Nature loci</b></li> </ul>	<p><b>K-Value &gt; 9.0 to ~ (infinite CEF)</b></p>
<div data-bbox="421 316 763 539" data-label="Image"> </div> <p data-bbox="421 544 763 568"><b>The Big Bang or else phenomenon</b></p>			<div data-bbox="1420 411 1742 533" data-label="Image"> </div>	<p data-bbox="1868 395 2049 671"><i>The Universe knows something we don't. And it acts on cosmic scales (AIDAN RANDLE-CONDE / USLHC / USA – CERN )</i></p>

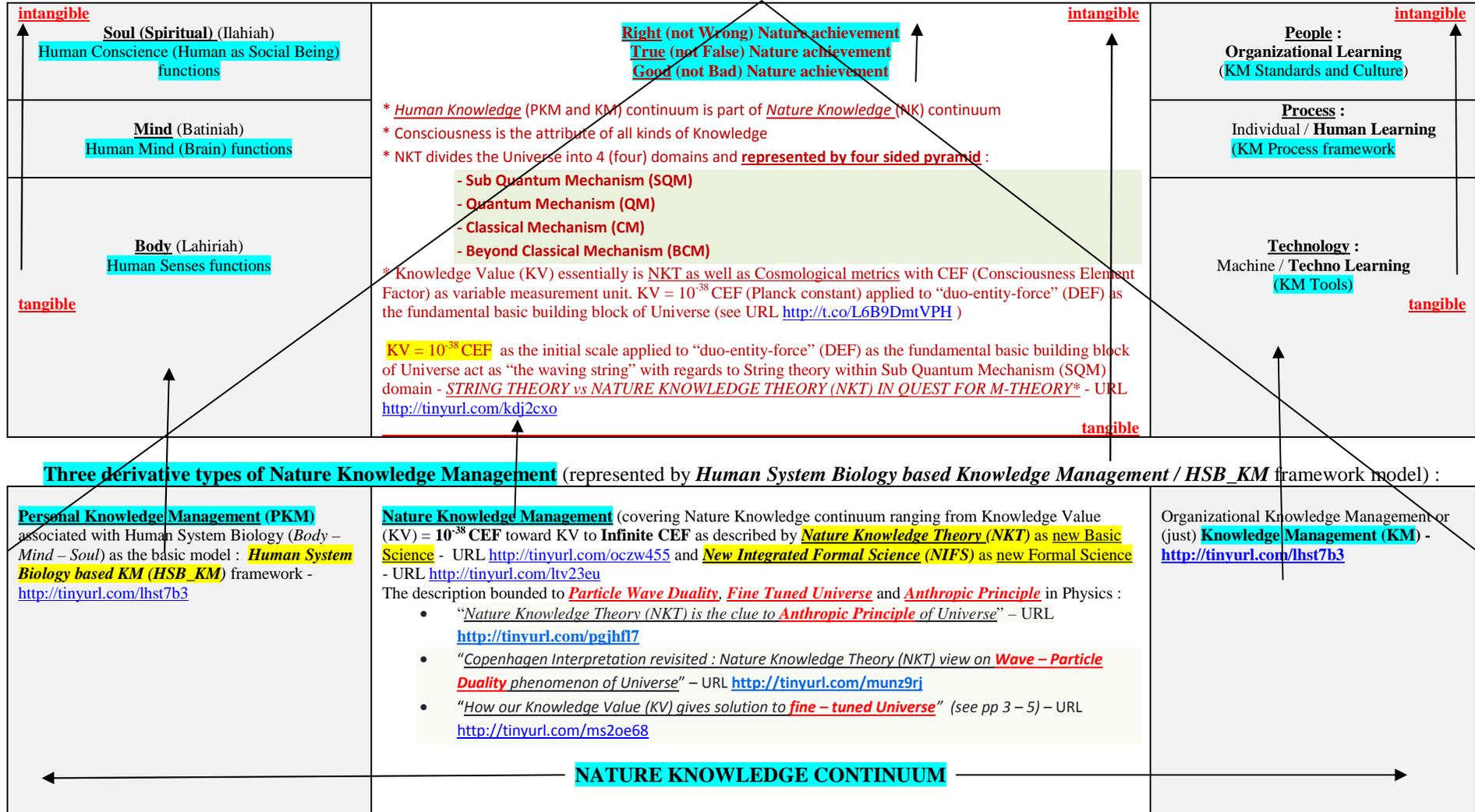
**NEXT GEN KM : NON DIKW / BEYOND KNOWLEDGE MANAGEMENT (BKM) - TRANS DISCIPLINARY APPROACH**

<p><b>Personal Knowledge Management (PKM)</b> associated with Human System Biology (<i>Body – Mind – Soul</i>) as the basic model : <b>Human System Biology based KM (HSB_KM)</b> framework - <a href="http://tinyurl.com/lhst7b3">http://tinyurl.com/lhst7b3</a></p>	<p><b>Body</b> (Lahiriah) ~ Human Senses functions</p>	<p><b>Mind</b> (pikiran / Batiniah) ~ Human Mind (Brain) functions</p>	<p><b>Soul (Spiritual)</b> (Ilahiah) ~ Human Conscience (Human as Social Being) functions</p>
<p><b>Nature Knowledge Management</b> (covering Nature Knowledge continuum ranging from</p>	<p><b>Good (not Bad) Nature</b></p>	<p><b>True (not False) Nature achievement</b></p>	<p><b>Right (not Wrong) Nature</b></p>

<p>Knowledge Value (KV) = <math>10^{-38}</math> CEF toward KV to Infinite CEF as described by <b>Nature Knowledge Theory (NKT)</b> as <b>new Basic Science</b> - URL <a href="http://tinyurl.com/oczw455">http://tinyurl.com/oczw455</a> and <b>New Integrated Formal Science (NIFS)</b> as <b>new Formal Science</b> - URL <a href="http://tinyurl.com/lty23eu">http://tinyurl.com/lty23eu</a></p> <p>The description bounded to <b>Particle Wave Duality</b>, <b>Fine Tuned Universe</b> and <b>Anthropic Principle</b> in Physics :</p> <ul style="list-style-type: none"> <li>• “<i>Nature Knowledge Theory (NKT) is the clue to Anthropic Principle of Universe</i>” – URL <a href="http://tinyurl.com/pgjhf17">http://tinyurl.com/pgjhf17</a></li> <li>• “<i>Copenhagen Interpretation revisited : Nature Knowledge Theory (NKT) view on Wave – Particle Duality phenomenon of Universe</i>” – URL <a href="http://tinyurl.com/munz9rj">http://tinyurl.com/munz9rj</a></li> <li>• “<i>How our Knowledge Value (KV) gives solution to fine – tuned Universe</i>” (see pp 3 – 5) – URL <a href="http://tinyurl.com/ms2oe68">http://tinyurl.com/ms2oe68</a></li> </ul>	<p style="text-align: center;"><b>achievement</b></p> <p style="text-align: center;">← <b>NATURE</b></p> <p><b>KV = <math>10^{-38}</math> CEF</b> as the initial scale applied to “duo-entity-force” (DEF) as the fundamental basic building block of Universe act as “the waving string” with regards to String theory within Sub Quantum Mechanics (SQM) domain - <b>STRING THEORY vs NATURE KNOWLEDGE THEORY (NKT) IN QUEST FOR M-THEORY*</b> - URL <a href="http://tinyurl.com/kdj2cxo">http://tinyurl.com/kdj2cxo</a></p>	<p style="text-align: center;"><b>KNOWLEDGE</b></p> <p>* <b>Human Knowledge</b> (PKM and KM) continuum is part of <b>Nature Knowledge (NK)</b> continuum</p> <p>* Consciousness is the attribute of all kinds of Knowledge</p> <p>* NKT divides the Universe into 4 (four) domains :</p> <ul style="list-style-type: none"> <li>- Sub Quantum Mechanics (SQM)</li> <li>- Quantum Mechanics (QM)</li> <li>- Classical Mechanics (CM)</li> <li>- Beyond Classical Mechanics (BCM)</li> </ul> <p>* Knowledge Value (KV) essentially is NKT as well as <b>Cosmological metrics</b> with CEF (Consciousness Element Factor) as variable measurement unit. KV = <math>10^{-38}</math> CEF (Planck constant) applied to “duo-entity-force” (DEF) as the fundamental basic building block of Universe</p>	<p style="text-align: center;"><b>achievement</b></p> <p style="text-align: center;"><b>CONTINUUM</b> →</p> <p style="text-align: center;"><b>KV = Infinite CEF</b></p>
<p>Organizational Knowledge Management or (just) <b>Knowledge Management (KM)</b> - <a href="http://tinyurl.com/lhst7b3">http://tinyurl.com/lhst7b3</a></p>	<p style="text-align: center;"><b>Technology :</b> Machine / <b>Techno Learning (KM Tools)</b></p>	<p style="text-align: center;"><b>Process :</b> Individual / <b>Human Learning (KM Process framework)</b></p> <p style="text-align: center;"><b>DIKW (Human Knowledge) Continuum</b> →</p>	<p style="text-align: center;"><b>People :</b> <b>Organizational Learning (KM Standards and Culture)</b></p>

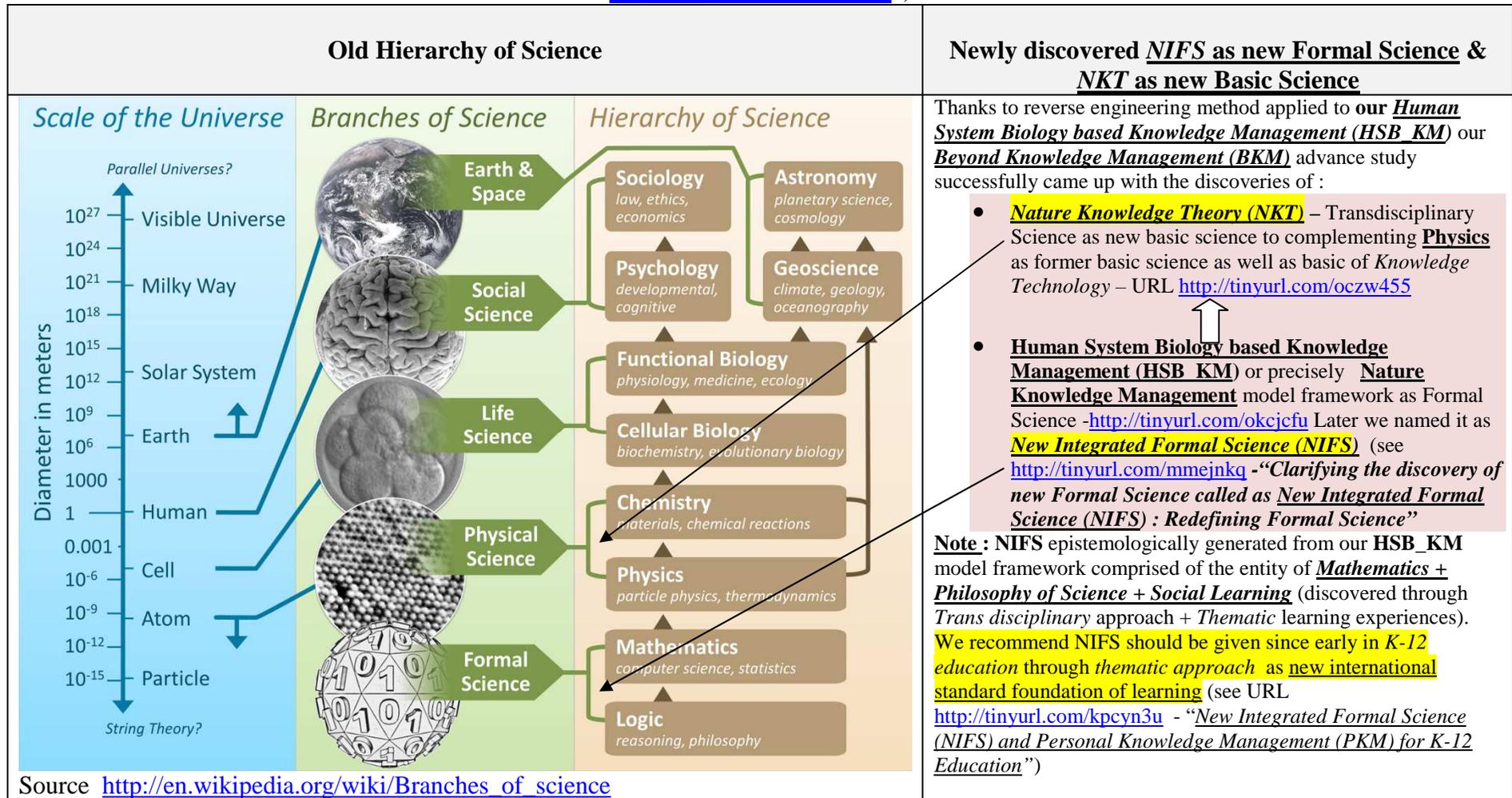
**THE PYRAMID KNOWLEDGE : REVEALING THE PHYSICS OF UNIVERSE THROUGH NATURE KNOWLEDGE THEORY**

**(NKT)**



**THANKS TO KNOWLEDGE MANAGEMENT – WE DISCOVERED THE HIDDEN BASIC SCIENCE DEDICATED TO THE SCIENCE OF 21<sup>ST</sup> CENTURY !**

( **Md Santo** (2014) : *BEYOND KNOWLEDGE MANAGEMENT (BKM) ADVANCE STUDY* – URL <http://tinyurl.com/ojbu43f> and <http://tinyurl.com/lhst7b3> )



**New Integrated Formal Science (NIFS) for education derived from *Human System Biology* – based  
Knowledge Management (HSB\_KM) as newly discovered Formal Science**

**Know What** learning (Cognitive Material / **Mathematical learning / Inductive thinking** or Divergent (top down) learning (incl. *Computer Science* and *Statistics*)

NB : Weighting Score = 1

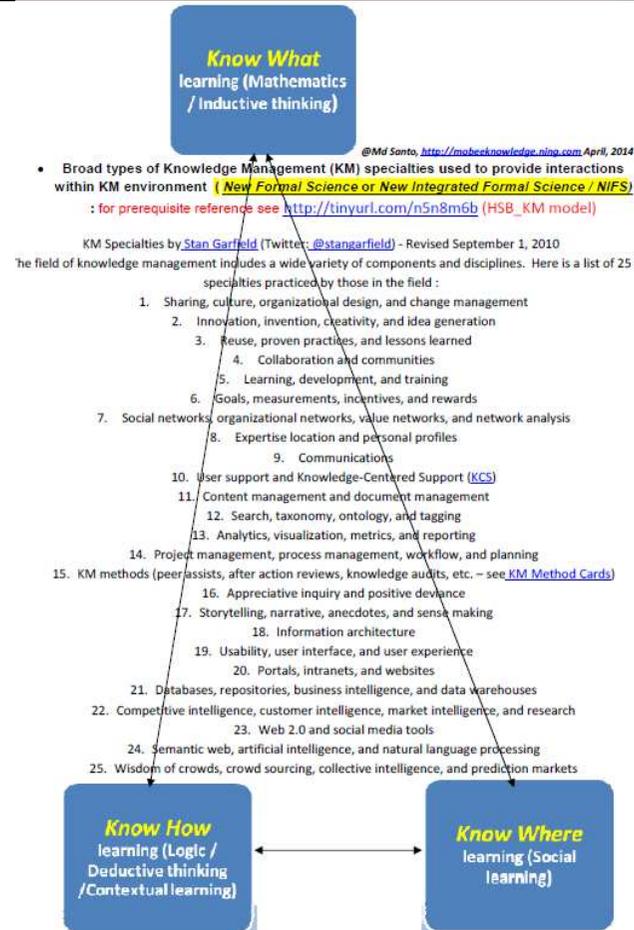
**Know How** learning (Cognitive Methodology / **Contextual . Thematic learning / Deductive thinking** or Convergent (bottom up) learning (incl. *Reasoning* and *Philosophy*)

NB : Weighting Score = 3

**Know Where** learning (**Social learning**) : **learning with and from others**, often — but not always — with social media tools. We named it as **Socioductive thinking** or middle up – down learning (integrated with **Know What** and **Know How** learning becoming an entity called as **New Integrated Formal Science (NIFS)**

NB : Weighting Score = 5

By definition : **Socioductive thinking** or



<p><i>Social Learning is a powerful approach to sharing and discovering a whole array of options, leading to more informed decision-making and a more intimate, expansive and dynamic understanding of the culture and context in which we work...</i></p> <p>Ref : <a href="http://tinyurl.com/n5n8m6b">http://tinyurl.com/n5n8m6b</a> - "Redefining Formal Science through linking up Consciousness with Physics : Explaining the discovery* of Human System Biology – based Knowledge Management (HSB_KM) as New Formal Science"</p>	<p>( Source : <a href="http://tinyurl.com/mfx8deq">http://tinyurl.com/mfx8deq</a> - "Human Knowing interaction in Knowledge Management" (Integrated Formal Sciences)",</p> <p><b>By definition</b>, New Integrated Formal Science (NIFS) is an entity comprised of <u>dynamical continuous interaction among Inductive thinking, Deductive thinking and Socioductive thinking</u>. Based from the study of <i>Nature Knowledge Theory (NKT)</i>, Inductive thinking and Deductive thinking both are dependent to SpaceTime (DST) contrary with Socioductive thinking that could achieving DST to entirely IST achievement thanks to the factor of <i>Consciousness Transferring Phenomenon (CTP)</i></p> <p>Recommended references :</p> <ul style="list-style-type: none"> <li>▪ <a href="http://tinyurl.com/oqyj2wk">http://tinyurl.com/oqyj2wk</a> - "The discovery of new Basic Science and the making of new Vision in Science"</li> <li>▪ <a href="http://tinyurl.com/kqj327l">http://tinyurl.com/kqj327l</a> - "THE MANIFESTO OF FUTURE SCIENCE" (<b>The VISION</b>)</li> <li>▪ <a href="http://tinyurl.com/kcq4rj6">http://tinyurl.com/kcq4rj6</a> and <a href="http://tinyurl.com/qj29onv">http://tinyurl.com/qj29onv</a> - "Nature Knowledge Theory based Knowledge Management Programs" (<b>The MISSION</b>)</li> <li>▪ <a href="http://tinyurl.com/lhst7b3">http://tinyurl.com/lhst7b3</a> - "Human System Biology-based Knowledge Management (HSB_KM) model framework (newly modified) and KM Maturity metrics model"</li> </ul>
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**The first SpaceTime map of the Universe generated from Nature Knowledge Theory (NKT)\* as the candidate of M-Theory\*\***

<p><b>Dimension of Universe (SPACETIME ZONE)</b></p>	<p><b>SPACETIME ZONE TRAITS : Independent to SpaceTime (IST) / Dependent to SpaceTime (DST)</b></p>	<p><b>Knowledge Value (KV) magnitude : showing sequence of Nature Knowledge (NK)</b></p>
	<p><u>SpaceTime (ST)</u> is the notion of human being in the Universe to accommodate the existence of <i>Matter</i> and <i>Energy</i> mostly within</p>	<p><u>Absolute Value Scaling Ratio</u> as Knowledge Value (KV)* measurement in <i>CEF (Consciousness Element Factor)</i> as measurement variable unit within Nature Knowledge continuum (obtained from <a href="http://tinyurl.com/d7abpk5">http://tinyurl.com/d7abpk5</a> - see : <u>Thurstone scaling technique</u> - page 7 on paragraph of "Knowledge Value (KV) measurement" )</p> <p>*KV as NK continuum or Cosmological metrics representing <i>Particle</i> (matter) as well as <i>Wave</i> (consciousness attribute) within <i>Particle – Wave Duality</i> phenomenon ( see "Copenhagen</p>

	classical mechanic (CM) rather than quantum mechanic (QM). We tend to say ST is human illusion with regard to QM and CM	<i>Interpretation revisited : Nature Knowledge Theory (NKT) view on Wave – Particle Duality phenomenon of Universe” – URL <a href="http://tinurl.com/munz9rj">http://tinurl.com/munz9rj</a></i>
1. Sub Quantum Mechanics (SQM)	<b>The limit of fundamental elementary mass less particle unit or basic building block of Universe : DEF (duo-entity-force)</b>  <b>IST</b>	1.0. Starting point from $KV = 10^{-38}$ CEF (as Planck constant) applied to <b>DEF (duo-entity-force)</b> , a fundamental elementary mass less particle unit or basic building block of Universe in the form of entity pairing between 4 <sup>th</sup> force ( <b>Graviton</b> ) representing somatic mediating particle and 5 <sup>th</sup> force ( <b>Knowon</b> ) representing psycho (consciousness) mediating particle both as an entity in superposed state between Dependent to SpaceTime (DST) for Graviton and Independent to SpaceTime for Knowon. The existence of DEF discovered as implication of reversed engineering mechanism driven with Inverted Paradigm Method (IPM) on our <b>Human System Biology based Knowledge Management (HSB_KM)</b> model framework ( <a href="http://t.co/Ri7IY8HP">http://t.co/Ri7IY8HP</a> ). Actually <b>Knowon</b> as “the waving” 5th force will act as “the waving string” with regards to String theory within Sub Quantum Mechanism (SQM) Universe domain
2. Quantum Mechanics (QM)	<b>The limit of Higgs Boson and <math>E = MC^2</math></b> <b>IST to DST</b> (partly unobserved and partly observes / sensed by observer)	1.1. Up to $KV = 10^{-16}$ CEF
3. Classical Mechanics (CM)	<b>DST</b>	<b>1.1. Classical Mechanics (CM) level loci</b> 1.1.1. Physical loci : Up to $KV = 10^{-2}$ CEF 1.1.2. Biological loci and 1.1.2.1. Non Human loci : Up to $KV = 1.0$ CEF <b>1.1.2.1. Human loci (Human Knowledge loci)</b> 1.1.2.1.1. Undifferentiated Human loci <b>1.1.2.1.2. Differentiated Human loci (Special psycho-somatic Human Knowing tools)</b> 1.1.2.1.2.1. Human Senses (Peripheral Nerves System incl. Autonomic Nerve System) as Primary Human Knowing Tools producing “Knowledge with Lower Consciousness” ( <b>KLC</b> ) representing human sense-taste-feeling-feel-flavor-sensation (= <b>human senses</b> ) 1.1.2.1.2.2. Human Brain (Central Nerves System) as Secondary Human Knowing Tools producing “Knowledge with Medium Consciousness” ( <b>KMC</b> ) representing human reason-mind-intellect-intelligence-way-idea (= <b>human mind</b> ) 1.1.2.1.2.3. Human Genomic DNA (DNA Consciousness) as Tertiary Human Knowing Tools producing “Knowledge with Higher Consciousness” ( <b>KHC</b> ) representing human will – desire – wish (= <b>human conscience</b> ) = Human as Social being

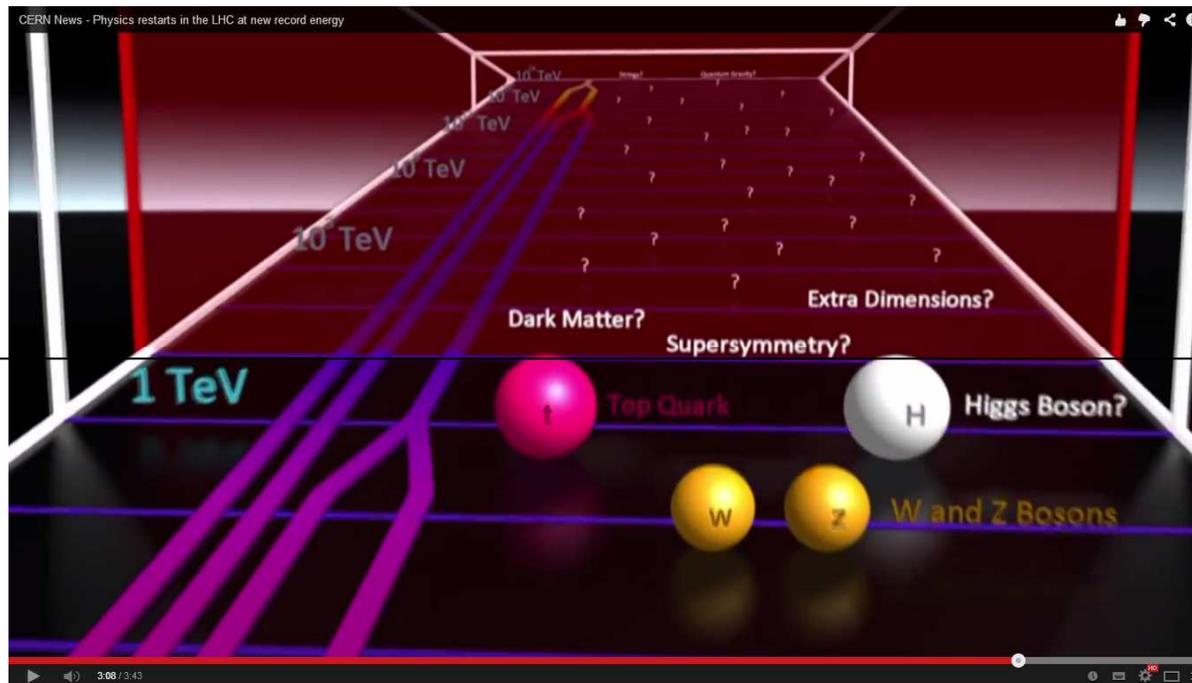
		(Human Max Possible Score KV around 9.0 CEF (as cumulative KV of KLC = KMC + KHC = 1.0 + 3.0 + 5.0 = 9.0 CEF) either for individual KM (PKM) or organizational KM and it is subject to change depend on the deals among KMers (inter subjective agreement)
4. <b>Beyond Classical Mechanics (BCM)</b>	<b>E = MC<sup>2</sup> not anymore valid and relevant</b> <b>DST to IST</b> (partly unobserved and partly observes / sensed by observer)	. 1.2. KV from over Human Max Possible Score or KV through <b>infinite CEF</b>

\* **Nature Knowledge Theory (NKT) discovered and developed by us (2008 – 2013) as New Basic Science complementing Physics within hierarchy of Science**, by definition is a theory developed and based on adoption to postulate saying “*The Universe or the Nature Knowledge is the source and center of Consciousness*” instead of “*Mind Brain or Human Being is the source and center of Consciousness*”. Surely NKT is within Nature Knowledge (NK) continuum domain instead of Data – Information – Knowledge – Wisdom or DIKW continuum as dominated our current scientific mind set since 17th century (Newtonian era) with noted that essentially DIKW is just Human Knowledge which is essentially part of Nature Knowledge continuum  
By any mean, Nature Knowledge Theory (NKT) epistemologically containing two promising aspects. Firstly, what we called as “**New Physics (NP)**”. Secondly, containing what we called as “**Beyond Knowledge Management (BKM)**”. Both NP as well as BKM could behaving as **broadened practice of modern Physics as well as beyond DIKW continuum of modern Knowledge Management (KM)**

\*\***M-Theory** : a fundamental theory of Physics that is *a candidate for the Theory of Everything (TOE)* (Stephen Hawking et al : *THE GRAND DESIGN* – Bantams Book, 2010)

## Nature Knowledge Theory (NKT) based new generation of Standard Model of Particle Physics

Sub Quantum Mechanism (SQM) independent to SpaceTime (IST) domain



Quantum Mechanism (QM) dependent to SpaceTime (DST) domain

Newly regarded as Basic Building Block of Universe located within SQM domain as Independent to SpaceTime (IST) boson massless particle of superposed Dependent to SpaceTime (DST) *Graviton* (4th Force giving **Gravitational effect**) pairing up with Independent to SpaceTime (IST) *Knownon* (our proposed 5th Force giving **Entanglement effect**) called as **DEF (duo-entity-force)**. DEF is somato-consciousness mediating particle (Knowledge Value (KV) of DEF = 10<sup>-38</sup> (Planck constant) CEF (CEF as measurement variable unit stands for Consciousness Element Factor) The existence of DEF discovered as implication of Top-Down (reversed engineering) mechanism applied to our Human System Biology-based Knowledge Management (HSB\_KM) model framework ( <http://t.co/Ri7IY8HP> )

### Limit of SpaceTime and Limit of E=MC<sup>2</sup>

Basic Building Block of Universe located within QM domain in the form of *Matter Particle (Fermion) carrier* and *Forces Particle (Boson) carrier* with *Higgs Boson* limiting the edge of QM domain

**Trans Disciplinary approach & Nature Knowledge based the proposed New Standard Model of Particle Physics**

**Particle Carrier** (Quantum Mechanics / QM)

**Wave Carrier** (Sub Quantum Mechanics /SQM)

**Solar System (High Energy Physics) oriented : (Quantum level)**

**Interstellar Galactic (Nature Knowledge) oriented : (Sub Quantum at Planck size level with IST dominated over DST)**

**Matter Particle (FERMION) carrier**      **Forces Particle (BOSON) carrier**

**SomaCon\* Mediating Wave = (DEF\*\*) carrier**

(DEF field is absolute space before (as Negative Energy) and after the BigBang (as Gravitational Wave)

\*SomaCon = Somato (Soma = body / corpus) Consciousness    \*\*DEF = duo-entity-force

**New Super Symmetry (SUSY) concept : balance between Particle Carrier with Wave Carrier**

	I	II	III	
mass →	2.4 MeV	1.27 GeV	171.2 GeV	0
charge →	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0
spin →	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
name →	<b>u</b> up	<b>c</b> charm	<b>t</b> top	<b>γ</b> photon
	4.8 MeV	104 MeV	4.2 GeV	0
	$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	0
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
<b>Quarks</b>	<b>d</b> down	<b>s</b> strange	<b>b</b> bottom	<b>g</b> gluon
	<2.2 eV	<0.17 MeV	<15.5 MeV	91.2 GeV <sup>0</sup>
	0	0	0	0
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
	<b>ν<sub>e</sub></b> electron neutrino	<b>ν<sub>μ</sub></b> muon neutrino	<b>ν<sub>τ</sub></b> tau neutrino	<b>Z</b> weak force
	0.511 MeV	105.7 MeV	1.777 GeV	80.4 GeV
	-1	-1	-1	± 1
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
<b>Leptons</b>	<b>e</b> electron	<b>μ</b> muon	<b>τ</b> tau	<b>W<sup>±</sup></b> weak force

**Bosons (Forces)**

- **DEF** comprised of superposed **Graviton** and **Known** (as we coined the name) as an entity
- **Graviton (G)** : the 4th Fundamental Force – Dependent to SpaceTime (DST) – **Gravitational effect**
- **Known (K)** : the 5th Fundamental Force – Independent to Space Time (IST) – **Entanglement effect**
- The existence of DEF discovered as implication of Top-Down (reversed engineering) mechanism applied to our **Human System Biology-based Knowledge Management (HSB\_KM)** model framework ( <http://t.co/Ri7IY8HP> )
- Top-down approach used in Cosmology to trace the histories of Universe backward from the present time (Stephen Hawking et-al, 2010). Basically it is **Qualitative Clarification Assessment (QCA)** instead of **Quantitative Verification Assessment (QVA)** as in High Energy Physics assessment
- Our main postulates saying ...**Consciousness is the attribute of Knowledge and Human Knowledge is integral part of Nature Knowledge continuum. Nature Knowledge is the third basic ingredient or fabric of the Universe besides Matter and Energy since the BigBang or even before the BigBang in the form of IST DEF...**
- Knowledge Management (KM) model framework as integrated collective tacit knowledge (collective mind brain as explicit knowledge) representing culture and value of people within organization assumed as **high-end Universe evolution model**
- There should be **consistent consciousness ("psycho") - somatic structure within high-end Universe evolution model as part of Nature Knowledge continuum to be reverse engineered toward quantum level.** In this circumstance is the constancy of human absolute value scaling ratio of three human loci as sources of human knowledge. We used Thurstone scaling technique to convert the formerly relative to absolute scaling ratio
- **Knowledge Value (KV)** measurement of DEF =  $10^{-38}$  (Planck constant) CEF (CEF as measurement variable unit stands for Consciousness Element Factor ranging from  $10^{-38}$  CEF through Infinite CEF within Nature Knowledge continuum). Essentially it is the **anthropic principle** which is based if we take human life as a given condition of the universe, we used this as the starting point to derive expected properties of the universe as being consistent with creating human life. Knowledge Value (KV) as Nature Knowledge metrics could becoming an important role in cosmology, specifically in trying to deal with the apparent **fine-tuning** of the universe - <http://tinyurl.com/pgjhfl7>
- Evidence based research driven and empirically verified ( <http://tinyurl.com/k3nuo6e> ), our HSB\_KM model through Top-down approach came up with **Nature Knowledge Theory (NKT)**, a new basic science within Hierarchy of Science
- **The advantages of DEF and NKT** : - Having potential to overcome the "Five Great Problems in Theoretical Physics" ( <http://tinyurl.com/q4c338> ), - With regard to its Planck constant level, NKT and/or DEF could enriched the String Theory, - NKT will complement Physics as basic science, - The main resource of DEF is interstellar galactic domain, the key to demystifying Dark Energy and Dark Matter, - Could establish Unified Field Theory and/or Theory of Everything (TOE) with regard to already included Gravity on main issue.

**Nature Knowledge Continuum** covering IST Sub Quantum Mechanics (SQM) to Quantum Mechanics (QM) toward Classical Mechanics (CM) with Human KV around 1.0 – 9.0 CEF

**From KV beyond human being at Infinite CEF**

→ **to KV =  $10^{-38}$  CEF as basic building block unit of Universe**



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