

FQXi Essay: "What is fundamental?"

TOPIC: Knowledge Base (KB) Access as Fundamental to Info Processor Intelligence

Note: .html version archived at:

[FQXi Essay: What is Fundamental?](#)

In that the FQXi "What is fundamental?" essay contest intent, specifically discourages submission of new proposals about "what some fundamental constituents of the universe are", much of my research, which utilizes UQS coordinate/matrices geometry to mathematically frame resolve of a fundamental constituent underlying all subsequent, is not directly applicable to the essay investigation.

However, the expressed essay intent to address "what fundamental means", warrants my input herein, with regard to the potential for information system issues and errors, inherent in evaluating fundamental hierarchies and/or relationships without resolve of a fundamental constituent underlying all subsequent.

In that the query "what is?", is an information retrieval algorithm, an information process is predicated in the discussion, and if we agree, at least for the duration of this essay, that the emergent/hierarchal implications of the word "fundamental" effectively constrain all subsequent modifiers by imposing a predicated on previous logic test, "fundamental" as a procedure to verify an unbroken kinematic logic chain, can be utilized to configure a Knowledge Base (KB) Directory Tree Structure of the information accessed by the info processor in an analysis of "What is fundamental?".

In that the product of a emergent/hierarchal analysis is traditionally configured as a visual Directory Tree Structure, a clear distinction must be made here, between a hierarchy/relationship tree configuration as product of an analysis, and the framed Knowledge Base (KB) Directory Tree configuration investigated by the analysis.

It is the framed/investigated Knowledge Base (KB) Directory Tree configuration, which I herein focus on, with intent to illustrate that one's perception of what fundamental means in regard to "... the different levels at which nature can be described, and the relations between them.", is dependent on the info structure, framed by the investigator, for search.

Even the most casual hacker is aware that info processor search algorithms are limited by directory access, and that an ERROR MSG: ACCESS DENIED, verifies a constrained Knowledge Base (KB).

An info query may be denied access to the Root Processor Source Directory for any of a number of reasons, but for whatever reason, any responsible investigator should be aware of any and all constraints, on Knowledge Base (KB) access, which may qualify the intelligence of the investigation, to include constraints imposed by one's own fears.

As visual verification of the Knowledge Base (KB) access qualifiers, required to evaluate the intelligence of any hierarchy/relationship determination, my simplistic examples of framed/searched Knowledge Base (KB) Directory structures, are not meant to be definitive, but are intentionally configured to emphasize the necessity for any responsible determination of "fundamental" to be inclusive of a concise visual form of the Knowledge

Base (KB) structure investigated/searched/consulted.

I utilize a standard, if somewhat archaic, directory notation, expanded to include //...//, meaning unknown or unspecified entries, between two entries, named or un-named, in the KB Navigation Bar... i.e. Root Directory Chain.

In response to "what is fundamental?", an investigation algorithm constrained within directory access as framed below, by the DIR1 Tree, can only investigate hierarchies/relationships in terms of **Physically** measureable properties... i.e. sound, light, electromagnetic potential, chemical reaction, quantum particle choreographies, etc.... but are all **PHENOMENA** processes **Physical**?

Example:DIR1

KB Navigation Bar: PHENOMENA:

- **Physical**
- . + **processes**
- . - **entities**
- . . + **description**
- . + **relationships**
- . .
- .
- .

The searched info structure, framed by the KB investigator, is fundamental to the intelligence that can be derived/extracted, but the investigator, as an Energy information processor, can utilize extracted intelligence to expand search concepts/algorithms, revise hierarchies/relationships, and if allowed, reconfigure the KB Root Directory Chain to facilitate re-frame of the KB Directory Tree.

The 1st. level expansion of DIR1 Root Directory Chain entry: **PHENOMENA**, is configured as an open folder: - **Physical**... and in that the descending dots below the folder name imply potential for subsequent entries, the curious investigator might be tempted to broaden an investigation of **Physical**.

PHENOMENA/Physical Energy info processors are established on **Physical** bit differentiation streams... i.e. sound, light, electromagnetic potential, chemical reaction, quantum particle choreographies, etc., and they can investigate what the DIR1 Directory entity type entries experience as **PHENOMENA**, but framing the conclusions/theories of that investigation in the DIR1 logic tree structure, may generate information processor errors.

Seated in a light vacuous room, with blindfold bag, and eyes closed, an Entity of type: tenacious investigator, wiggle's it's finger behind it's back, and motion is detected by tenacious investigator's info processor as a visually differentiated light and dark pattern variance... i.e. a Spatial unit is inferred.

By what **Physically** measureable Spatial unit can the detected motion be measured?

If the tenacious investigator can find, and enlist, a DIR1 verifiably chemically isolated co-investigator, to wiggle a finger, and the motion is not light vacuous detectable by the

tenacious investigator, then the **PHENOMENA** might be isolated and associated with the light deprived investigator's **Physical/process/info/chemical** in DIR1, but if a thorough and tenacious investigator cannot verify that all chemically stimulated info processes are constrained to a 120 year old conceptualization of a "fundamental" constant, previously recorded in the DIR1 framed KB Directory:

PHENOMENA/Physical/entities/electromagnetic/photon/descriptions/mathematical/2D geometry/ frequency/theoretical/Planck/, then Physical Spatial unit measurement of the wiggle motion can not be verified in the Knowledge Base (KB) DIR1 Tree.

Any possibility of an info **process** that can not be verifiably attributed to established **physical/processes**, suggest requirement for revision of the DIR1 Directory frame.

Although they are in many cases stimulated by **Physical/processes**, are mental info processes... i.e. conceptualization, realization, dreams, visualization, intuition, etc.... established on Metaphysical scale bit differentiated streams?

If the investigator has doubts that all **PHENOMENA** are **Physical**, in that the DIR1 Root Directory Chain is fully collapsed... i.e. does not specify: **//PHENOMENA//**... there is a visually programed tendency for the investigator to expand the **PHENOMINA** Directory as in DIR2, rather than expand or collapse the Root Directory Chain in the KB Navigation Bar.

In any case, a query such as "What is the Universal minimum Spatial unit of binary bit stream differential?", made from within a DIR1 constrained search algorithm, may receive ADVISO: "ADMIN MODERATION REQUEST FILED".

In response to "What is fundamental?", utilizing an investigation algorithm from within expanded access as shown in the DIR2 Tree frame below, thought and spirit may be attributed to **Metaphysical** scale binary bit stream info **processes**, and an investigator may bless co-investigator with "May the force be with you.", but no verifiable unity of all substance can be assigned without full Directory access to the Knowledge Base (KB) Root Processor... i.e. Computer for Cosmic Consciousness (CCC://)... in which consciousness, as the ability to perceive an initial binary differentiation, is fundamental to subsequent emergence of consciousness.

Example:DIR2

KB Navigation Bar://...// PHENOMENA:

- Physical

- . + **processes**
- . - **entities**
- . . + **description**
- . + **relationships**
- . .
- .
- .

- Metaphysical

- . + **processes**
- . - **entities**
- . . + **description**

- . + **relationships**
- . .
- . .
- . .

It may be that a gravity collapse concept preceded actualization/verification of a Black Hole **Physical/entity** observation, but that is not always the case.

Having merged **Physical**, as measureable, and **Metaphysical**, as conceptual, under KB Root Directory Chain: **PHENOMENA**, the question of invent or discover as applied to emergent/hierarchal determination, inherently emerges, and suggest that all **Physical** and all **Metaphysical** may have a fundamental commonality not resolvable within the DIR2 Tree frame... i.e. a concept that lies outside the DIR2 Directory inherently emerged from the merger.

Upon observation that all **Physical** and all **Metaphysical** may have a fundamental constituent not resolvable within the DIR2 Tree frame, the necessity for a more fundamental constituent underlying both, becomes apparent to the observant investigator... i.e. there is requirement for KB Root Directory Chain collapse.

In that in DIR2, the DIR1 Root Directory Chain has been modified as: // ...//**PHENOMENA**, speculation as to **SOURCE**, can emerge from the DIR2 Tree, but constrained to DIR2 Tree frame, a query such as "What is the Universal minimum unit of Information?", would receive **SEARCH MATCH = 0...** i.e. a minimum unit of Information can not be resolved if the KB Root Directory Chain can not be collapsed to an agreed minimum Quanta of Fundamental Information (QFI).

To explore potential for a minimum Quanta of Fundamental Information (QFI) to resolve "what is fundamental?" and give sustainable structure to the human Knowledge Base (KB), it will be necessary for the duration of this essay, to agree on the Knowledge Base (KB) entry logic form, for a minimum Quanta of Fundamental Information (QFI), as the binary boot differential for the Cosmic Consciousness Computer (CCC://).

Resolve of Black Holes as Energy Choreography Scale Transformers, in which a gravity collapse disassembles **Physical** scale entity choreographies of Energy information, freeing **Metaphysical** scale entity choreographies of Energy information, which a gravity collapse apparently has no influence upon, requires KB revision of any and all previous entries of Black Holes as gravity collapsed Universe Singularity Gates, and momentum for a revised Root Directory Chain as: **MULTIPLE UNIVERSES//...//PHENOMENA** has stalled, but the quest for a fundamental constituent underlying all subsequent has re-emerged, and motivates revision of the investigator's logic tree frame.

Example:DIR3

KB Navigation Bar:SINGLE SOURCE //...// PHENOMENA:

- **Metaphysical**
- . + **processes**
- . - **entities**
- . . + **description**
- . + **relationships**
- . .
- .

- .
 - **Physical**
 - . + **processes**
 - . - **entities**
 - . . + **description**
 - . + **relationships**
 - . .
 - .
 - .

In that the scientific investigator is motivated to reason from principle, a **SINGLE SOURCE//...//PHENOMENA** Root Directory Chain emerges in DIR3, and the quest for a fundamental constituent underlying all subsequent, once again necessitates that which has intimidated theoretical conceptualizations for longer than we have record... i.e. the resolve of Single Source Singularity Gate geometry.

If acknowledgement of the KB Root Processor is allowed, and open access to it's full SOURCE Directory is achieved, an info processor, with DIR3 Tree framed access, is likely to be motivated by the question "What is fundamental?", to investigate the potential for application upgrades to it's personal computing powers.

The hierarchies/relationships as illustrated in the DIR4 Tree structure below, have emerged as a result of twenty years, hacking/conceptualizing the Cosmic Consciousness Computer (CCC://)SOURCE Directory, with permissions supported/granted by the Unified Quantization of Spherical Singularity (UQS) geometry.

Invent?.. or discover?... in any case, I admit that I am tenaciously promoting conceptualization of the mathematics required for actualization of the Star Trek Replicator.

Example:DIR4

KB Navigation Bar:CCC://:

- **SOURCE**
 - **Processor Mechanix**
 - **bit differential (QFI)**
 - . - **emission/motion**
 - . - **minimum unit of Energy (QE)**
 - . . - **distribution**
 - . - **geometry**
 - . . - **singularity structure (UQS)**
 - . . + **minimum unit of Space (QI)**
 - . . .
 - . .
 - .
- **choreographies**
 - . - **phenomena**
 - . . + **metaphysical**
 - . . - **proto-physical**
 - . . + **physical**

. .
. .
.

- **processor clock**
- . - **bit stream pulse interval**
- . . + **minimum unit of Time (QT)**
- . . .
- . .
- .

- **Process Intelligence**
- . - **info processes**
- . . - **Intermittent Calculation State (ICS)**
- . . . - **minimum unit of Fundamental Intelligence (QFI)**
- . . . - **unity**
- . . . - **spontaneous harmonious resolve**
- . . . - **logic**
- . . + **Boolean**
- . + **paradoxical**
- .
- .
- .

- **mathematics**
- . - **geometry**
- . . - **Unified Quantization of Spherical**

Singularity (UQS)

- . . . - **Apps**
- . . + **Star Trek Replicator**
- . + **3D KB structure**
- .
- .
- .

- **Knowledge Base (KB)**
- . + **invent**
- . + **discover**
- . .
- .
- .

The Quanta of Fundamental Information (**QFI**) query process, as the Cosmic Consciousness Computer (**CCC://**) processor boot bit differential, is a fundamental element of any information processor... i.e. one can say that an information processor specific, minimum binary info differentiation, underlies the capabilities of any information processor.

In the DIR4 Tree frame above, the **CCC://** is established on a continuous pulsed stream of **QFI** scale/resolved differentiated binary bits, which are quantized on pulse 1, by the 6 sector UQS singularity geometry, as 24 fundamental minimum quanta of **Energy (QE)**.

REF: <http://www.youtube.com/watch?v=Sbzf6NIU8q4>

A fundamental Temporal interval as the minimum quanta of **Time (QT)** is established from continuous pulsed differential emergence in a manner similar to that which a conventional, continuous **physical** bit differential stream processor, establishes a system clock from an electric current source.

If a **QFI** scale binary differential bit is assigned a Spatially defined address/form, Space can be quantized/defined... i.e. given Spatial coordinate/matrices intelligence... by continuous minimum binary differential bit (**QFI**) emergence, in a manner analogous to that which a conventional, continuous **physical** bit differential stream processor, populates address value configurations of the **physical** representation of a logic structure, and utilizing valid spherical singularity geometry, the "I Am UQS" investigator can conceptualize precise Spatial assignment and Temporal interval required to initialize hand shake protocols with the **CCC://** binary differential bit stream.

Communication protocols negotiated, digital communication with the **CCC://**, develops in the same manner that any info processor develops communication with any binary differential bit stream... i.e. concisely state/configure query to extract info from, a specified relevant Spatial address, and relevant Temporal interval framed, binary reply.

It is not that something is being created from nothing, it is that undifferentiated potential information is being differentiated as minimum units of Space/Energy/Time/Information, and the only "limit" imposed by the info system, on communication access... i.e. "understanding"... is that the binary query be tuned to Space/Energy/Time/Information bit differentiation process scale, associated/applicable to info unknown... i.e. to "know" yes/no, if **physical** scale Energy, in information form: "Erwin's cat", is in the box, one must **physically** inspect/access a Spatially relevant... i.e. **physical**... box, in a specified relevant Temporal interval.

Given a Spatial emergence function/process, a virtual Spatially measureable form can be generated in a digital CAD environment, and application of traditional Spatial geometry manipulation procedures facilitate a virtual view of concept... i.e. one can "see" concept as a virtual visual geometry representation.

In this manner, it can be shown that the point **SOURCE** of **QFI** continuous differential emergence must be centroid of a spherical singularity that defines/supports/generates a successful differential bit stream distribution process, and a unified minimum unit of Spatial differentiation (**QI**), as defined by the singularity geometry, underlies all subsequent form... i.e. all single minimum unit Spatial addresses (**QI**) are of unified geometry, in a precise manner currently not achievable in silicon, or any other **physically** resolved substance. REF: www.uqsmatrixmechanix.com/UQSConInv.php

Virtual process analysis, utilizing current digital animation tools, has greatly facilitated hierarchy/relationship revisions and concept development as mandated by digitally simulated system emergence, and by our "predicated on previous" logic test agreement above, **...//phenomena/metaphysical** can be differentiated from **...//phenomena//physical**.

The only restriction on lateral relationships in the KB structure, is verification of an unbroken kinematic logic chain, from any entry, to **SOURCE**... i.e. there can be no

unverifiable //.../// in the navigation bar... and to map a fully expanded **CCC://SOURCE/Knowledge Base (KB)** tree structure as a visual Spatial form, may require a 3D spherical singularity unified unit quantization geometry... i.e. is it possible that on a **metaphysical** bit stream channel, our tenacious investigator's info processor can access a virtual SIM, of tenacious investigator's finger wiggle in the dark?

If a DIR4 investigator runs a thread trace on: **SOURCE/Process Intelligence/Info processes/ICS/QFI/unity/spontaneous harmonious resolve/math/geometry/UQS/Apps**, and expands the folder: + **Star Trek Replicator**, the investigator will discover a concept for Star Trek Replicator actualization mathematics has already been entered in the **QFI** Directory ... i.e. no invention required, but grad student thesis focus is solicited herein.

The conclusions at which he arrives in his calculations, depend upon the foundation or principle from which he moves." ~ B.T. Spalding

SUMMARY:

To summarize potential for information system issues and errors, inherent in evaluating fundamental hierarchies/relationships without resolve of a fundamental constituent underlying all subsequent, I direct the reader's attention, to the World Science Festival "Limits of Understanding" video, and to please note this is not an advertisement... i.e. it is a FREE YouTube vid-bit stream. REF: <https://www.youtube.com/watch?v=DfY-DRsE86s>

Apparently the World Science Festival, professionally credentialed, discussion panel, are constrained to a KB Directory frame in which limitations entered in the 1920's can not be resolved, and the four agree that the foundations of **logic** and **mathematics**, and consequently **physics** are unstable.

When in the final moments of the discussion, each panelist was queried by the host as to the most significant current limit of human understanding, Space Telescope Science Institute Theoretical Astrophysicist, Dr. Mario Livio, replied: "...we can not know what is fundamental." ... i.e. ERROR MSG: ACCESS DENIED... and any alert investigator should immediately recognize that Mario's search algorithms are verifiably constrained.

In that Dr. Livio's assertion that an inability to "... know what is fundamental" limits human understanding, is it possible that if one can know what is fundamental, there would be no limitation on one's understanding?

High stakes indeed, and a reliable determination should be made as to whether Dr. Livio's search algorithms are constrained to a Knowledge Base (KB) frame that does not support a resolved Spherical Singularity Gate geometry, which understandably any theoretical physicist, mathematician, or logician would require to verify fundamental constituent as underlying all subsequent.

In that the concept of Spherical Singularity Gate has been given valid Spatial geometry form, and mathematically constructed in a digital CAD environment... REF: <http://www.uqsmatrixmechanix.com/UQST-TVNH.php> ... our mathematicians and theoreticians can now digitally "see" and thus virtually "know" a minimum Quanta of Fundamental Information (**QFI**) as constituent underlying all subsequent.

In regard to the advantages inherent in knowledge development as a consequence of evaluating fundamental hierarchies/relationships utilizing a fundamental constituent underlying all subsequent, if the Science community, as providers of institutionalized media disseminated knowledge for the masses, can acknowledge the possibility that established hierarchy/relationship development procedures resulting in knowledge of unreliable intelligence, perpetrate the current lack of verifiable knowledge induced dependency on **physical processes**, that is fueling/promoting societal havoc, it is quite possible such conditions can be alleviated by developing/allowing a searchable/accessible Knowledge Base (KB), which supports **unity** in the Directory Tree framed.

I applaud the FQXi promotion of an essay contest which motivates analysis of established hierarchy/relationship development procedures, and I am encouraged by the emergence of professional scientist independently publishing YouTube vids which promote re-structure of a Knowledge Base (KB), that verifies **unity**.

In regard to FQXi essay administration expressed solicitation for "... explorations, from detailed worked examples through thoughtful rumination, of the different levels at which nature can be described, and the relations between them.", in that all entries in the CCC:// Root Directory have verifiable path to **SOURCE**, one can utilize "analogous" to establish a lateral logic relationship between the collapse of gravity to a Black Hole, as an Energy Choreography Scale Transformer, from which emerges a structural scale change in **Energy** information, and the collapse of the KB Root Directory Chain to CCC://, as an Info Process Scale Transformer, from which emerges a structural change in human consciousness, as a more fundamental info process bit differentiation scale.

An investigative info processor, utilizing **QFI** scale... i.e. CCC:// **SOURCE** resolved... bit stream processes, can establish information exchange that lies outside combative **physical** dependencies, and by allowing, if only for duration of this essay, the existence of the above CCC:// Directory structure, the reader and I can utilize a conceptual logic form for a system of intelligence between us, in which our **unity** is inherent in a common **SOURCE**.
REF: www.uqsmatrixmechanix.com/UQSConInv.php

Date: 2017/12/01

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